

THE U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES  
PUBLIC HEALTH SERVICE  
CENTERS FOR DISEASE CONTROL AND PREVENTION  
NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH

convenes the

WORKING GROUP MEETING

ADVISORY BOARD ON

RADIATION AND WORKER HEALTH

ABRWH WORKING GROUP MEETING

The verbatim transcript of the Working Group Meeting of the Advisory Board on Radiation and Worker Health held at the Cincinnati Airport Marriott, Hebron, Kentucky, on February 13, 2006.

C O N T E N T S

February 13, 2006

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### TRANSCRIPT LEGEND

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-- "\*" denotes a spelling based on phonetics, without reference available.

-- (inaudible)/ (unintelligible) signifies speaker failure, usually failure to use a microphone.

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

(8:00 a.m.)

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**DR. WADE:** We should begin. This is Lew Wade. This is a meeting of the working group of the Advisory Board. This is a working group that looks at a variety of things, including individual dose reconstruction reviews, some site profile reviews and procedures reviews. The announced purpose of this working group meeting is to focus on procedures -- procedure reviews and individual dose reconstruction reviews, so those are the topics I think we can stick to.

We do need to talk about, you know, future scheduling of meetings and we'll do that at the end of this call.

Maybe we can start here in Cincinnati and identify who's around the table. This is Lew Wade, the Designated Federal Official.

**MR. HINNEFELD:** Stu Hinnefeld with NIOSH in Cincinnati.

**MR. ALLEN:** Dave Allen with NIOSH.

**MR. TOMES:** Tom Tomes with NIOSH.

**MS. MUNN:** Wanda Munn with the Board.

**DR. NETON:** Jim Neton with NIOSH.

**MS. ROBERTSON-DEMERS:** Kathy Robertson-DeMers

1 with SC&A.

2 **MS. BEHLING:** Kathy Behling with SC&A.

3 **DR. BEHLING:** Hans Behling, SC&A.

4 **DR. WADE:** And on the phone line we have?

5 **MR. GRIFFON:** Mark Griffon with the Board.

6 **MR. GIBSON:** Mike Gibson with the Board.

7 **DR. MAURO:** John Mauro with SC&A.

8 **MR. KOTSCH:** Jeff Kotsch with DOL.

9 **DR. WADE:** And no Robert Presley yet. Okay.  
10 Well, we're not -- we're not in search of a  
11 quorum, so we can begin our deliberations.  
12 This august working group is chaired by Mark,  
13 so Mark, any instructions or direction from  
14 you?

15 **MR. GRIFFON:** No, I mean I think it's -- it'll  
16 probably be a little difficult for me to -- to  
17 chair things from the phone, but we'll -- I  
18 guess we'll -- we'll be able to move through  
19 this. But I think we were going to start with  
20 the procedures review and possibly -- I talked  
21 to Kathy and Hans a little bit, and possibly  
22 might want to start with the CATI review  
23 section first, depending on -- on whether Joyce  
24 is on the phone yet, but I think we were  
25 planning on doing the CATI review section first

1 and then move into the internal dose  
2 procedures, and then go forward from there to  
3 the case reviews.

4 **MS. BEHLING:** That's correct.

5 **DR. WADE:** Okay.

6 **MS. MUNN:** So we're on page 27.

7 **MS. BEHLING:** Yes.

8 **DR. WADE:** How do you want to proceed? Do you  
9 want NIOSH to deliver their response or...

10 **MR. GRIFFON:** Yeah, I think that makes the most  
11 sense, if -- if NIOSH can --

12 **DR. WADE:** Okay, Stu, I guess --

13 **MR. GRIFFON:** -- just introduce their response,  
14 then --

15 **DR. WADE:** -- you'll be doing the talking?

16 **MR. GRIFFON:** -- we can discuss it, maybe.

17 **MR. HINNEFELD:** Yeah, I'll -- I'll do the  
18 talking I guess --

19 **MR. GRIFFON:** Yeah.

20 **MR. HINNEFELD:** -- for the most part, for NIOSH  
21 -- at least in this portion.

22 The -- well, the first finding for -- this is  
23 Procedure No. 4, which is one of the interview  
24 procedures, interview procedures. As captured  
25 in the matrix is that the interview letter sent

1 out -- is sent out without adequate dose  
2 reconstruction information. And I guess we  
3 have a fair amount of information to provide on  
4 this. I think some of the -- some of the  
5 comments that were made in this finding,  
6 although they're not captured in the finding  
7 description, had to do with sort of the --  
8 there's a sort of course of nature of  
9 attachment that went with the letter to the --  
10 the CATI letter that went to the claimant  
11 before they -- before they have the interview,  
12 and it kind of gave the impression that the  
13 interview was sort of this do or die thing,  
14 there's some -- there's some quotes farther --  
15 farther back in our response, and we did in  
16 fact -- that language has in fact been changed.  
17 It's been changed for quite some time and it's  
18 a little milder now in the attachment. It  
19 doesn't try to -- we're hoping does not instill  
20 this anxiety in the claimant, which I think  
21 rightfully was mentioned in the -- in the  
22 comment. And so we think we've modified that  
23 language in that letter some time ago so that  
24 it's a little less anxiety-producing to the  
25 claimant, so...

1           And then the second comment had to do with the  
2           amount of preparation, and I think there's some  
3           -- some merit there, but we think that probably  
4           the preparation and information to the claimant  
5           is better provided at the acknowledgement  
6           letter. There's an acknowledgement letter that  
7           we send to the claimant when we first receive  
8           the claim from -- from Labor. And that  
9           acknowledgement letter contains some  
10          information -- what it contains right now is a  
11          cover letter and then the one fact sheet -- or  
12          a couple of fact sheets about what a claimant  
13          should know about radiation dose  
14          reconstruction, and then sort of a flow chart  
15          on how it goes -- how the process goes. In  
16          fact, we've been engaged in an initiative to  
17          have an acknowledgement packet which contains  
18          considerably more information.  
19          I'm showing this, for those of you on the  
20          phone. It's a packet that includes the letter  
21          and probably four or five handouts, including a  
22          glossary and several pieces of information that  
23          we hope will provide better insight into the --  
24          to the employee. Now I didn't make these to  
25          hand out because this is the draft and it's

1           being rewritten. It's being revised based upon  
2           our internal review, so it's timely time for us  
3           to take some of this information from these  
4           comments and make -- and see if we can  
5           incorporate it into this material readily. So  
6           I think there are a couple of things we can do  
7           -- well, one -- one thing we've already done.  
8           The second thing we can already do in the  
9           acknowledgement -- at the acknowledgement stage  
10          that provides better information to the  
11          claimant about what goes on with the process,  
12          overestimating techniques, things like that.

13       **MS. MUNN:** Stu, this is Wanda. Even though you  
14       haven't had -- I wouldn't have expected you to  
15       keep data on this sort of thing. Do you have  
16       the feeling that you're getting fewer negative  
17       bits of feedback from the claimant since you've  
18       revised your -- the tone of your letter a  
19       little? Can you tell? Was it too --

20       **MR. HINNEFELD:** Well, I can only speak  
21       anecdotally. I mean that was -- that was  
22       revised very -- you know, about the time I  
23       started in the program, really. I mean it was  
24       revised quite some time ago.

25       **MS. MUNN:** That was a long time ago.

1           **MR. HINNEFELD:** Yeah, it was revised quite some  
2           time ago. And so I don't have -- you know,  
3           other than anecdotally -- I do know I was  
4           approached -- before I ever started with NIOSH,  
5           I was -- you know, since I worked at Fernald, I  
6           was approached by people who had received  
7           letters --

8           **MS. MUNN:** Uh-huh.

9           **MR. HINNEFELD:** -- claimants had these received  
10          these letters and said how in the world can I  
11          answer this?

12          **MS. MUNN:** Yeah, yeah.

13          **MR. HINNEFELD:** And so there was certainly some  
14          anxiety on the part of the claimants based on -  
15          - this seemed to be -- like this is key; if you  
16          mess this up, you don't have a chance -- you  
17          know, your claim doesn't have a chance --

18          **MS. MUNN:** Yeah.

19          **MR. HINNEFELD:** -- was sort of the impression  
20          they got. And so I would think that the  
21          current language would be better, and -- and I  
22          don't -- I don't necessari-- I haven't really  
23          heard any complaints or any large body of  
24          complaints about that aspect of the letter --  
25          you know, how -- if it makes them feel anxious

1 or not, the way it used to. But it would be  
2 only anecdotal. I mean the -- we don't -- that  
3 doesn't seem to be the complaint we get and --  
4 now.

5 **MS. MUNN:** I'd appreciate having an opportunity  
6 to take a look at the packet you're going to  
7 send out, because one of the -- one of my  
8 concerns is that in our attempt to ameliorate  
9 the errors that we saw up front, we don't go  
10 too far the other way and overload people with  
11 so much information that they feel overwhelmed.  
12 My personal observation has been that many  
13 people, even who work in the industry for long  
14 periods of time, still don't really have a firm  
15 idea of what the terminology means --

16 **MR. HINNEFELD:** Right.

17 **MS. MUNN:** -- and what's -- if -- if what's in  
18 your packet is -- I guess I am expressing a  
19 mild concern that we not overload them with too  
20 much information, which is almost as bad as  
21 telling them they only have one chance anyway.

22 **MR. HINNEFELD:** Right. Let me provide these --  
23 I mean everybody's free to look at these.  
24 Recognize that the packet has been commented on  
25 significantly on the internal review, and I

1 don't know what the nature of those comments --  
2 I haven't seen the comments. I was just told  
3 that it's going to be revised considerably  
4 based on the comments on the internal review,  
5 and I don't know the nature of those comments.  
6 But we have significant comments, a few more  
7 from this body probably wouldn't hurt and --  
8 you know, that I can take back as my comments  
9 on this packet, so --

10 **MS. ROBERTSON-DEMERS:** This is Kathy DeMers. I  
11 would also like to look at a copy of the  
12 packet.

13 **MR. HINNEFELD:** Why don't we just look at this  
14 one, if that's okay, while we're here then.

15 **MS. MUNN:** Yeah.

16 **MR. HINNEFELD:** 'Cause I just picked up the  
17 one. Like I said, it's a draft. It's really  
18 not for distribution, but since we're com-- we  
19 have commented on it internally, I don't think  
20 it would be a problem to take back more  
21 comments.

22 **MS. MUNN:** Sure a lot of stuff here.

23 **MR. HINNEFELD:** Yeah.

24 **MS. BEHLING:** Can I ask him if this -- this is  
25 Kathy Behling. Can I ask him if this

1 information will ultimately be put on the web  
2 site, also, for the claimants?

3 **MR. HINNEFELD:** I don't know, I'll have to ask.  
4 I don't necessarily control that part and I  
5 haven't really thought about whether this  
6 information is appropriate to the web site or  
7 not. It might be, but I haven't really  
8 thought...

9 **MS. BEHLING:** I think from SC&A's standpoint --  
10 again, this is Kathy Behling -- we are in  
11 agreement that the letter has been modified.

12 **MR. HINNEFELD:** Okay.

13 **MS. ROBERTSON-DEMERS:** I guess before signing  
14 off on it, I'd like to see the packet.

15 **MR. HINNEFELD:** Well, it -- I mean we're --  
16 we're obliged to provide the packet. I mean  
17 we're embarked on providing the packet and  
18 we'll -- we'll provide probably the final  
19 version then, you know, rather than this draft  
20 version.

21 **MR. GRIFFON:** Hello?

22 **MS. MUNN:** Uh-huh, yeah?

23 **MR. GRIFFON:** Hi, it's Mark Griffon.

24 **MS. MUNN:** I'm reading. Would you like me to  
25 read out loud, Mark?

1           **MR. GRIFFON:** No, that's okay. I got  
2           disconnected and I'm -- I'm dialing in again,  
3           that's why.

4           **MS. MUNN:** Oh, you're -- you're back?

5           **MR. GRIFFON:** Yeah, I'm back. I'm off to a  
6           roaring start here on the phone.

7           **MS. MUNN:** Well, I'm occupying time here by --  
8           everybody's time here by thumbing through the  
9           packet --

10          **MR. GRIFFON:** Oh, okay.

11          **MS. MUNN:** -- that's being --

12          **DR. WADE:** Stu, could you --

13          **MS. MUNN:** -- put together for these folks.

14          **DR. WADE:** Stu, could you just tell the story  
15          of the packet again, just in case Mark didn't  
16          hear it?

17          **MR. HINNEFELD:** Yeah, Mark, the --

18          **MR. GRIFFON:** Yeah, please.

19          **MR. HINNEFELD:** With -- the comment relates to  
20          the inf-- the amount of information provided to  
21          the claimant with the CATI letter, when they're  
22          sent their letter arranging it, and -- and we  
23          feel like there's a better opportunity to  
24          provide that type of information, which is at  
25          the time of acknowledgement, and that's when we

1 receive the let-- when we receive a claim from  
2 the Department of Labor, we send an  
3 acknowledgement letter to the claimant telling  
4 them they have a -- we have their claim and  
5 kind of describing to them what will happen.  
6 And so we're actually changing from the  
7 acknowledgement letter with a couple of flyers  
8 inserted to a packet that has a number of  
9 flyers, including a glossary and several pieces  
10 of information. And so we believe that it --  
11 that would be the better time to provide some  
12 of this information about what's going to  
13 happen with dose reconstruction, rather than at  
14 the CATI -- CATI stage. And --

15 **MR. GRIFFON:** Okay, yeah, I saw reference to  
16 that, too, and I wasn't sure what exactly --

17 **MS. MUNN:** What Wanda's looking at is a draft  
18 version of that packet, which is really draft  
19 because it's been commented on pretty  
20 considerably internally, but I thought we could  
21 -- if there are additional comments on it from  
22 here, I can make it part of the internal  
23 comments and address it in the final version.

24 **MS. MUNN:** And Mark, I had said that my concern  
25 was that we not overload the client with too

1 much stuff because that is almost sure to raise  
2 as many issues as scaring him to death does.

3 **MR. GRIFFON:** Yeah, it just -- it may defeat  
4 the purpose, but -- yeah.

5 **MS. MUNN:** Yeah, this packet that I'm looking  
6 at is in a very nice folder. On the right side  
7 is a two-page letter from DHHS and NIOSH to  
8 them, and on the left-hand side there is a  
9 review of the claims process under the Act --  
10 that's one sheet; a small booklet that's a  
11 glossary of terms, another sheet that's a  
12 detailed steps in the claims process under the  
13 Act, another page of dose reconstruction FAQs,  
14 and a sheet entitled "Employment and Cancer  
15 History as Reported by the Department of  
16 Labor". And is that going to be an individual  
17 --

18 **MR. HINNEFELD:** Yes.

19 **MS. MUNN:** -- thing?

20 **MR. HINNEFELD:** Yes.

21 **MR. GRIFFON:** Now is this something, Stu, that  
22 we can review -- I mean I know that we've sort  
23 of said that Proc. 90 is replacing these other  
24 procedures for the CATI, but this wouldn't  
25 really be part of Proc. 90, would it? This

1 would all come before --

2 **MR. HINNEFELD:** This actually becomes before  
3 any of the CATI procedures, yeah.

4 **MR. GRIFFON:** Before the CATI stuff, yeah.

5 **MS. MUNN:** Oh, and then there's --

6 **MR. GRIFFON:** I'm just wondering, not having  
7 this in front of me, I -- I think it is  
8 probably -- 'cause I think the most important  
9 thing that we -- we brought up, anyway -- was  
10 the question of -- of being very clear about  
11 the efficiency methods and those kind of things  
12 'cause that's created some confusion I think  
13 already amongst --

14 **MR. HINNEFELD:** Right.

15 **MR. GRIFFON:** -- people that have their reports  
16 back.

17 **MR. HINNEFELD:** Right.

18 **MR. GRIFFON:** And that's in this -- this  
19 package, is that --

20 **MR. HINNEFELD:** Well, we can make it there.  
21 Like I said, it's under -- it's in internal  
22 comment, and I think --

23 **MR. GRIFFON:** Oh, okay.

24 **MR. HINNEFELD:** -- that the comments from this  
25 -- this finding and from this set of findings

1 on these procedures, we need to make sure we  
2 address, to the extent we can, in this packet.

3 **DR. WADE:** Okay, so Stu, are we in a position  
4 then to deliver the packet to each member of  
5 the working group and then formally to SC&A?

6 **MR. HINNEFELD:** Well, this part of our work is  
7 not really under my control particularly. It's  
8 communications team's work, and so I hate to  
9 commit to those sorts of things.

10 **DR. WADE:** Okay, so I'll take on that task of -  
11 - of discussing it with the communications team  
12 and unless you hear from me otherwise I would  
13 expect that we would share this with the  
14 working group as well as with SC&A and accept  
15 comment back from those folks.

16 **MS. MUNN:** There really is a lot of stuff  
17 there.

18 **MR. GRIFFON:** Yeah.

19 **MS. MUNN:** And in addition to what I just  
20 enumerated, Mark, there's also an envelope that  
21 contains --

22 **MR. HINNEFELD:** Well, no, that's -- that's what  
23 we're currently doing. The envelope is now.

24 **MS. MUNN:** Ah, okay.

25 **MR. HINNEFELD:** The --

1           **MS. MUNN:** That wasn't clear to me.

2           **MR. HINNEFELD:** Yeah, I'm sorry, the envelope  
3 is now; the folder is what we hope to do.

4           **MS. MUNN:** Is what you propose, okay.

5           **DR. BEHLING:** Is the letter that's sent the  
6 same whether the individual is the worker  
7 himself or a member of the family of the  
8 deceased worker? And I think one of the common  
9 complaints is that questions might be readily  
10 answered if the claimant was the worker, but  
11 certainly more difficult if the individual is a  
12 survivor where many of that -- much of that  
13 information simply is not available to that  
14 individual.

15           **MR. HINNEFELD:** The questionnaire is different.  
16 I don't know off-hand if the cover letter is or  
17 not -- meaning the CATI --

18           **DR. BEHLING:** Yes.

19           **MR. HINNEFELD:** -- the CATI questionnaire is  
20 different.

21           **DR. NETON:** Not substantively, though. I mean  
22 it's the same line of questioning, just sort of  
23 in the third person almost I think --

24           **MR. HINNEFELD:** Yeah.

25           **MS. MUNN:** Still trying to get to the same

1 information.

2 **DR. NETON:** The idea there is that you really  
3 can't a priori know the level or anticipate the  
4 level of detail that the survivor would be  
5 aware of. I mean, you know, coworkers or  
6 something.

7 **MS. MUNN:** Yeah.

8 **MR. HINNEFELD:** It's also a fact I think that  
9 if you have a -- if you have a survivor  
10 claimant, there is going to be less knowledge  
11 about the work environment, and nothing we can  
12 do is going to change that.

13 **DR. NETON:** I understand that, but you know,  
14 you can't tailor the survey to that person --

15 **MR. HINNEFELD:** Oh, no, I understand --

16 **DR. NETON:** -- you need to afford them the  
17 opportunity to answer all the detailed  
18 questions they want. I think the communication  
19 piece is that we don't expect that you're going  
20 to know all this information, but in case you  
21 do, you know, we're asking these --

22 **MS. MUNN:** Yeah.

23 **DR. NETON:** -- and you might -- your claim  
24 won't be prejudiced by not knowing  
25 (unintelligible).

1           **MS. MUNN:** Yeah.

2           **MR. HINNEFELD:** My comment was really more  
3 addressed to other comments that are coming  
4 later on in this -- in the procedure review  
5 about the process. In fact, it's the next  
6 comment if we're ready to move on to the next  
7 comment.

8           **DR. WADE:** Okay, so the action item on this  
9 comment will be I'll discuss with the  
10 appropriate people the possibility of getting  
11 this folder to the working group and SC&A for  
12 comment.

13          **MS. MUNN:** Thank you, Lew.

14          **MR. PRESLEY:** Good morning, this is Bob  
15 Presley.

16          **MS. MUNN:** Well, good morning, Mr. No-back, how  
17 are you?

18          **MR. PRESLEY:** Well, I'm here.

19          **MS. MUNN:** Well, sorry to hear you're ailing.

20          **MR. PRESLEY:** Yeah, well, I am, too.

21          **DR. WADE:** Why don't we identify ourselves  
22 involved in the call for Mr. Presley's benefit.  
23 This is Lew Wade with NIOSH.

24          **MR. HINNEFELD:** Stu Hinnefeld with NIOSH.

25          **MR. ALLEN:** Dave Allen with NIOSH.

1           **MR. TOMES:** Tom Tomes with NIOSH.

2           **MS. MUNN:** Wanda's here.

3           **MR. PRESLEY:** Okay.

4           **DR. NETON:** Jim Neton, NIOSH.

5           **MS. ROBERTSON-DEMERS:** Kathy DeMers, SC&A.

6           **MS. BEHLING:** Kathy Behling, SC&A.

7           **DR. BEHLING:** Hans Behling, SC&A.

8           **DR. WADE:** And on the phone line we have?

9           **MR. GRIFFON:** Mark Griffon with the Board.

10          **MR. GIBSON:** Mike --

11          **MR. PRESLEY:** Morning, Mark.

12          **MR. GIBSON:** Mike Gibson with the Board.

13          **MR. PRESLEY:** Good morning, Mike.

14          **MR. GIBSON:** Hi, Bob.

15          **DR. MAURO:** John Mauro, SC&A.

16          **DR. WADE:** Is Jeff still with us?

17          **MR. KOTSCH:** Yeah, I'm still here, I'm sorry.

18          **MR. PRESLEY:** Okay.

19          **DR. WADE:** Okay, so that's us, Robert. We're -

20          - we're just starting with the inter-- with the

21          review procedures and we started, if you have

22          your paper in front of you, on page 27 with the

23          interview process documents and that finding.

24          And the summary of that discussion is that

25          NIOSH is contemplating a different

1           communications package and I'm going to work  
2           with NIOSH to share that package with the  
3           working group and SC&A, and NIOSH willingly  
4           accept their comments.

5           **MR. PRESLEY:** Okay.

6           **MR. GRIFFON:** So if we were -- and I -- I  
7           apologize 'cause I went off the call for a few  
8           minutes there. We were looking at Proc. 4 dash  
9           -- finding -- finding number Proc. 4-01?

10          **MR. HINNEFELD:** Yes.

11          **MS. MUNN:** Uh-huh, yes.

12          **MR. GRIFFON:** And so their response right now  
13          is that some of that language has been moved  
14          from the -- moved and is now going to be  
15          addressed in this new package that Stu's  
16          talking about. Right?

17          **MR. HINNEFELD:** Well, kind of. I don't know  
18          that there's a lot of language in the existing  
19          CATI letter that's going to be moved to the  
20          acknowledgement letter. I mean we've always  
21          sent an acknowledgement letter. The fact --  
22          what we're saying is that the acknowledgement  
23          letter -- information provided with the  
24          acknowledgement letter will be expanded to  
25          hope-- to achieve some of this discussion about

1 providing better information to the claimant.  
2 And we've got -- you know, doing it at the  
3 acknowledgement part is what we -- where we  
4 felt like it would be a better part to do it,  
5 the acknowledgement letter.

6 **MR. GRIFFON:** Oh, okay, I'm looking on down in  
7 the response, it says --

8 **MR. HINNEFELD:** Now we did --

9 **MR. GRIFFON:** -- the overriding message is that  
10 these passage --

11 **MR. HINNEFELD:** Right.

12 **MR. GRIFFON:** -- place undue stress on the  
13 claimant --

14 **MR. HINNEFELD:** With respect to --

15 **MR. GRIFFON:** -- and they were deleted.  
16 Right?

17 **MR. HINNEFELD:** That -- that language has been  
18 deleted from --

19 **MR. GRIFFON:** Okay.

20 **MR. HINNEFELD:** -- from the CATI letter -- it's  
21 actually an attachment to the CATI letter --  
22 and it's been substituted with other language,  
23 which is significantly less coercive, in my  
24 mind.

25 **MR. GRIFFON:** Okay.

1           **MS. MUNN:** Apparently that was done a long time  
2 ago, Mark.

3           **MR. HINNEFELD:** Yeah, that was done quite some  
4 time ago.

5           **MR. GRIFFON:** Yeah, but -- but after I guess  
6 SC&A was reviewing a prior version. Correct?  
7 A version before that?

8           **MR. HINNEFELD:** Yes.

9           **MR. GRIFFON:** So I guess two -- two questions,  
10 do we need to review the updated version of the  
11 CATI letter, and also this acknowledgement  
12 package?

13           **MR. HINNEFELD:** Well, Lew said that the  
14 acknowledgement packet will go out to -- he can  
15 get it sent out to the members. I'm trying to  
16 recall if I've got the new attachment with me  
17 or not. I don't think I do. It's -- or I  
18 don't know if I quoted it in here or not.

19           **DR. WADE:** We'll package it all up and send it  
20 out.

21           **MR. GRIFFON:** But then the second part is that  
22 this -- this -- what -- what we originally  
23 reviewed -- what SC&A reviewed has been  
24 modified, but we haven't reviewed the  
25 modification.

1           **MR. HINNEFELD:** Yeah, that's -- we'll -- I can  
2           send that. I didn't think I -- I don't think I  
3           brought it today, unfortunately.

4           **MR. GRIFFON:** I think that probably is our --  
5           is a follow-up action on this.

6           **MS. MUNN:** Yeah.

7           **DR. WADE:** Correct.

8           **MS. MUNN:** Lew's going to handle that for us.

9           **MR. GRIFFON:** Okay.

10          **MR. HINNEFELD:** Okay. I think we're now maybe  
11          ready for finding number two on Proc. 04 --

12          **MS. MUNN:** Uh-huh.

13          **MR. HINNEFELD:** -- which is letter lacking in  
14          essential content, especially for family member  
15          claimants. And I guess that we think that  
16          trying to -- I guess we think that it's  
17          appropriate. You know, the amount of  
18          information provided or at least that will be  
19          provided with the acknowledgement letter is --  
20          is appropriate. I don't think we can remedy  
21          the disparity of knowledge in a meaningful  
22          fashion -- you know, the disparity of knowledge  
23          between a claimant survivor and an energy -- an  
24          EE surv-- an EE claimant, so I don't know that  
25          we can remedy that. I don't think there's

1 anything we can do that can remedy that. We --  
2 as a general rule, at CATI time we don't  
3 necessarily try to inform the claimant all that  
4 much. We try to get the claimant to tell us  
5 what the claimant knows based on -- you know,  
6 about -- that would affect their work  
7 environment or aspects of their work  
8 environment, and we don't necessarily take it  
9 upon ourselves to try to inform them. That's  
10 what we've done.

11 **MS. MUNN:** And this enhanced packet that we  
12 have will have -- obviously contains in it, as  
13 -- as I -- as it exists now in the draft form,  
14 all of the information that we have with  
15 respect to medical background for the claimant  
16 anyway.

17 **MR. HINNEFELD:** Right, it contains some  
18 specific stuff. It will not -- it will not  
19 provide things like this is what we know about  
20 the Y-12 plant so that you can understand more  
21 about where your husband --

22 **MS. MUNN:** No.

23 **MR. HINNEFELD:** -- worked and stuff like that.

24 **MS. MUNN:** No.

25 **MR. HINNEFELD:** It's not going to do that.

1           **MS. MUNN:** Well --

2           **MR. HINNEFELD:** And -- and we don't --

3           **MS. MUNN:** -- it shouldn't, really.

4           **MR. HINNEFELD:** -- our position is we don't  
5           feel that that is what we're trying to  
6           accomplish on these interviews.

7           **MS. MUNN:** Agreed.

8           **DR. BEHLING:** Is there ever a time when the  
9           claimant has some understanding about the  
10          natural incidence of cancer that gives him some  
11          sense of perspective that radiation is clearly  
12          not the only -- in fact not even the most  
13          dominant cause of cancer? I think sometimes  
14          people are under the impression that radiation  
15          is the principal, if not the exclusive, cause  
16          of human cancer. And I think it would help  
17          them to understand that cancer is a very  
18          ubiquitous disease that affects all members of  
19          the population.

20          **MR. HINNEFELD:** I don't know that any of our  
21          communication material does that.

22          **MS. MUNN:** And that's -- that has been one of  
23          my concerns from the outset of this entire  
24          program, is that lacking basic information  
25          about what the general population can expect in

1 terms of these kinds of diseases, claimants are  
2 naturally constrained to move to the assumption  
3 that they would not have been subjected to this  
4 kind of physical insult had it not been for the  
5 occupation that they had chosen. And that's --  
6 it seems un-- has always seemed unrealistic to  
7 me, and I know some of the Board members do  
8 object to any reference to -- to the kind of  
9 basic information that is available to anybody  
10 anywhere who wants to bother to -- to look at  
11 it. But that seems to me to be a very helpful  
12 thing. I'm not sure exactly how that should be  
13 presented, but it seems inappropriate for us to  
14 be telling all of these individuals -- trying  
15 to communicate all of these individuals with  
16 respect to their specific situation without  
17 giving them any acknowledged background of what  
18 the circumstances are epidemiologically  
19 throughout the entire United States. That just  
20 seems -- seems that we're missing something  
21 somehow by not doing that, and it's very clear  
22 from listening to public comments that we hear  
23 that this is not understood by the claimants.  
24 It's clear, they keep telling us over and over  
25 again -- Mama would not have had any problem at

1 all if she hadn't been a secretary for three  
2 months and walked through that dreadful miasma  
3 that caused her to have breast cancer. And  
4 that just -- we all know that that is so  
5 unlikely that it's -- it borders on being  
6 ridiculous for us to consider it, and yet it --  
7 the misunderstanding is, in my view, not going  
8 to be cleared up if we don't try to do  
9 something about it. And this is a topic we  
10 probably need to address in full Board since  
11 there clearly is a disagreement on the Board as  
12 to whether or not established epidemiological  
13 information should be made (unintelligible) --  
14 you know --

15 **DR. BEHLING:** And one of those would be the  
16 National Cancer Institute that issues a  
17 complete report every year, available to the  
18 members of the public, and of course with the  
19 likelihood that people will view that as an  
20 independent source of information, it certainly  
21 won't be construed as a biased piece of  
22 information. And I get -- every year I get my  
23 updated version of what the National Cancer  
24 Institute issues, and it gives some very  
25 beautiful statistics, graphs, tables, that

1           would certainly provide some information to  
2           people about the ubiquity of cancers,  
3           especially with prostate cancers and breast  
4           cancers and so many other cancers that are the  
5           bulk of the claims that I'm sure NIOSH is  
6           processing, and if people understood that -- I  
7           don't know how many times I've had people come  
8           up to me during these meetings and when I tell  
9           them about 30, 40 percent of the natural  
10          population that has nothing to do with  
11          occupational radiation will have some day -- at  
12          some point in their life an issue with cancer,  
13          all of a sudden it --

14          **MS. MUNN:** They're shocked.

15          **DR. BEHLING:** -- it opens up a door for them to  
16          understand that maybe radiation wasn't the  
17          cause of their cancer, and they will feel  
18          certainly a lot more at ease thinking that  
19          perhaps -- maybe my prostate cancer has nothing  
20          to do with occupational radiation.

21          **MS. MUNN:** Yeah.

22          **DR. MAURO:** Wanda, this is John Mauro. I'd  
23          like to jump in with a perspective, also, on  
24          this matter. Notwithstanding the kinds of  
25          information that might go into the letters and

1 written communication, one of my concerns has  
2 always been something that I refer to as  
3 bedside manner. I think even if you include  
4 this kind of information in a letter, it's too  
5 cold.

6 **MS. MUNN:** Yeah --

7 **DR. MAURO:** Right now I think the interaction -  
8 - personal interaction comes through the CATI  
9 interview, and if we want to relieve some of  
10 the anxiety on the part of the claimants and  
11 their spouses, it seems to me as early as  
12 possible -- this may not be feasible -- opening  
13 up one-on-one dialogues with the individuals,  
14 it's that type of bedside manner that I think  
15 creates confidence and comfort, and not, you  
16 know, letters coming from bureaucracy regarding  
17 matters of the kinds we're talking about right  
18 now.

19 **MR. PRESLEY:** This is Bob Presley. I agree  
20 with Wanda and I agree with John. I hate to  
21 say it, but we are almost too late on this.  
22 This is something that we should have started a  
23 long time ago. I'm afraid that the public is  
24 going to think that -- well, y'all are trying  
25 to cover up something now -- when we start

1           doing this, so you're going to have to really  
2           be careful the way you present it.

3           **MS. MUNN:** True.

4           **DR. WADE:** Any more discussion on this topic?

5           **MR. GRIFFON:** Yeah, that -- and I agree with --  
6           I agree with the entire discussion. I mean I  
7           think one of the problems we've had is setting  
8           up -- I think we've set up for some people  
9           false expectations by -- somewhere they're  
10          getting the message that, you know, I fil-- if  
11          I just file, I can get this money. And in  
12          fact, you know, like -- like you've indicated,  
13          some of these prostate cancers, somewhere the  
14          message should get through that it's probably  
15          highly unlikely, you know, it's -- you can  
16          still file, but it's highly unlikely that some  
17          of these cancers will be compensable, you know,  
18          just because they're non-radiogenic and they're  
19          very common amongst the general population, et  
20          cetera. But I agree with all the discussion so  
21          far. I'm just -- how we communicate that is  
22          very important, too, yeah.

23          **MS. MUNN:** Well, this is Wanda again. My  
24          primary concern is that we have been, in my  
25          view, misleading claimants with respect to what

1 the possible genesis of their disease might be  
2 by -- in our attempt to be claimant-favorable,  
3 and I, to a large degree, blame the Board for  
4 having made that -- made such a strong  
5 statement in that regard early on and having,  
6 in my view, sort of pushed NIOSH into -- to  
7 looking at maximizing doses in almost -- in far  
8 too many cases. So you're right, Bob, I think  
9 we may be almost too late on this. But at some  
10 juncture I think we ought to try to clean up  
11 our act a little bit if we possibly can and  
12 this is likely to be a fairly rancorous  
13 discussion in open Board, but I do think it's  
14 time for us to do that.

15 **MR. PRESLEY:** After -- after listening to some  
16 of the comments in Oak Ridge and the times past  
17 in other places, I agree 100 percent. But boy,  
18 we've really got to be careful how we present  
19 this.

20 **MS. MUNN:** Yeah, I -- and I am -- am concerned  
21 about the rancor and language that may occur  
22 during our -- our Board comment, but I think  
23 we're going to have to do it.

24 **MR. GIBSON:** This is --

25 **MR. GRIFFON:** Yeah, go ahead.

1           **MR. GIBSON:** This is Mike Gibson. I -- I kind  
2 of agree with what -- everything said,  
3 especially what Bob said. I think we're going  
4 to have to be very careful at this point. I  
5 mean I don't like sitting there getting beat up  
6 by the public, although I understand their --  
7 and I empathize with their problems they've had  
8 with their relatives and et cetera, but you  
9 know, I think we also have to look at when we  
10 go beyond our scope. Our scope is -- is an  
11 Advisory Board to NIOSH, not necessarily to  
12 educate the public. So --

13           **MS. MUNN:** Uh-huh.

14           **MR. GIBSON:** -- you know, it's -- it's a really  
15 fine line in my opinion, so -- but I do agree  
16 that I think the Board really needs to discuss  
17 it in whole.

18           **DR. WADE:** Is there any more comment on this  
19 particular topic?

20           What I would suggest -- obviously this is an  
21 issue of great sensitivity. What I would  
22 suggest is we capture this discussion by  
23 highlighting the transcript and sharing it with  
24 the Board and then, at the working group  
25 Chair's discretion, we could have a discussion

1 with the full Board on this topic. Again, this  
2 is an Advisory Board. The final decisions rest  
3 with the Secretary. But I'm sure the Secretary  
4 would appreciate Board comment on this issue if  
5 the Board would wish to comment.

6 Okay, we can move on to the next -- and I'll  
7 make sure that this part of the transcript is  
8 highlighted and made available to the Board  
9 before the next face-to-face Board meeting.

10 **MR. HINNEFELD:** Okay, I think findings two,  
11 three and four for Procedure No. 4 have kind of  
12 a similar genesis, and that has to do with the  
13 letter to the family members -- or letter to --  
14 finding about survivor claimants and the  
15 disadvantage that survivor claimants are at  
16 with respect to providing information about the  
17 workplace. One has to do with the letter,  
18 another has to do with the procedural guidance  
19 that's given to the interviewers, and then the  
20 third has to do with the request for the  
21 telephone interview. So -- but it all -- to  
22 us, the way I read it, all seems to hit kind of  
23 at the same fact is that the survivor claimants  
24 are not prepped -- they're provided additional  
25 information in order to assist them through the

1 process. And -- and again, like I said, we  
2 feel like -- you know, we're trying to let them  
3 provide what they can provide to us. You know,  
4 we have gained -- you know, we've learned a lot  
5 about the work-- the workplaces -- the various  
6 workplaces from our research. We don't  
7 necessarily view this as an approach to give  
8 the claimant, you know, what we've learned  
9 about their work site and then to let them cast  
10 their work experience in the context of that  
11 because we feel like we can provide -- you  
12 know, we can place their -- their knowledge of  
13 the workplace into the context of the site  
14 based on what we know. So we hadn't envisioned  
15 this as being a part of the claimant interview  
16 process; that is, to provide them more  
17 understanding about their husband's or parent's  
18 workplace, thinking that that may in fact  
19 elicit more response. I don't know if it will  
20 or not, but we have not viewed that as part of  
21 the -- part of our obligation.

22 **MS. ROBERTSON-DEMERS:** This is Kathy DeMers.  
23 I've got a couple of comments. First of all,  
24 in -- in addressing some of these, we need to  
25 look at the packet.

1           **MR. HINNEFELD:** Okay.

2           **MS. ROBERTSON-DEMERS:** And the slight  
3 differences in the two letters that are sent --

4           **MR. GRIFFON:** Kathy, could you speak up just a  
5 little --

6           **MR. PRESLEY:** Yeah, please.

7           **MR. GRIFFON:** -- into --

8           **MS. ROBERTSON-DEMERS:** Okay, I'll yell.

9           **MR. HINNEFELD:** She's blocking the mike there.

10          **DR. NETON:** (Unintelligible) good sound-  
11 absorbing material.

12          **MS. ROBERTSON-DEMERS:** Can you hear?

13          **MR. PRESLEY:** That's a little bit better.

14          **MR. GRIFFON:** Little better, yeah.

15          **MS. ROBERTSON-DEMERS:** Okay. I was just saying  
16 that we need to review the packet and both  
17 letters that are sent out, the one to the  
18 survivors and the one to the claimants. I kind  
19 of wanted to make some comments with making the  
20 interview process more equal. As we're sitting  
21 here talking, it occurs to me that one of the  
22 ways that you can prep individuals for the  
23 interview process is to address it in the  
24 worker outreach commit-- meetings that are  
25 held.

1 Another way that I've seen that makes the  
2 interview process equate better is if the  
3 interviewees have an advocate. A good example  
4 would be at Mallinckrodt where Denise Brock has  
5 gone through and pulled together information  
6 and provided it to the claimants and prepped  
7 them prior to their interview process. It  
8 makes them feel more at ease and you may get  
9 more detailed information with respect to that.  
10 With regard to incidents, this is -- this is  
11 kind of a real sticking point because even if  
12 they have an advocate if there is not a list of  
13 incidents or if there was not something  
14 unforeseen that happened, like maybe the Energy  
15 employee came home in different clothes, the  
16 survivor -- even an advocate like Denise Brock  
17 would not be aware of that. This is why it's  
18 so important for NIOSH to have a list of the  
19 incidents that occurred at the site and to be  
20 communicating these to the dose reconstructor.  
21 It is very evident that with the survivor  
22 claims you're getting a lot of I don't know, I  
23 don't know, I don't know. And with somebody  
24 helping them out, they're actually answering  
25 the questions. I also notice that more people

1 from the survivor side are declining the  
2 interview.

3 It looks as though the individuals from the DOE  
4 complex are doing a little bit better at  
5 answering the questions, even the survivors,  
6 than from the AWE sites where the exposure's  
7 just become public within the last couple of  
8 years, and that's probably attributed to the  
9 fact that they have people around that they can  
10 ask questions to.

11 But these -- these are just kind of some ideas  
12 that I think would make the process easier, and  
13 someone needs to be available that's a little  
14 bit familiar with the site to help survivors  
15 out, and this might be one way of equating the  
16 survivor interviews with the Energy employee  
17 interviews -- or making it at least more fair.

18 **MS. MUNN:** Yeah, Kathy, this is Wanda. My  
19 guess would be that you will continue to see a  
20 large discrepancy between the information from  
21 the AWE employees and from the DOE employees.  
22 Whether or not -- one could -- one could always  
23 argue whether or not DOE procedures were  
24 adequate in all cases, but at least they did  
25 have established procedures and they were

1           documented, and they did badge employees. And  
2           a lot of the earlier employers, prior to that  
3           time, may not -- appear to not have had an  
4           extensive formulated program the way many of  
5           the -- most of the major DOE sites did. So  
6           that alone could account for some of the  
7           difference in -- in how the employees respond  
8           to things. Most of the DOE sites -- it's my  
9           understanding, even in the early days -- did  
10          have formal instructions, safety instructions  
11          and -- that went along with the badging  
12          activities for the -- for the folks who worked  
13          there, which may not have been true of all the  
14          AWEs.

15          **MS. ROBERTSON-DEMERS:** This is Kathy DeMers.  
16          Actually the very strongest advocates who have  
17          been interviewed as a part of our review are  
18          from AWE sites, and there -- they really do  
19          have a calming effect on the survivors.

20          **MS. MUNN:** Sure, they need to.

21          **MS. ROBERTSON-DEMERS:** And actually there is  
22          some differences as you look at DOE site to DOE  
23          site. Some of them are better represented than  
24          others. But I think that the interview process  
25          would be more productive if you could address

1           this issue in the worker outreach committee and  
2           at least make them aware of -- the survivors  
3           aware of individuals who are knowledgeable  
4           about the site and allow them to contact these  
5           people, or allow that person to be involved in  
6           the interview process.

7           **DR. WADE:** Thank you, Kathy.

8           **MR. GRIFFON:** This is Mark Griffon.

9           **DR. WADE:** We appreciate that info.

10          **MR. GRIFFON:** I just -- I just had a couple of  
11          comments on this -- I mean I'm not -- not sure  
12          where -- what -- what exact finding this would  
13          be related to, but I think, you know, one of  
14          the concerns from the beginning is what was the  
15          -- what was the intent of this interview. You  
16          know, there's a couple thoughts that I had from  
17          the beginning of this process, that not only  
18          could the interview be useful for the  
19          individual claimant, but also possibly it could  
20          be used in aggregate for certain sites. You  
21          know, if they looked at all the Hanford  
22          interviews in aggregate, there might be  
23          something that -- that could come out of that,  
24          pending the design of the interview. And I  
25          think that was an early dispute that we had

1 with NIOSH that we ended up sticking with what  
2 we had. But I think -- you know, I'm just  
3 wondering, I'm not sure that we can do much  
4 about it now 'cause I think a lot of people  
5 have already been through the process, but it -  
6 - in -- in the response to Proc. 4 No. 3, you  
7 know, the -- the phrase, (reading) the  
8 telephone interview process is used to give  
9 each and every claimant an opportunity to  
10 provide their input into the dose  
11 reconstruction process, that -- that -- I think  
12 that says, to me, that this is a passive  
13 process. And I understand that there's this  
14 fine line between you don't want to coach, you  
15 know -- I don't think you should coach on an  
16 interview and I -- that -- that may even be a  
17 problem with advocates 'cause if you have the  
18 same advocate for 40 or 50 interviews, you tend  
19 to get the same responses. But also I don't  
20 think that this interview gave much opportunity  
21 for pulling information out of these  
22 interviewees -- and not -- not so much the  
23 survivors, but the -- the claimants themselves  
24 that -- the former workers themselves. I think  
25 if the interview was designed differently it

1           could have -- and maybe conducted differently,  
2           it could have been designed to trigger memories  
3           and to pull out information. And that's been  
4           my criticism from the beginning is that a lot  
5           of times it's -- it's important to have site-  
6           specific knowledge in order to trigger these  
7           memories so that you are talking the talk, you  
8           know the certain names of -- of -- trade names  
9           that were used in place of certain  
10          radionuclides or -- or certain building numbers  
11          and names that -- that would trigger memories,  
12          and I don't think that really happened in this  
13          process. So again, I think we're -- we're  
14          probably too far along with all these  
15          interviews that have been conducted to do much  
16          about that, but I just wanted to -- to get that  
17          out there.

18          **MR. PRESLEY:** This is Bob Presley. I agree  
19          with Mark. I remember three or four years ago  
20          when we first started this thing and we were in  
21          Cincinnati and we actually set down as a  
22          working group one day and listened to a -- an  
23          interview being conducted, and I think that was  
24          one of the comments was, you know, is there any  
25          way that the interviewer could get more

1 information about what he's talking about. If  
2 I remember correctly, that's something that we  
3 had a concern about early on.

4 **MS. ROBERTSON-DEMERS:** Well, I would agree that  
5 you would have to keep a collection of comments  
6 from the interviews and consider that in the  
7 dose reconstruction process.

8 **MS. MUNN:** This is Wanda. My knee-jerk  
9 reaction is that it would be pretty hard to  
10 train interviewers in the specifics of a site.  
11 I guess -- especially the old, old ones. Now I  
12 certainly understand what you're talking about,  
13 Bob and Mark, when you -- when you talk about  
14 the terminology and the internal code words  
15 that were used by people who clearly were never  
16 allowed to speak of what they did elsewhere.  
17 It would be really nice if we could -- could  
18 tailor each one of our interviews to each  
19 individual claimant. But given the number of  
20 claimants we have, given the number of  
21 interviews that exist, I guess my partially  
22 uninformed thought would be it would be almost  
23 impossible for us to allow the amount of time  
24 that would be necessary to -- to train specific  
25 individuals to interview specific other

1 individuals. That would seem a little too  
2 difficult to do.

3 **MR. PRESLEY:** This is Bob Presley. That was  
4 what our -- I think that was what our thing was  
5 early on, that -- that we just could not tailor  
6 the -- there were so many sites, that you could  
7 not tailor any type of a standard interview to  
8 each site.

9 **DR. NETON:** Bob, this is Jim Neton. You raise  
10 a very good point, and also I think early on  
11 the issue was that these scripts need to be  
12 cleared by OMB when you interview ten or more  
13 people. And to make a specific OMB-approved  
14 script for all the various sites would be  
15 virtually -- next to impossible.

16 **MR. GRIFFON:** That's what kind of created the  
17 problem, Jim, I -- yeah, that -- that was --

18 **DR. NETON:** I just wanted to remind every--  
19 that -- that was the reason why we couldn't  
20 tailor those scripts.

21 **MR. PRESLEY:** Right, I remember us going  
22 through that.

23 **MR. GRIFFON:** But I'm still not clear, Jim, on  
24 -- on what -- what -- how much has to be  
25 scripted or -- or can the interview -- you

1 know, for instance, if the interviewer had sort  
2 of a cheat-sheet or whatever you want to call  
3 it, a long (unintelligible) that could be used  
4 to trigger memories, is that considered part of  
5 a script or is that -- I just don't know how  
6 much --

7 **DR. NETON:** Yeah --

8 **MR. GRIFFON:** -- how much is -- is considered  
9 part of the, quote/unquote, script versus how  
10 much can just be something that the interviewer  
11 uses during the process.

12 **DR. NETON:** It's been my experience that they  
13 look at those pretty closely. I mean you can't  
14 --

15 **MR. GRIFFON:** Yeah.

16 **DR. NETON:** -- have open-ended questions that  
17 just say tell me about Y-12 --

18 **MS. MUNN:** Uh-huh, yeah.

19 **DR. NETON:** -- and then have a little cheat-  
20 sheet that says, you know, there's all these  
21 other acronyms that you might want to know  
22 about, but --

23 **DR. WADE:** Right, and OMB would -- would not  
24 want, you know, large migrations from the  
25 questions. It's not something that we can

1 follow the information given to a different  
2 place. I mean you have to be pretty -- you  
3 have to stick to the script pretty closely.

4 **DR. NETON:** Right, 'cause the whole point of  
5 that script review is for the Paperwork  
6 Reduction Act and, you know, making efficient  
7 use of people's time and not having the  
8 government, you know, using a large block of  
9 people's times without it being reviewed and  
10 that sort of thing. Anyway...

11 **MR. GRIFFON:** Can you -- can you, Jim, compare  
12 that to the interview proc-- I don't know if  
13 you even know this, but in the veterans program  
14 when Till presented to us he described some of  
15 the interviews that were done there. They seem  
16 more like freeform interviews. I don't know if  
17 they had to get similar approval for their  
18 interviews that were done or if they were just  
19 --

20 **DR. NETON:** You're talking about the interviews  
21 by the Academy in reviewing the program.

22 **MR. GRIFFON:** Well, I -- I thought they were  
23 looking at notes that were in the case files.

24 **DR. NETON:** No, it's my understanding that the  
25 DTRA program did not require interviews of

1 anyone, and in fact that's how we ended up with  
2 interviews. One of our first --

3 **MR. GRIFFON:** Okay.

4 **DR. NETON:** -- questions to them was what would  
5 you do differently, and we heard across the  
6 board that it would have been nice to establish  
7 some rapport with the claimant at the early  
8 stages of the process, and that's specifically  
9 why we -- one of the reasons we added it --  
10 other than --

11 **MR. GRIFFON:** Yeah, 'cause --

12 **DR. NETON:** -- the fact we thought it was a  
13 good idea, but --

14 **MR. GRIFFON:** Well, that's what I'm reflecting  
15 on, too, is that one of the -- as I recall, one  
16 of the findings in that report was -- by Till's  
17 group was that the -- the -- I think these  
18 might have been voluntarily provided sort of  
19 testimonies on the claimant's part.

20 **DR. NETON:** That's possible.

21 **MR. GRIFFON:** They wrote up -- some of them  
22 wrote up their memory of what they had done,  
23 and Till's finding in a few -- in some cases  
24 was that the dose reconstructors didn't  
25 consider the claimant's intervi-- or the

1 claimant's testimony --

2 DR. NETON: Right.

3 MR. GRIFFON: -- or whatever it was --

4 DR. NETON: Right.

5 MR. GRIFFON: -- in doing the DR. They -- they  
6 sort of disregarded --

7 DR. NETON: Yeah.

8 MR. GRIFFON: And so those -- but those weren't  
9 -- everybody didn't get an interview, so to  
10 speak, did they --

11 DR. NETON: Right.

12 MR. GRIFFON: -- in that process?

13 DR. NETON: There was no requirement in that  
14 program.

15 MR. GRIFFON: Okay. All right.

16 DR. NETON: I would say that our interview  
17 process does not preclude someone from -- from  
18 elaborating. At the end there's a general  
19 question that says if you have anything else  
20 that we didn't ask, or something to that  
21 effect, and -- and to my knowledge, some of  
22 these interviews go on for hours. You know,  
23 there is no attempt to cut them off and say  
24 well, we have to stick to the standard script  
25 and you're done. These people do -- do open up

1           when they feel like it.  And again, I don't  
2           think we make any attempt to -- to cut them  
3           off.

4           **DR. BEHLING:**  Is there any attempt to somehow  
5           or other pacify people in instances -- having  
6           audited so many of the dose reconstructions at  
7           this point, we have also come across CATI  
8           interviews where there's basically nothing but  
9           blank spaces -- I don't know, I don't know, I  
10          don't know.  And I guess the concern here is  
11          that at the end of such an interview I'm sure  
12          the person who's being interviewed -- in some  
13          cases may even be second generation family  
14          member who knows nothing at all about the  
15          environment of the Energy employee -- and I  
16          guess my concern would be that this individual  
17          now feels he has completely failed in every  
18          respect in providing critical information that  
19          may at this point prove to be detrimental to  
20          the -- to the adjudication of that claim.  I  
21          think it would be very important for the  
22          interviewer to give some understanding of how  
23          this fits into the bigger piece of the dose  
24          reconstruction so as not to give the impression  
25          that, in the absence of information, this claim

1           has no chance of being adjudicated in a  
2           positive way. Is there any attempt to -- to  
3           inform the interviewer that, under those  
4           circumstances, he has an obligation to sort of  
5           say the information that is being sought is  
6           only just one of many sources of information  
7           and this is really potentially not going to  
8           adversely affect the outcome of the claim so as  
9           not to give the impression that you've --  
10          you've -- obviously you're out of the picture  
11          entirely?

12          **DR. NETON:** I thought that was -- that was the  
13          language that was added into the letter was  
14          that, you know, you're -- you're asked to  
15          interview, but by not participating -- or  
16          something to that effect -- it would not  
17          adversely affect the outcome. There's some --  
18          some language to that effect in the -- in the  
19          modified letter, but it doesn't go much beyond  
20          that.

21          **DR. BEHLING:** No, it just needs to be stated  
22          that the whole dose reconstruction process  
23          looks at a wealth of information from records  
24          to site profiles where all this information is  
25          integrated and the CATI interview is just one

1 of many sources of information and may be not  
2 necessarily the most important one, so as --

3 **MR. GRIFFON:** From -- from what I've heard,  
4 Hans, my guess is that the interviewer probably  
5 does convey that, you know, that even if you  
6 don't have a lot of information, you know,  
7 don't worry about -- you know, we -- we have  
8 other information we're going to use.

9 **MR. ALLEN:** Yeah, they've been doing that.

10 **MR. GRIFFON:** I think they -- I think they do  
11 emphasize that, Jim, if I -- I mean that's my  
12 impression, anyway.

13 **MR. ALLEN:** I don't think there's any formal  
14 process or script or anything, but they've been  
15 coached all along that -- you know, to reassure  
16 them that we're asking questions to get what  
17 information we can, and I don't know is -- is  
18 typical or, you know, it happens a lot and  
19 don't -- don't worry about it type of thing.

20 **MS. MUNN:** It's okay to say I don't know.

21 **MR. ALLEN:** Yeah.

22 **MR. GRIFFON:** Let me see if I can move on to  
23 Proc. 5-01, finding Proc. 5-01. I think we've  
24 covered things up to this -- I mean I think  
25 we're kind of getting a little off-track. Some

1 of these things overlap a little bit. As far  
2 as I can see for the Proc. 4 findings, most of  
3 our actions are going to hinge on reviewing the  
4 acknowledgement package that you discussed and  
5 reviewing the revised CATI language, the  
6 revised CATI form language that some was  
7 deleted and replaced by other language. And  
8 then I think, if it's okay, maybe we can move  
9 on to Proc. 5-01 and pick it up there. Stu, is  
10 that okay?

11 **MR. HINNEFELD:** Okay.

12 **MS. MUNN:** Yeah, you keep us on track.

13 **MR. GRIFFON:** I'm trying, I'm trying.

14 **MR. HINNEFELD:** The -- for -- comment number  
15 one on Proc. 05 says procedure provides no  
16 reference to site profile or closing  
17 interviews. And see, this is in the conduct, I  
18 believe, of the inter-- Proc. 5, I believe, is  
19 conduct of the interview. We went through the  
20 finding, the body of the finding, and  
21 identified several -- several points that were  
22 made in the body of the finding and the report,  
23 and have kind of -- and have provided responses  
24 from that because, based on the summarized  
25 finding in the -- in the matrix, we had -- you

1 know, we felt like there was more -- more text  
2 that we could respond to and so we've kind of  
3 reproduced either a finding or our  
4 understanding of a comment that was made for  
5 various things. Those are the numbered -- in  
6 italicized bullets -- and then responded there.  
7 One of the things that we did point out is we  
8 do now have a closeout procedure -- a procedure  
9 for closeout interviews and --

10 (Whereupon, Mr. Elliott joins the group.)

11 **MR. GRIFFON:** Proc. 92. Right?

12 **MR. HINNEFELD:** Right.

13 **MS. MUNN:** Yeah.

14 **MR. HINNEFELD:** We do in fact log the  
15 interviews, all -- all the conversations with  
16 claimants are logged in our NOCTS  
17 (unintelligible) log. There's no interview  
18 form for the closeout interview because we're  
19 just trying to be -- be -- trying to make --  
20 trying to help the claimant understand the dose  
21 reconstruction and see -- answer questions they  
22 might have with the dose reconstruction and  
23 tell them that if they have no more information  
24 to provide then the next step in the processing  
25 claim is to submit -- sign and submit the OCAS-

1           1. We ask them not to submit the OCAS-1 until  
2 we've addressed, you know, their concerns or at  
3 least tried to answer their questions.  
4 Now if we've answered the question and it's not  
5 the answer they want and they -- you know, we  
6 will still say at that point we can't provide  
7 any more -- you know, answer any more  
8 explanation than we've provided to you. We  
9 would like you to sign the OCAS-1 and send it  
10 in. We do get to that point. But we do want  
11 to try to answer the questions they have on  
12 their dose reconstruction before they sign the  
13 OCAS-1 and send it back. That's what the  
14 closeout interview's supposed to cover before  
15 the OCAS-1 comes back.  
16 We've made some changes since the review of the  
17 procedures to try to make health physicists  
18 more available for closeouts so they can --  
19 they're more readily available to the  
20 interviewer for assistance if need be. And --  
21 so anyway, you can just go on down the list  
22 there.

23           **MS. MUNN:** So is SCA happy with that? Did that  
24 address the concern adequately?

25           **MS. ROBERTSON-DEMERS:** I would say that we

1 would need to review Proc. 92 to make sure that  
2 it has all the elements.

3 **MR. PRESLEY:** Kathy, this is Bob Presley.  
4 Speak up, please.

5 **MS. ROBERTSON-DEMERS:** Okay. I have some  
6 concerns about the availability of health  
7 physicists during the closeout interview. I've  
8 heard from numerous people that they've had to  
9 go to educated health physicists outside of  
10 NIOSH to get explanations of what exactly is  
11 being discussed in the -- in the DR provided to  
12 the -- to -- to them. And this includes, you  
13 know, some fairly educated people, so they're  
14 pretty difficult to understand and probably  
15 very difficult to communicate.

16 **MS. MUNN:** How often did that happen, Kathy, do  
17 you know? Is that --

18 **MS. ROBERTSON-DEMERS:** The survivors, you know,  
19 that I've been in touch with pretty much do not  
20 understand at all what is contained in the DR.

21 **MS. MUNN:** Well, and -- and I don't think any  
22 degree of -- of education that we can provide -

23 -

24 **MS. ROBERTSON-DEMERS:** Right.

25 **MS. MUNN:** -- would likely do that.

1           **MS. ROBERTSON-DEMERS:** Well, one of the things  
2           that has come up, and this was brought up to me  
3           by one of the -- the DOE health physicists --  
4           is when they see that their dose is much, much,  
5           much higher than what is on record, they  
6           automatically assume the site is not monitoring  
7           them adequately. So the maximizing and  
8           minimizing dose procedure has to be clarified  
9           absolutely, you know --

10          **MR. GRIFFON:** Or the communication of it has to  
11          be very clear, yeah.

12          **MS. MUNN:** Yeah, I guess it's a major concern.  
13          I've used this word before and I'll continue to  
14          use it because I really feel that's what  
15          happens. Too often we mislead survivors and  
16          claimants when we use maximized doses, and  
17          these folks are -- mistakenly believe that  
18          they've received more -- that they might have  
19          received more dose than they were recorded as  
20          having received. And if -- if we don't have a  
21          very clear way of letting them know that they  
22          are being given the -- not just given the  
23          question of the doubt, but actually being  
24          allotted additional exposure that an -- that  
25          there's very little probability anyone

1 received, then we're -- we're misleading them  
2 badly.

3 **MR. GRIFFON:** Also -- I mean this -- this is a  
4 bigger discussion, Wanda, and I'm not sure --  
5 you know, you suggested that the Board drove  
6 NIOSH to this. I know I've been -- I've had  
7 issues with the efficiency process since the  
8 beginning, and I -- maximizing doses is in no  
9 way to be confused with claimant favorability  
10 'cause it's --

11 **MS. MUNN:** No.

12 **MR. GRIFFON:** -- there's nothing about claimant  
13 favorability in this 'cause they're denial  
14 claims, you know, so -- but I agree, it's got  
15 to be -- 'cause it creates confusion on the  
16 tail end with people 'cause they have dose  
17 records for all these years when they have  
18 almost all zeroes and then they get this very  
19 high dose and they -- it creates doubt. And  
20 the worst cases that we hear about is when they  
21 come back with another primary cancer and then  
22 they have a lower dose, and that creates -- you  
23 know, and rightly so technically. But you  
24 know, from the communications standpoint it's --  
25 -- it's creating -- creating some problems so I

1 think we -- you know, we're on the same page  
2 here, but...

3 **MS. MUNN:** Yeah, and I -- my guess is that  
4 we're not going to get a great many of those,  
5 but the ones that we do get are going to be  
6 highly publicized and will help to increase  
7 doubt, I think, in the minds of other people  
8 who have been through the process, which isn't  
9 -- isn't fair, either. And I'm not sure that  
10 we in this working group here today can -- can  
11 find a way around this, but it seems to me that  
12 we really and truly need to be addressing this  
13 straight on before it gets any further --

14 **MR. GRIFFON:** Well, except --

15 **MS. MUNN:** -- down the road.

16 **MR. GRIFFON:** I guess the only thing I would  
17 recommend is that, you know, we have an  
18 opportunity to review this acknowledgement  
19 package and maybe we just might -- you know,  
20 when we consider that, we might want to  
21 consider having some language in there about  
22 this whole efficiency process and what -- you  
23 know, so I guess that maybe will be our  
24 opportunity to -- in some way to comment on it.

25 **MR. HINNEFELD:** This is Stu Hinnefeld. I want

1 to -- I want to comment on some things that  
2 have gone on and continue to go on that relate  
3 to this understandability and what  
4 communication we make to the claimant. We've -  
5 - we have, throughout the time we've been  
6 saying dose reconstructions, been adjusting the  
7 language in a dose reconstruction in order to  
8 try to make it more understandable. When we  
9 get feedback about a certain passage or type of  
10 language or certain activity, we will then  
11 modify sort of the boilerplate language that  
12 goes into a dose reconstruction to try to  
13 explain that. An example now is that there is  
14 a -- a sentence, or a couple of sentences that  
15 goes into overestimating claims --  
16 (unintelligible) overestimating claims, that  
17 says that this is overestimated for the  
18 purposes of efficiency, and if the information  
19 changes in the future and the case is redone,  
20 quite likely the number will be lower. I mean  
21 we -- we're trying to -- so we've done things  
22 like that. We have done other adjustments and  
23 tweaks to the language that's selected in the  
24 dose reconstructions to address items that come  
25 up -- you know, lack of understanding, poor

1           understanding that occurs because of the  
2           language in there. So that has been going on  
3           all along.

4           In addition, there has -- you know, early on,  
5           the earliest dose reconstructions, there's this  
6           comment that boy, these things are hard to  
7           read.

8           **MS. MUNN:** Uh-huh, yeah.

9           **MR. HINNEFELD:** These things really aren't easy  
10          to follow. It's been there from the start.

11          **MS. MUNN:** Yeah.

12          **MR. HINNEFELD:** And so it takes us a while, but  
13          we do have now that sort of a draft package of  
14          a revised dose reconstruction report that will  
15          -- that will have a section that's intended for  
16          the claimant. The problem with the current  
17          dose reconstruction is there's nothing in there  
18          that is intended to be readable by the  
19          claimant.

20          **MS. MUNN:** Uh-huh.

21          **MR. HINNEFELD:** It's got a whole lot of people  
22          it's supposed to be intended to; none of them  
23          are the claimant. So this is supposed to have  
24          a summary for the claimant that explains things  
25          like why is this so much different than your

1 recorded dose; you know, what monitoring  
2 information did we have for you, those -- those  
3 things. So -- so they're trying to lay it out  
4 in layman's language what we did with what we -  
5 - what we knew about their work and what we did  
6 with it. And then there will be a back portion  
7 for a health physicist reviewer or a health  
8 physicist who -- whether it's us or whoever  
9 wants to review it, where it will  
10 (unintelligible) just these were the decisions  
11 we made and how we went about it. And so it'll  
12 be much briefer and you don't have to have as  
13 much language in the -- in the health physicist  
14 part because you would have to know -- you need  
15 -- it'll just tell you what selections were  
16 made, why choices were made the way they were  
17 made. So that's the intent.

18 **MR. ELLIOTT:** If I could make a statement here,  
19 I'd like to add to what Stu's offered. We take  
20 this concern very seriously. We've heard it  
21 and I think, as Stu's walked you through, when  
22 we've heard it we've taken steps to address the  
23 issues that were raised in those concerns. And  
24 I don't think we're there yet. I think we're  
25 working hard to get there. I'm anxious to see

1 us get this -- this draft, claimant audience  
2 included, report out and in -- in use. It  
3 takes us a while to do that. It's my hope that  
4 we will reach a broader audience through this,  
5 and I'm certain that we will. So -- and we're  
6 glad to work with the Board in making that  
7 happen. I expect we will bring it all to the  
8 Board so that you can see what we're proposing  
9 to do. So just to let you know, we're working  
10 on this in concert.

11 **MS. MUNN:** That was Larry, y'all. He's joined  
12 --

13 **DR. WADE:** Yeah, for the record --

14 **MS. MUNN:** -- us here at the table.

15 **DR. WADE:** For the record, Larry joined the  
16 table just before Stu made his last comment.  
17 Larry came to the table so Larry's with us now.

18 **MS. ROBERTSON-DEMERS:** This is Kathy DeMers. I  
19 guess we would like to see the Proc. 92. We  
20 would like to see this revised dose  
21 reconstruction language, and I think we  
22 probably would get a better idea of what's  
23 going on if we could sit in on some closeout  
24 interviews.

25 **MR. HINNEFELD:** Will that have to be tasked

1 from the Board? Will that have to be tasked  
2 from the Board, Proc. 92? I mean SC&A was --

3 **MR. GRIFFON:** Oh, Proc. 92, I -- I had actually  
4 written down and I did write down this -- this  
5 revised DR report, Stu, I think in part that  
6 was one of the things we said from the first 20  
7 cases --

8 **MR. HINNEFELD:** Right.

9 **MR. GRIFFON:** -- and so as a follow-up action I  
10 think we -- you know, we -- you -- you said at  
11 that time you were modifying --

12 **MR. HINNEFELD:** Right.

13 **MR. GRIFFON:** -- the boilerplate language, and  
14 I think as a follow-up we would -- we would,  
15 you know, want to look at that language --

16 **MR. HINNEFELD:** Okay.

17 **MR. GRIFFON:** -- which it sounds like you've  
18 made, you know, good strides on that. I'm not  
19 sure about -- you know, I -- I was going to ask  
20 SC&A whether these set of seven items listed --  
21 I think many of them -- we've sort of got a  
22 follow-up action here now, but I'm wondering  
23 about the -- the questions about the health  
24 physicists and -- and number seven, I think --

25 **DR. WADE:** Just -- this is Lew Wade, just --

1           **MR. GRIFFON:** -- whether they've been  
2           adequately -- you know, whether SC&A is  
3           comfortable with the NIOSH response here.

4           **MS. MUNN:** Yeah, that was my question earlier.

5           **MR. GRIFFON:** Yeah.

6           **MS. ROBERTSON-DEMERS:** Well, I guess -- sorry,  
7           (unintelligible).

8           **MS. MUNN:** No -- no, and I think Kathy's saying  
9           they don't want to commit to that until they've  
10          seen Proc. 92's revision.

11          **MS. ROBERTSON-DEMERS:** Yeah, and that's why,  
12          you know, I'm kind of recommending that we  
13          might sit in on some of these -- on a couple of  
14          closeout interviews because it would give us a  
15          better familiarity with what's being  
16          communicated to the claimant.

17          **DR. WADE:** Just to deal with the official  
18          communications between the Board, NIOSH and the  
19          contractor, my -- if my understanding serves  
20          me, at the last Board meeting we took the  
21          action of adding Proc. 90 to the list of  
22          procedures to be reviewed. I don't believe the  
23          Board has acted on Proc. 92.

24          **MR. GRIFFON:** Right, we haven't.

25          **MS. MUNN:** I didn't remember it.

1           **DR. WADE:** Okay, but -- but you know, this --  
2           the working group can certainly bring that to  
3           the Board --

4           **MR. GRIFFON:** Bring that forward, yeah.

5           **DR. WADE:** -- at the next call and we can deal  
6           with that, but Proc. 90 has been added --

7           **MS. BEHLING:** Yes, it has.

8           **DR. WADE:** -- but not Proc. 92 --

9           **MR. GRIFFON:** Right.

10          **DR. WADE:** -- so you need to keep your marginal  
11          notes, and if that's a recommendation of the  
12          working group to the Board, it needs -- it  
13          would require a full Board action -- as would  
14          this suggestion of sitting in on interviews. I  
15          think this is something --

16          **MR. GRIFFON:** Sure.

17          **DR. WADE:** -- that the Board would need to  
18          consider and decide on its -- its  
19          recommendation.

20          **MS. MUNN:** I personally am a little concerned  
21          about the privacy issues with that one.

22          **MR. ELLIOTT:** Did you sit in on --

23          **MS. MUNN:** Right.

24          **MR. ELLIOTT:** -- the interviews, the CATIs that  
25          are done to develop work histories? Did SC&A

1 sit in on any of those? Some Board members  
2 did.

3 **MS. ROBERTSON-DEMERS:** It would be nice to sit  
4 in on both ends and see how they tie together.

5 **MR. ELLIOTT:** So you did sit in on the CATIs?

6 **MS. MUNN:** I don't think so --

7 **MR. HINNEFELD:** I don't know that --

8 **MS. MUNN:** -- no.

9 **MR. HINNEFELD:** -- I don't think  
10 (unintelligible) be interviewed --

11 **MS. MUNN:** Part of the Board did, but the  
12 contractors did not. We were really concerned  
13 about privacy issues and having third parties  
14 sit in on any of these --

15 **MS. ROBERTSON-DEMERS:** And of course --

16 **MS. MUNN:** -- interviews.

17 **MS. ROBERTSON-DEMERS:** -- it would -- it would  
18 have to be okayed by the person being  
19 interviewed or...

20 **DR. WADE:** Well, the working group can -- can  
21 think about this and bring a recommendation to  
22 the Board.

23 **DR. BEHLING:** Well, what was the difference  
24 between us sitting in versus me reading the  
25 CATI report when it's sent to me as part of the

1           audit? I mean that has certainly privacy  
2           information in the CATI report, so I see no  
3           reason why it can't be expanded to actually sit  
4           in on the interview itself.

5           **MR. ELLIOTT:** It -- it was advised, with regard  
6           to your sitting in on CATIs, that it would  
7           perhaps chill the collection of information.

8           **MS. MUNN:** I think we actually had a legal  
9           finding on that, too.

10          **MR. PRESLEY:** Yeah --

11          **MR. GRIFFON:** I think that --

12          **MR. PRESLEY:** -- I remember, we did.

13          **MR. GRIFFON:** -- there are consent issues,  
14          though, aren't there? I mean --

15          **MR. PRESLEY:** Yes.

16          **MR. GRIFFON:** Yeah. But we -- we can -- we can  
17          look into that. I mean I think actually Proc.  
18          92 should probably come before -- well, I don't  
19          know, you know, but -- it may be that we want  
20          to look at Proc. 92 first and then consider  
21          sitting in on some of those, given that they're  
22          using a new procedure and we haven't looked at  
23          the new procedure.

24          **MS. MUNN:** I would suggest that we add Proc. 92  
25          to our agenda for the next Board call.

1           **MR. GRIFFON:** Yeah, I agree with that.

2           **DR. BEHLING:** Can I make just a comment  
3           regarding the issue of the dose reconstruction  
4           report and the clarity, or lack of clarity,  
5           having again looked at so many of the audits  
6           now. It's a challenge for any health physicist  
7           to decipher what's in those reports. And  
8           clearly I think one of the most challenging  
9           aspects of the report is the IREP input data.  
10          I mean I can't imagine a lay person looking at  
11          those datasheets and saying what does this  
12          mean? A lognormal distribution with a  
13          geometric standard deviation means nothing --  
14          they don't even know what goes with what area.  
15          You get, in some instance, up to 400 dose  
16          entries and you don't know where the medical  
17          occupational starts and the actual recorded  
18          dose starts, et cetera. And one of the things  
19          that Kathy and I have discussed about the  
20          potential for a beneficial introduction of  
21          information to the claimant would be to  
22          introduce a table that we have introduced in  
23          our audit report that says okay, here's your  
24          recorded photon dose, here's your missed photon  
25          dose, recorded neutron, missed neutron,

1 occupational medical, on-site ambient, et  
2 cetera, et cetera. And then give you, as a  
3 minimum, the -- the entries that correspond to  
4 those particular segments. If they never look  
5 at that, that's fine, too. But they can  
6 instantly look at that, and that would also  
7 benefit the QA internal process -- and we'll  
8 talk about it probably later on, touch on that  
9 very subject again. But you can instantly look  
10 down and say oh, my God, yeah, that's right; I  
11 only got something like two rem of lifetime  
12 reported photon dose, but look at this, they  
13 gave me a hypothetical internal dose of 16 rem.  
14 And they would instantly recognize, in terms of  
15 magnitude, what those numbers and the total  
16 dose really represent and -- and get to some  
17 understanding as to how much is real, how much  
18 is simply added there for the sake of maximized  
19 efficiency, et cetera, et cetera. But that  
20 table would prove to be invaluable for a  
21 claimant who has no way of understanding the  
22 IREP datasheet.

23 **MS. MUNN:** This is Wanda. I would submit it  
24 would be extremely important for us to choose  
25 the terminology appropriately if we were to

1           undertake such a list of what's been done. And  
2           I agree, I think it would be enormously helpful  
3           for the five percent of the population that had  
4           any idea what a photon dose was, or who have  
5           any idea what the difference in a photon dose  
6           and a neutron dose was. But -- but even if  
7           they didn't know, understanding the difference  
8           between what they actually were recorded to  
9           have and what they were then assumed later  
10          could have had is -- is a good thing to do.  
11          But I would also caution that this now brings  
12          up one of the fine points that the technical  
13          people go back and forth with with respect to  
14          "and how good is the measured dose to begin  
15          with, and what is our correction factor that we  
16          use there, and why do we use that correction  
17          factor, and was the film badge really  
18          adequate"? You know, we can understand -- the  
19          people sitting around this table understand  
20          what that means. The claimant doesn't  
21          understand what that means. All that means to  
22          many people -- who are heartbroken over having  
23          lost someone that they care about -- is "you  
24          see, the information that they gave us wasn't  
25          even good to begin with". I -- and so my

1 warning would be, if we're going to do  
2 something like that -- and I have no objection  
3 to it, I think it's a good thing, but -- at  
4 least to consider because I think people ought  
5 to know the difference between what they  
6 actually received and what they were  
7 essentially given by this program. But please,  
8 if we're going to consider that, language --  
9 the terminology that's used to identify what  
10 that gift of additional dose rate is is very  
11 important, in my mind.

12 **MS. BEHLING:** In fact what we do in our report  
13 that goes to the Board, which I think does  
14 help, is simply -- something as simple as  
15 putting in bold and highlighting the fact that  
16 this is an overestimate of this dose. And if  
17 you're now introducing that into the letter  
18 that goes to the claimant, I think that would  
19 be very helpful. But definitely make that a  
20 strong point and explain what that means to the  
21 best of your (unintelligible) --

22 **MR. GRIFFON:** Yeah, I think we definitely need  
23 to follow up on -- on the DR report -- the new  
24 boilerplate DR report language that Stu  
25 described. I think some of these questions may

1           be addressed in there. It sounds like they've  
2           been trying to address those, so --

3           **MS. BEHLING:** Yes.

4           **MR. GRIFFON:** I think, if it's okay, can we  
5           move on to Proc. 5-02?

6           **MR. HINNEFELD:** Yeah, Proc. 5-02 says there's  
7           no procedural requirement for coworker  
8           interview or explanation if coworker is not  
9           interviewed. And I guess the issue here is  
10          kind of a timing issue, it's that we don't know  
11          if we're going to have to talk to coworkers  
12          until we assemble all the information package  
13          for the claim. And then the dose reconstructor  
14          gets the assembled information and decides do  
15          we need to talk to the coworker. So the  
16          interviewer -- at the time of the CATI  
17          interview -- the CATI interview is part of the  
18          information that you gather, part of the  
19          information that's assembled to do the dose  
20          reconstruction. So at the time of the CATI  
21          interview there's really no way to know if  
22          you're going to talk to the interview --  
23          interview -- into -- the coworkers or not.  
24          There is a statement in the script that says we  
25          may or may not talk to the coworkers. You

1 know, there's no -- so it kind of doesn't imply  
2 a promise, but maybe it does -- it doesn't go  
3 out and overtly imply one. Maybe people would  
4 assume that they're -- we're going to talk to  
5 them since we asked for them. So there's no  
6 way to know at that time whether the coworkers  
7 are going to be talked to or not because we  
8 won't know at the time of the interview whether  
9 we're going to have to talk to the coworkers.  
10 So we have in fact included language -- and I  
11 think -- I don't think this is actually going  
12 to wait -- the new modify -- you know, the  
13 simplified dose reconstruction. This is just  
14 another boilerplate change that we make  
15 periodically, you know, text language -- text  
16 change that we make periodically where we  
17 intend to put in the sentence that if we didn't  
18 talk to the coworker -- it's just a sentence to  
19 the effect that coworkers were not consulted  
20 because sufficient information was available  
21 from other sources, so at the time of that the  
22 claimant will know whether we talked to the  
23 coworkers.

24 **DR. BEHLING:** Or there was no conflict. I  
25 think a trigger should be put in -- let's

1           assume that the CATI interview takes place  
2           before anything that's really assembled in the  
3           way of DOE records, and there's no need to  
4           worry about, but perhaps request coworker data  
5           or information so that when you finally look at  
6           the CATI report and you have your DOE records  
7           and you look and say well, he says he was  
8           monitored internally by bioassay, and all of a  
9           sudden you look through the records and there  
10          are no bioassay records. At that point I think  
11          it would be wise to -- to trigger an inquiry  
12          that says well, is this an issue of missing  
13          records or is this an issue of a person's  
14          failed memory, but a resolution process should  
15          be there when you sense that the records and  
16          CATI interview data are not consistent, or he  
17          says he was badged but there are no dosimetry  
18          records; he says he was monitored internally  
19          with urine bioassays but there are no records.  
20          I think there should be a trigger that says  
21          well, now that we have gotten the DOE records  
22          and we review the CATI interview sheets and  
23          realize that he says this and the record shows  
24          something different, that that would trigger  
25          someone to say let's go talk to coworkers and

1 see if in fact there was any reason for us to  
2 assume that either it's a case of missing  
3 records or the person's memory is not quite  
4 what it should be.

5 **MR. HINNEFELD:** Well, I think that --

6 **MS. BEHLING:** I would -- oh, I'm sorry, go --

7 **MR. HINNEFELD:** -- there's another aspect of  
8 that is that will what we learn change  
9 anything?

10 **MS. MUNN:** Uh-huh, yeah.

11 **MR. HINNEFELD:** For instance, if you're getting  
12 ready to do dose reconstruction and someone  
13 worked for five or ten years and they said they  
14 were monitored with bioassay and you didn't get  
15 a bioassay record, and it was -- pick your  
16 employment period based on the site -- and this  
17 claim was going to be done with an  
18 overestimating technique, an overestimating  
19 internal intake so the bioassay record's  
20 probably not going to -- almost no chance is  
21 going to change your mind, you know, we may not  
22 request it. We may not go further at that  
23 point because what we would learn would not  
24 change what we're going to do.

25 **DR. MAURO:** Stu, this is John Mauro. What I'm

1           hearing is that we have a bit of a dilemma  
2           because the CATI interview and then the reports  
3           that go out and the collection of information  
4           that eventually is transmitted to the claimant,  
5           it's -- all this material really is trying to  
6           serve two purposes. One, as you correctly  
7           point out, if you really don't need that  
8           information and you don't really need to follow  
9           up with coworkers because of an efficiency  
10          process, for example, that certainly serves  
11          your purposes regarding dose reconstruction and  
12          coming to the correct decisions.  
13          On the other hand, it creates a situation where  
14          the claimant now is sort of confused. So in a  
15          funny sort of way (unintelligible) we have to  
16          decide -- or a decision has to be made -- this  
17          material that's being provided, is it also  
18          being provided not only to document what was  
19          done but also to try to explain some of the --  
20          would appear to be contradictory information.  
21          For example, as Hans pointed out, if there is  
22          this contradiction, the degree -- the degree to  
23          which it is appropriate for us or for NIOSH to  
24          explain all this to -- in the record for the  
25          benefit of the claimant as opposed to for the

1 benefit of the dose reconstructor.

2 **MR. ELLIOTT:** John, this is Larry Elliott. I  
3 would reply that -- that it's important for us  
4 to know that the purpose of these dose  
5 reconstruction reports are to provide  
6 reasonable estimates upon which a compensation  
7 decision can be adjudicated. And you know, in  
8 our -- in our vigor to complete as many of  
9 those as we can to help those claimants out, we  
10 have I think done them a discourtesy in  
11 explaining how we've gone about our work fully.  
12 And I'm -- I'm concerned about contradictions,  
13 and I think we need to be very knowledgeable of  
14 those so we can react to those. And so I  
15 appreciate hearing this.

16 **MS. BEHLING:** I in fact would -- this is Kathy  
17 Behling -- I believe that the interview of the  
18 coworker should be done for survivor cases  
19 where all of the answers are I don't know.  
20 There may be some information out there that a  
21 coworker might have that would impact that dose  
22 reconstruction, and I would take that interview  
23 process a step further by saying for the  
24 survivors -- and again, this is sort of helping  
25 them to be on an equal playing field -- if

1           there's -- they just have no information at all  
2           and they can provide coworker information or a  
3           coworker, I think in that particular case it  
4           may be worthwhile to talk to a coworker, just  
5           to be sure that we're not missing any  
6           information on incidents and so on.

7           **MR. ELLIOTT:** Would it be -- have you looked at  
8           what the effect of our work has been that's  
9           been adjudicated at DOL and how much -- how  
10          much of that -- the concern that we've been  
11          talking about in this problem of communication  
12          and contradictions, how much of that has -- has  
13          been raised as issues in the final adjudication  
14          of the claim? I mean we've sent out over  
15          12,500 claims now and we -- we look at that  
16          through the rework that comes back from the DOL  
17          appeal process and, you know, we should look at  
18          that. We should examine that and see if -- if  
19          that compels us to take -- how far we should  
20          take this in balancing our resources 'cause it  
21          is resource-intensive to make these additional  
22          phone calls.

23          **MS. MUNN:** It is.

24          **MR. ELLIOTT:** It's resource-intensive, you  
25          know, to change boilerplate. But we're

1 interested in making sure we do a good job of  
2 communicating, so maybe we should look at that  
3 piece to (unintelligible) --

4 **DR. BEHLING:** On one hand, however, I think we  
5 need to -- and Stu said it correctly, if there  
6 is a conflict between what's stated in the CATI  
7 and -- and what records would indicate and we  
8 default to a hypothetical intake of 12 or 28,  
9 it's clear that you're going to be giving that  
10 individual a much higher dose than what  
11 potentially may be missing as part of the  
12 records.

13 On the other hand, if that person now appeals  
14 this case -- and you mentioned, Larry, that  
15 we're talking about time and costliness, the  
16 appeal process will probably take an awful lot  
17 of more man hours than a few phone calls would  
18 that would pacify the survivor of a claim into  
19 realizing they made an effort to contact a  
20 coworker and it turns out that the individual's  
21 recollection was at fault, that the coworkers  
22 who worked right next to a person's father or  
23 somebody also wasn't monitored, and that solve  
24 the problem -- which might be a much easier  
25 approach to resolution than going through an

1           appeals process.

2           **MR. ELLIOTT:** Sure, sure. Quite possible.

3           **MS. ROBERTSON-DEMERS:** This is Kathy DeMers.

4           I've kind of got some ideas on this. Could you  
5           develop a criteria for conducting coworker  
6           interviews? Such as: when you're compensating,  
7           why would you need to do a coworker interview;  
8           whereas when you're trying to do a best  
9           (unintelligible) analysis or you have some  
10          questions on the accuracy of what the  
11          interviewee has stated, then you could go to a  
12          coworker interview.

13          **MR. GRIFFON:** Well, I -- this is Mark Griffon.  
14          I think what -- some of what I'm hearing -- I  
15          mean I had a similar comment before and Hans I  
16          think captured it that what are the triggers  
17          for a coworker interview, and maybe Proc. 5 has  
18          to consider that further. You know, what are  
19          the triggers, is it -- and Kathy also captured  
20          -- Kathy DeM-- Kathy Behling also captured one  
21          thing I was thinking of which is does a  
22          survivor automatically trigger a coworker  
23          interview. Maybe not, you know. Maybe there's  
24          more to it than that. But I think Proc. 5  
25          should consider what triggers a coworker

1 interview.

2 As a follow-up to that, I don't know if -- do  
3 you keep any statistics on how many coworker  
4 interviews you've done actually through this  
5 process?

6 **MR. HINNEFELD:** I think there've been a fairly  
7 limited number of coworker interviews.

8 **MR. GRIFFON:** Yeah, 'cau-- is that what -- you  
9 know, your statement in your response says  
10 coworker interviews are conducted only when  
11 they are necessary to complete the DR. And I  
12 was just curious at this point how many  
13 coworker interviews have -- you know, so I  
14 think there's two parts of this. One is a  
15 trigger -- what triggers the coworker  
16 interview, and then the other part is the  
17 communications aspect. And I think that's --  
18 that could be covered in the DR boilerplate  
19 language that we discussed earlier, the -- this  
20 question, which we've heard comments on,  
21 actually, which is -- you know, I gave all  
22 these names and -- and you know, NIOSH didn't  
23 even bother to contact them or whatever, and  
24 even if you -- you know, if you don't, you may  
25 have a good reason not for needing to do that,

1 but it should be communicated in the DR report  
2 in some way so that the claimant is comfortable  
3 with the process, you know, so I think there's  
4 two parts to this, what -- you know, what would  
5 trigger and -- and then -- and if there -- you  
6 know, that -- that issue that Hans raised on  
7 the, you know, potential discrepancies, and  
8 that might be one trigger, and then the  
9 communications aspect.

10 **MS. MUNN:** Mark, what action are you suggesting  
11 here?

12 **MR. GRIFFON:** I'm suggesting that -- that --  
13 that Proc. 5 needs to include something on --  
14 on triggers for coworker interviews -- language  
15 on triggers for coworker interviews.

16 **MS. MUNN:** Okay, so you're asking for a  
17 revision that identifies that.

18 **MR. GRIFFON:** That -- that's what I'm ask--  
19 that's what I think, yeah. And then the other  
20 part I think is covered in our earlier action,  
21 which is to review the DR boilerplate language.  
22 I think that would be covered in there.

23 **MS. MUNN:** I have one question for Larry and  
24 Jim. What's your sense of -- I gathered from  
25 what you said you hadn't actually been keeping

1 records on it, and I can see why, but what's  
2 your sense of -- of the level of rework that  
3 you're getting back from DOL?

4 **MR. ELLIOTT:** Well, we get -- of course we get  
5 rework back from DOL where an Energy employee  
6 has acquired another cancer that was not in the  
7 original --

8 **MS. MUNN:** Oh, yeah, yeah, but I'm --

9 **MR. ELLIOTT:** -- dose reconstruction. You need  
10 --

11 **MS. MUNN:** -- I'm not -- yeah, that's not --

12 **MR. ELLIOTT:** -- to understand that. We get it  
13 back for additional employment that we may have  
14 helped identify, or that has been identified by  
15 the claimant, so those are two things that, you  
16 know, probably -- you just need to know they're  
17 there, but those are not --

18 **MS. MUNN:** Yeah. Yeah, that's --

19 **MR. ELLIOTT:** -- the one at issue here. The  
20 one at issue is technical remands --

21 **MS. MUNN:** Right.

22 **MR. ELLIOTT:** -- and perhaps Stu or Jim can  
23 talk better about the variety and extent, but I  
24 think our rework -- the total amount of rework  
25 we're seeing from DOL's in the eight percent

1 range, eight to ten percent, fluctuates.

2 **MS. MUNN:** Oh, then probably no more than one -

3 -

4 **MR. ELLIOTT:** And I don't know what the --

5 **MS. MUNN:** -- or two percent, right?

6 **MR. ELLIOTT:** -- percentages of technical --

7 **MR. HINNEFELD:** Almost nothing.

8 **DR. NETON:** Almost nothing.

9 **MS. MUNN:** Practically nothing.

10 **MR. HINNEFELD:** Less -- less than -- I'd say  
11 less than ten percent of the rework burden is  
12 actually a technical remand. Almost all of the  
13 rework we get back from the Department of Labor  
14 is either diagnoses and employment that they  
15 didn't identify to us originally that were in  
16 the case file that they just didn't develop  
17 originally, or conditions that have been -- you  
18 know, diagnoses have developed since the person  
19 first claimed -- filed a claim -- you know,  
20 additional cancer diagnoses. The overwhelming  
21 --

22 **MS. MUNN:** You ought to claim a gold star for  
23 that.

24 **MR. HINNEFELD:** -- majority of the rework we  
25 get back from the Department of Labor --

1           **MS. MUNN:** That's good.

2           **MR. HINNEFELD:** -- falls in those categories.

3           **MS. MUNN:** That's good.

4           **MR. HINNEFELD:** I'd say well less than ten  
5 percent --

6           **MS. MUNN:** Yeah.

7           **MR. HINNEFELD:** -- of the rework is some type  
8 of remand.

9           **MR. ELLIOTT:** We could have DOL present more on  
10 that. They would have better -- better  
11 understanding. It comes from four district  
12 offices. We can't break it down that way.

13           **MS. MUNN:** Oh, I'm not sure anybody -- does  
14 anybody on the telephone want that? I didn't  
15 really want that except just a sense of how  
16 large it was. Does anybody want those hard  
17 numbers? I don't need it.

18           **MR. GRIFFON:** I don't think so at this time.

19           **MS. MUNN:** No, I just wanted a sense.

20           **MR. ELLIOTT:** If Jeff Kotsch is on the line --  
21 Jeff, I don't know if you -- you see all of  
22 these. Can you verify that what Stu's saying  
23 is what you see?

24           **MR. KOTSCH:** Part of it is that we don't see  
25 all the -- well, we see all the rework requests

1           that come from our district offices, but that  
2           is still just a subset of, you know, all the --  
3           the dose reconstructions that are out there.  
4           And the other thing is we have specific efforts  
5           underway to look at certain kinds of dose  
6           reconstructions and so from those you may get  
7           more technical comments rather than the normal  
8           comments from the district offices, which are -  
9           - I mean most of their things that they're  
10          identifying have to do with additional  
11          employment or changes of employment, changes in  
12          medical condition, things like that.

13          I think what Larry was saying as far as the  
14          frequency of the reworks and the levels are  
15          probably right. But we don't -- you know,  
16          that's just an intuitive sense, I have to  
17          admit. I don't -- haven't looked at -- we keep  
18          the records, but I haven't really crunched the  
19          numbers recently.

20          **MS. MUNN:** Well, it's obvious from what I'm  
21          hearing that it's not a -- not a truly  
22          significant --

23          **DR. NETON:** No.

24          **MS. MUNN:** -- item, so --

25          **DR. NETON:** This is Jim. I think Stu's

1 correct, it's much less than one percent of the  
2 cases completed -- substantially probably less.  
3 We don't have the exact number, but that's our  
4 sense. And I kind of -- kind of keep track as  
5 they come through, and I -- my feeling is that  
6 coworker interviews probably would not have  
7 influenced the outcome of those cases --

8 **MS. MUNN:** Yeah.

9 **DR. NETON:** -- even ones that were --

10 **MS. MUNN:** Yeah.

11 **DR. NETON:** -- had requested rework. They  
12 tended to be more typically narrowly-focused  
13 issues related to glovebox work or something --

14 **MS. MUNN:** Yeah.

15 **DR. NETON:** -- of that nature, so...

16 **MR. HINNEFELD:** I understand also a coworker  
17 interview -- to call someone who's identified  
18 as Joe Smith's coworker 20 years ago, it's just  
19 as likely as not he doesn't remember Joe Smith.

20 **MS. MUNN:** He doesn't remember Joe, yeah.

21 **MR. HINNEFELD:** I mean -- bear in mind -- I  
22 mean I'm not trying to denigrate coworker  
23 interviews.

24 **MS. MUNN:** No --

25 **MR. HINNEFELD:** I think we have to --

1           **MS. MUNN:** No.

2           **MR. HINNEFELD:** -- have a realistic  
3 understanding that when you ask a coworker or  
4 you ask an Energy employee about their  
5 workplace, you're asking them the visual things  
6 that -- the things that they can observe, the  
7 things that they saw, they knew with their  
8 senses, and the fact is that the things that  
9 you see with your senses are not necessarily  
10 the telling factor in your dose reconstruction.

11          **MS. MUNN:** Yeah.

12          **DR. NETON:** You also have to remember these  
13 people may have a -- their statements may have  
14 a bearing on the outcome of their coworker's  
15 claim, so they may be reluctant to chime in  
16 with -- with the facts. And the one or two  
17 that I'm aware of -- I sat in on some of these  
18 calls and it's -- it's interesting. For  
19 instance, a guy in his CATI would claim that he  
20 received 5,000 millirem per quarter dose or  
21 something of that nature, and he was insistent  
22 that this was his exposure. Well, all facts of  
23 the issues, his dosimetry and what he did for a  
24 living, didn't come close. So we'd call the  
25 coworkers and say does this make senses to you

1           that these fields may have been there or  
2           something to that effect, and the person was  
3           reluctant to verify but eventually did verify  
4           that no, these levels were nowhere near -- near  
5           that -- that type of exposure. So you know,  
6           they come into play in those very unique type  
7           situations.

8           **MS. MUNN:** Yeah.

9           **MS. ROBERTSON-DEMERS:** This is Kathy DeMers --

10          **MR. GRIFFON:** I -- I -- like I said, I think,  
11          you know, you should consider maybe in this  
12          procedure having some sort of -- of triggers,  
13          and I'm not saying -- I agree with Stu that,  
14          you know, they -- they're certainly not going  
15          to help in all cases, but if you had some sort  
16          of guidelines in this procedure of what -- what  
17          triggers -- what -- what would potentially  
18          trigger a coworker interview, it might be  
19          helpful.

20          **MS. ROBERTSON-DEMERS:** This is Kathy DeMers. I  
21          agree with Mark that we need to develop some  
22          triggers, but I wanted to kind of make you  
23          aware of something that I -- I checked out. I  
24          went and I reviewed several survivor interviews  
25          that had been done in the last year, and about

1           50 percent of them don't know coworkers, so  
2           they don't provide them, you know.

3           **MR. GRIFFON:** Right, right.

4           **MS. ROBERTSON-DEMERS:** So my question to NIOSH  
5           is have you retrieved organization charts from  
6           these facilities so that you might determine  
7           who the coworkers are?

8           **MR. HINNEFELD:** No, we haven't.

9           **DR. NETON:** No. You've got to look where we've  
10          defaulted for coworker distributions. As you  
11          know, we tend to take a broad stroke -- broad  
12          brush approach to this and develop site-wide  
13          distributions of coworkers and assign either  
14          the 95th or 50th percentile of all the  
15          monitored population. We feel it'd be very  
16          difficult to get down in the organization chart  
17          level --

18          **MS. MUNN:** Uh-huh.

19          **DR. NETON:** -- and assign a plumber coworker to  
20          another plumber. They're just -- it's fraught  
21          with uncertainty --

22          **MS. ROBERTSON-DEMERS:** Well --

23          **DR. NETON:** -- and issues.

24          **MR. GRIFFON:** Especially when they move around  
25          in jobs, too.

1           **DR. NETON:** When they move around and --

2           **MS. ROBERTSON-DEMERS:** -- I guess what I was  
3 getting at is that in the cases where they  
4 haven't identified coworkers and you need a  
5 coworker interview, that may be one mechanism  
6 to identify coworkers.

7           **DR. BEHLING:** Or RWPs if they had instituted  
8 RWPs in those days.

9           **MS. MUNN:** A lot didn't.

10          **MR. GRIFFON:** Yeah. I mean I would agree with  
11 Kathy's comment that -- you know, some -- some  
12 that I've talked to, they tend to remember  
13 often who their -- their spouse went to work  
14 with and -- and commuted with more than who  
15 they actually worked with when they were in the  
16 plant, so sometimes coworkers can mean  
17 different things to -- you've got to be kind of  
18 careful that they're -- they're just not  
19 commuting together and they're actually working  
20 in the similar areas, so I'm not -- I'm not  
21 suggesting that it's always going to be the,  
22 you know, sort of a fountain of information.  
23 But I think -- you know, I think it's  
24 worthwhile at this point maybe establish some  
25 sort of triggers that, you know, could be

1           considered by the dos-- you know, how you  
2           phrase it is up to you, but you know, triggers  
3           to consider for coworker interviews. I think  
4           that might flesh this topic out a little bit.

5           **MR. PRESLEY:** Mark, this is Bob Presley. I  
6           agree with you, but I don't think a tremendous  
7           amount of emphasis is going to -- that needs to  
8           be put on this, and the reason being is when --  
9           like you said, when they -- when they tell you  
10          that they have a -- who the coworker is, a lot  
11          of times they don't even know where the  
12          coworkers are alive or not. And if you're  
13          talking -- especially to a spouse of a deceased  
14          person, the elderly --

15          **MR. GRIFFON:** Yeah.

16          **MR. PRESLEY:** -- I mean it's -- it's good to  
17          have something like that in there that says,  
18          you know, has a coworker been contacted, but I  
19          really wouldn't put a whole lot of emphasis on  
20          that.

21          **MR. GRIFFON:** Well, the other -- the other  
22          thing I noted was coworker follow-up versus  
23          coworker follow-up interview. I mean I could  
24          see an instance where, you know, three  
25          coworkers were identified during the interview

1           and there's some discrepancy in the CATI versus  
2           the person's records. And I said well, let me  
3           look in the identified database and look these  
4           other people up to see if they actually were in  
5           this same area and they were actually receiving  
6           bioassay as opposed to this person -- you know  
7           -- you know, why -- why do I have this  
8           discrepancy, so you can follow up without  
9           actually calling them up.

10          **MR. PRESLEY:** Right, right.

11          **MR. GRIFFON:** You know, you can sort of check  
12          coworker records, but --

13          **MR. PRESLEY:** That's correct.

14          **MR. GRIFFON:** -- yeah. But I think -- I -- I  
15          mean -- not to cut this topic off, but I think  
16          maybe, you know, that -- that all falls under  
17          the concept of some sort of -- of triggering  
18          devices for coworker follow-up, and I think  
19          that should be considered -- my opinion,  
20          anyway.

21          **MR. PRESLEY:** I -- I agree, it should be  
22          considered, but I don't agree that it's a  
23          earthshaking thing here.

24          **MR. GRIFFON:** Right, I don't mean to suggest  
25          that, either.

1           **DR. WADE:** Might I suggest a brief break,  
2           Wanda, if that's okay? We're --

3           **MS. MUNN:** I think that would be wonderful.

4           **MR. GRIFFON:** I think we all got agreement on  
5           that one.

6           **MR. PRESLEY:** Be fabulous.

7           **DR. WADE:** Back in -- back by 10:00.

8           **MR. GRIFFON:** Ten o'clock? Okay.

9           **MS. MUNN:** Uh-huh.

10          **MR. PRESLEY:** I'm going to cut off and then  
11          I'll come back on the phone.

12          **MS. MUNN:** Thank you.

13          **MR. GRIFFON:** Me, too. Thanks.

14          (Whereupon, a recess was taken from 9:50 a.m.  
15          to 10:05 a.m.)

16          **DR. WADE:** Larry is a little late joining us,  
17          but let's pick up where we left off, Mark or  
18          Wanda.

19          **MS. MUNN:** Go, Mark.

20          **MR. GRIFFON:** I think we're on Proc. 5, finding  
21          5-03 -- some of these I think we've covered  
22          already, but we might as well go through them  
23          in order just to make sure we don't miss  
24          anything. But Stu, maybe you can pick up on 5-  
25          03?

1           **MR. HINNEFELD:** Well, 5-03 to me is -- I mean  
2 we've talked about this before --

3           **MR. GRIFFON:** Right.

4           **MR. HINNEFELD:** -- it's preparation of the  
5 claimant. We've kind of given our -- our  
6 position on that.

7           **MR. GRIFFON:** Okay, and I think we've covered  
8 it with our -- with our action on the  
9 subsequent item.

10          **MS. ROBERTSON-DEMERS:** Mark, can I add  
11 something here?

12          **MR. GRIFFON:** Sure.

13          **MS. ROBERTSON-DEMERS:** One of the things that I  
14 noticed in the interview is the very  
15 complicated language -- like radiation-  
16 generating devices -- and there needs to be  
17 some explanation, perhaps in the glossary that  
18 is sent out, to explain what that is, 'cause  
19 people know X-ray units. They don't know  
20 radiation-generating devices.

21          The other thing is we're not really looking for  
22 the interviewer to coach an individual, but to  
23 provide information without coaching. And I  
24 have an example of an interview that was  
25 actually put together by ORAU for the Y-12

1           beryllium worker surveillance and it actually  
2           allows -- it provides information that will  
3           make it easier for the claimant to answer the  
4           question.

5           **MR. GRIFFON:** Well, along those lines, Kathy, I  
6           -- I have -- I've had similar suggestions from  
7           the medical surveillance programs that are  
8           around the country. But as Jim Neton stated  
9           earlier, we have this OMB-approved interview  
10          with an approved script, and I'm not sure how -  
11          - how far we can stray upon that without -- you  
12          know, and then if we go for a -- modifying  
13          that, you know, how long would that take, how  
14          many interviews are already done that it  
15          wouldn't anymore, and I guess there's a lot of  
16          questions.

17          **MS. ROBERTSON-DEMERS:** Well, that's a question.

18          **MR. GRIFFON:** Yeah.

19          **MS. ROBERTSON-DEMERS:** I'm going to go ahead  
20          and give Stu and Wanda a copy of this so they  
21          can see what I'm talking about, and it's just  
22          further information for them to consider.

23          **MS. MUNN:** That'd be helpful. Do you have it  
24          in electronic form?

25          **MS. ROBERTSON-DEMERS:** Yes.

1           **MS. MUNN:** If you can send it to us  
2           electronically, then I'll see that the rest of  
3           this working group gets it.

4           **DR. NETON:** I've got a question for Larry. If  
5           that's generated by ORAU as a non-government  
6           agency, are they subject to OMB requirements,  
7           as well?

8           **MR. ELLIOTT:** Yes.

9           **DR. NETON:** They are?

10          **MR. ELLIOTT:** As our contractor working on --

11          **DR. NETON:** No, I'm talking about ORAU, as an  
12          independent contractor to the government --

13          **MS. MUNN:** For the beryllium.

14          **DR. NETON:** -- doing it on their own as a  
15          contract -- for beryllium work, for example --  
16          would that still -- I'm just curious, I don't  
17          know.

18          **MS. MUNN:** I don't know if it does, either.

19          **MR. GRIFFON:** Good question.

20          **DR. NETON:** You know what I'm saying? If --

21          **MR. ELLIOTT:** You've lost -- you've lost me, I  
22          guess.

23          **DR. NETON:** If ORAU as a -- who is  
24          administrating a -- under a contract to DOE --

25          **MR. ELLIOTT:** Yeah.

1           **DR. NETON:** -- apparently that's what this is,  
2           are they then still required to file OMB-  
3           clearance paperwork?

4           **DR. WADE:** My understanding would be if -- if  
5           they are taking the action under a contract  
6           with the federal government, they're required.

7           **DR. NETON:** Okay.

8           **MS. MUNN:** That was my understanding.

9           **DR. NETON:** I just didn't know that.

10          **MR. ELLIOTT:** They don't have an OMB-approved  
11          date on this, which I would have suspected they  
12          should have had.

13          **DR. NETON:** See, that was my question. I don't  
14          know --

15          **MS. MUNN:** Which makes you nervous to begin  
16          with.

17          **DR. NETON:** -- how this really works, whether  
18          this is a --

19          **MR. ELLIOTT:** It's DOE, too, so --

20          **DR. NETON:** Yeah, I was just curious about  
21          that.

22          **MR. HINNEFELD:** I believe we can in -- we can  
23          in fact modify the --

24          **MR. ELLIOTT:** Yes.

25          **MR. HINNEFELD:** -- the questionnaire and go

1 back to OMB and get (unintelligible) approval  
2 of a modified questionnaire. It's not out of -  
3 - out of the question --

4 **MR. ELLIOTT:** Yes, we just --

5 **MR. HINNEFELD:** -- to modify the questionnaire.

6 **MR. ELLIOTT:** We have just finished obtaining a  
7 renewal of OMB approval on the CATI  
8 questionnaire. There were some modifications  
9 made in that renewal, and we can certainly put  
10 forward additional revisions, as -- as we see  
11 the need to do so.

12 **DR. WADE:** You cannot circumvent the OMB intent  
13 by issuing a contract. Now you can by -- by  
14 enlisting the services of a third party that's  
15 not operating under a contract. Not  
16 circumvent, but you're no longer required --

17 **DR. NETON:** Right.

18 **DR. WADE:** -- but...

19 **MR. ELLIOTT:** Well, when the government brings  
20 a burden to bear on an individual citizen, if  
21 we ask more than -- ten or more, we have to  
22 have OMB approval for collecting when we  
23 provide a burden to the claimants, whether it's  
24 us or our contractor.

25 **MS. ROBERTSON-DEMERS:** Mark, this is Kathy. In

1           this particular questionnaire, for example, it  
2           gives a list of job titles -- which would have  
3           to be really job categories if you wanted to  
4           make it applicable to all sites -- and it  
5           allows them to say yes or no, he was a  
6           machinist, or he was an engineer. And that  
7           would be somewhat helpful to the survivors.  
8           Also people are more familiar with general  
9           terms like did -- did your spouse work at  
10          accelerator or did they work at a reactor, et  
11          cetera, and if we ask these questions it just  
12          provides them with a little bit more  
13          information without actually coaching the  
14          interviewee.

15         **DR. NETON:** Well, you know we already have the  
16         DOL application that shows that where they --  
17         what their job was every year at the sites  
18         where they -- you know, to the extent they  
19         could answer the information, and the interview  
20         actually starts with that. You said you were  
21         an electrician at Oak Ridge from this year to  
22         this year, that kind of stuff. So it's a  
23         little different. It's not starting, you know,  
24         from scratch I guess. It's not a de novo  
25         interview (unintelligible).

1           **MS. ROBERTSON-DEMERS:** Yeah, you know, I -- I  
2           just give this as an example. Because it's --  
3           it has to do with beryllium it would definitely  
4           have to be modified, but it's just a mechanism  
5           that you can sort of provide information  
6           without coaching.

7           **DR. WADE:** We appreciate that.

8           **MS. MUNN:** Yeah. I'll see the other members of  
9           the working group get a copy of this and try to  
10          make some judgment as to how much of it is not  
11          the kind of thing that isn't already covered on  
12          the original paperwork that our folks do.

13          **MS. ROBERTSON-DEMERS:** I think as far as work  
14          location, it would be very helpful if -- if  
15          they had did he work at a reactor, did he work  
16          at an accelerator, did he work in a chemical  
17          processing plant -- you know, some generalized  
18          terms that might actually mean something to  
19          them.

20          **MS. MUNN:** Uh-huh. An awful lot of places I  
21          can think of -- I'm thinking of some of the  
22          employers that we've just gone through over the  
23          last year or so, and it would never have  
24          occurred to me, for example, to include a  
25          question like did he work at a rolling mill. I

1           would never have thought about a rolling mill  
2           in terms of radiation exposure. I guess how  
3           complete such a list could be might be an  
4           issue, too.

5           **MR. GRIFFON:** I guess -- and maybe I -- I mean  
6           I -- I'm looking ahead at these findings, and  
7           to me the -- the other question here is, you  
8           know, to what extent can the -- can the  
9           interviewer use a -- a sort -- I'm going off of  
10          what Wanda said, the rolling mills. I mean I  
11          could see not -- not even site-specific, but  
12          type of operation specific, and a lot of these  
13          uranium facilities are very similar and they  
14          have similar terminology and -- you know, but  
15          to what extent can the interviewer stray from -  
16          - from the script, quote/unquote, to -- to  
17          elicit -- you know, to sort of pull information  
18          out of the interviewee. And I think the answer  
19          I got before was you can't stray very much.

20          **MS. MUNN:** Well, yeah, and -- and it's been so  
21          long since I've looked at the original  
22          questionnaire that we have approved, I'd have  
23          to go back and look at that by comparison to  
24          what Kathy's proposing here and see --

25          **MR. PRESLEY:** This is Bob Presley. I agree.

1 If you start getting into specifics, you're --  
2 if -- if y'all remember what Jim Neton had here  
3 not too long ago, it was about 30-something  
4 pages of job titles --

5 **MS. MUNN:** Uh-huh, I remember that.

6 **MR. PRESLEY:** -- if you get into that,  
7 somebody's going to be reading job titles for  
8 four or five days. I don't think we want to do  
9 that.

10 **MS. ROBERTSON-DEMERS:** Well, ORAU has -- at  
11 least for Y-12 -- kind of developed job  
12 categories, but as Jim was saying, you know,  
13 it's not so much the job titles because they're  
14 available. It's -- it's general working  
15 location -- for example, the employee interview  
16 has a list of radionuclides.

17 **MR. PRESLEY:** Of what?

18 **MS. ROBERTSON-DEMERS:** Of --

19 **MS. MUNN:** Radionuclides.

20 **MS. ROBERTSON-DEMERS:** -- radionuclides. If  
21 you could do a similar thing for general  
22 location and design it so that it would be  
23 understandable to someone who is likely not  
24 told any details about their spouse's work.  
25 You know, they would know that he worked at say

1 a reactor, but they wouldn't know that he  
2 worked out at Hanford in -- at N reactor, or  
3 that he moved between reactors.

4 **MS. MUNN:** Yeah, it may be helpful. I'll --  
5 I'll undertake as a responsibility to get a  
6 copy of this to the other members of the  
7 working group and I'll go back and try to take  
8 a look at our original questionnaire, which I  
9 haven't looked at in three years I think, and -  
10 -

11 **MR. GRIFFON:** I guess my -- I guess part of the  
12 reason I was thinking of these interviewer  
13 cheat-sheets, if you will, was, you know, that  
14 -- that, you know, because of the restrictions  
15 or the time -- you know, the time it might take  
16 to modify an OMB-approved interview, not to  
17 mention the fact that we've done so many of  
18 these already -- NIOSH has done so many of  
19 these already --

20 **MS. MUNN:** Yeah.

21 **MR. GRIFFON:** -- that you already have a system  
22 full of CATI interviews, and to drastically  
23 modify your interview approach now, I don't  
24 know if that's -- if that's realistic --

25 **MS. ROBERTSON-DEMERS:** Well, I guess --

1           **MR. GRIFFON:** -- but -- but I mean I was  
2           thinking if -- if, you know, as a -- a sort of  
3           stop-gap measure that, you know, site-specific  
4           cheat-sheets would be -- I'm agreeing with you,  
5           Kathy, in principle, but I'm thinking what can  
6           we do at this stage of the game to maybe  
7           instead of just -- I think these -- in my  
8           opinion, anyway, the interviews are a bit too  
9           passive and -- and certain -- certain --  
10          certain memory -- memory triggers may be  
11          helpful in -- in this process of pulling out  
12          information. Maybe not even -- from the  
13          survivors it's even more unlikely, but from  
14          former workers. You say certain buildings and  
15          not even the building number -- official  
16          building number, sometimes it had a --  
17          **MS. ROBERTSON-DEMERS:** (Unintelligible), right.  
18          **MR. GRIFFON:** -- a name they used for the  
19          building, you know, and they say oh, yeah, you  
20          know, where -- I worked on that -- in that  
21          building for four years, you know, and it -- it  
22          may not be captured in the job title  
23          information 'cause it may just say machinist,  
24          but they may have worked, you know, in several  
25          areas around and they may have very impli--

1 very different implications as far as  
2 exposures, so I'm -- I'm with you there. The  
3 question I have is, you know, if -- what can we  
4 -- how can we sort of effectively enhance the  
5 process now without turning the whole thing  
6 upside -- you know, I mean I think we have a  
7 lot of existing interview data and how can we  
8 improve it now or enhance it now as opposed to  
9 changing the whole -- the whole interview  
10 itself, the -- you know, the construct.

11 **MS. ROBERTSON-DEMERS:** Mark, this is Kathy. I  
12 don't think that we necessarily have to change  
13 the interview. I -- I think we could use  
14 cheat-sheets or site-specific sheets to trigger  
15 memories.

16 **MR. PRESLEY:** This is Bob Presley. Let me ask  
17 a question to Stu or Jim Neton. Have you all  
18 had any type of comments back from your  
19 interviewers that they need this type of  
20 information?

21 **MR. HINNEFELD:** If I'm not mistaken, they do  
22 get kind of continuing education sessions,  
23 continuing training --

24 **MR. PRESLEY:** That's what I remember.

25 **MR. HINNEFELD:** -- sessions for the

1 interviewers to address things like that, but I  
2 guess I -- I don't -- I've not heard from the  
3 interviewers, but I don't know that I'm in a  
4 position where I would have heard it. You  
5 know, if they're making those comments, I don't  
6 know if I would have heard them.

7 **MR. PRESLEY:** As I remember, though, before  
8 they are -- are let out on their own to be an  
9 interview, they get some formal training on the  
10 sites they're going to be working on. Is that  
11 not correct?

12 **MR. HINNEFELD:** To be honest, I don't really  
13 know exactly.

14 **MR. PRESLEY:** Okay.

15 **MR. HINNEFELD:** Do you know, Dave?

16 **DR. NETON:** I think they get -- they do get  
17 some basic radiation background training if  
18 they're not, you know, a technical person, but  
19 I don't think it'd be possible to give them  
20 education on all 200 sites we're trying to --

21 **MR. PRESLEY:** No -- no, no --

22 **MR. GRIFFON:** But that -- that's -- yeah, but -  
23 -

24 **MR. ALLEN:** They get some familiarization with  
25 the complex. I'm not sure if do site by site.

1           **DR. NETON:** Right.

2           **MR. ELLIOTT:** ORAU has a process in place,  
3           don't they, where they bring in a person who  
4           can answer the claimant's issue or question?

5           **MR. HINNEFELD:** They have -- they have health  
6           physicists, if you're talking about during a --

7           **DR. NETON:** A closeout (unintelligible) --

8           **MR. HINNEFELD:** -- a closeout (unintelligible).

9           **DR. NETON:** -- a closeout interview, but during  
10          their regular CATI interview, I'm sure they  
11          could bring a health physicist in, but I don't  
12          think that's been formalized.

13          **MR. HINNEFELD:** I -- I don't know.

14          **DR. BEHLING:** Is there an attempt to put  
15          certain cases to a select interviewer --  
16          meaning that if there's a Savannah River Site  
17          and you have the option of going down the line  
18          but I know you've done them before, you're  
19          going to keep getting them because as you  
20          progress, as you experience the interview  
21          process over and over again, you'll become  
22          certainly much more adept in understanding the  
23          process for the interview if you stick with one  
24          site as opposed to just randomly saying who's  
25          next and throw them a case.

1           **MR. HINNEFELD:** Yeah, I -- I don't know if  
2           they've tried to do that or not. I would  
3           suspect you'll have -- that would be a pretty  
4           difficult scheduling activity for them, for  
5           this reason. The claimant -- the interviews  
6           occur, to a large extent, in chronological  
7           order as -- you know, in the order that the  
8           claims came in. And so scheduling -- so you're  
9           essentially -- the sites you're going to talk  
10          to essentially dictated by situation outside  
11          your control. In other words, what order you  
12          got them in. Scheduling an interview isn't the  
13          easiest thing in the world. You know, you send  
14          them a letter saying we're going to call you  
15          and schedule an interview, and then you call  
16          them and you schedule an interview and you set  
17          the schedule. And so they're scheduled at the  
18          convenience of the claimant, so you have -- you  
19          know, so you have a time -- interview block  
20          that pops up that is then when the claimant is  
21          available to talk, and so now you have -- now  
22          you're faced with the further problem now of  
23          trying to match your -- your interviewer for  
24          the site where this person worked and have them  
25          available at that time. So the scheduling

1           would get really cumbersome. I would bet they  
2           try. I would bet they try to do that because -  
3           - Joe has interviewed several Savannah Rivers,  
4           let's try to keep him on Savannah River -- I  
5           bet they try, but I bet it's not rigorous  
6           because of scheduling problems. That would be  
7           my judgment.

8           **MS. ROBERTSON-DEMERS:** Can we get some further  
9           information on --

10          **MR. HINNEFELD:** Well, I can. I can.

11          **MR. ELLIOTT:** I think it's safe to say, though,  
12          that things have changed over time. In the  
13          early days when they were doing interviews, I  
14          think they had more people on staff doing  
15          interviews, and they were doing them very fast.  
16          I think as we proceed through the time line of  
17          doing dose reconstructions over the course of  
18          the last three years and compare what happens  
19          in those time frames, we're probably doing  
20          interviews a little bit differently now because  
21          we're only doing about 100, 150 a week. Right?

22          **MR. HINNEFELD:** Probably.

23          **MR. ELLIOTT:** You know, at one time they were  
24          doing 300, 400 a week.

25          **MR. HINNEFELD:** Quite a few.

1           **MR. ELLIOTT:** So I'd just offer that. Keep  
2           that in mind. You'll see different names  
3           associated with different time periods.

4           **MS. ROBERTSON-DEMERS:** Well, we -- we brought  
5           up connecting, you know, familiarity with the  
6           site profiles, and this would be one way to  
7           kind of limit the scope that they would have to  
8           be familiar with. They should at least read  
9           through the site description.

10          **DR. NETON:** I think these are all great  
11          suggestions, and I'm all for -- for improving  
12          our process at every step along the way. But I  
13          think we've got to -- got to look at the bigger  
14          picture here, and is there real evidence that  
15          the DRs are biased due to inadequacies in the  
16          interview process. I mean are we working on  
17          some -- some factual basis that shows us that  
18          this process is just flat-out not working and  
19          we need to embark on wholesale changes? I mean  
20          improvements are great. I think we should  
21          tweak them as we go, but I'm not sure that the  
22          -- that the interview process is --

23          **MR. GRIFFON:** No, I --

24          **DR. NETON:** -- completely broken, and -- and  
25          this --

1           **MR. GRIFFON:** And Jim, there's also the other  
2 side of this, too, which is that, you know, for  
3 -- for all good reasons, we're into this  
4 interview process now. But when -- when the --  
5 when the people being interviewed are  
6 frustrated by it, then that's another prob--  
7 you know --

8           **DR. NETON:** Yeah, I --

9           **MR. GRIFFON:** -- another side of it.

10          **DR. NETON:** Right.

11          **MR. GRIFFON:** So you know, we've got to  
12 consider that, too.

13          **DR. NETON:** I definitely agree with that aspect  
14 --

15          **MR. GRIFFON:** Yeah.

16          **DR. NETON:** -- and we need to communicate  
17 better. But as far as the site knowledge and  
18 educating people on all the specific sites, I  
19 think we need to be careful about, you know,  
20 committing a lot of resources to something that  
21 may or may not be a value-added effort. That's  
22 all I'm saying.

23          **MS. ROBERTSON-DEMERS:** I guess what we're  
24 really after is just a general familiarity with  
25 the site. For example, with Savannah River

1           that they would be aware that there were  
2           reactors, that there was a sep-- separation  
3           facilities, that they worked with tritium and  
4           that they did uranium fabrication, kind of --  
5           kind of that level of familiarity, just so...

6           **MS. MUNN:** This is Wanda. Perhaps it wouldn't  
7           be unreasonable to ask that -- that the  
8           interviewers who have claims from a specific  
9           site perhaps read one segment of the -- of the  
10          site profile that defined what -- what -- the  
11          segment of the site profile that tells us  
12          what's there. That -- that might not be an  
13          unreasonable -- would that be a logical  
14          compromise point? 'Cause it's not -- those --  
15          the summaries aren't that long, and the summary  
16          of the site description.

17          **MR. ALLEN:** For the major DOE sites.

18          **MS. MUNN:** For the major DOE sites, yes.

19          **MR. ALLEN:** I mean we have a lot of sites we  
20          don't have site profiles for.

21          **MR. GRIFFON:** Right, right.

22          **MS. ROBERTSON-DEMERS:** Well, the other thing  
23          is, Mark, that you mentioned having a site-  
24          specific sheet in the hands of the interviewer  
25          when they're doing the interview, and that

1           would provide them with some knowledge, also.  
2           And that can be developed from the site  
3           description.

4           **MS. MUNN:** Well, yeah, but we get back to the  
5           issue of resources again, and the resources  
6           being who's going to develop that, and if it's  
7           -- if it needs to be more -- if it needs to be  
8           more focused than the summary of what's  
9           available in the site profile, then who's going  
10          to do that and how much time is that going to  
11          take? Or is it just reasonable to say --  
12          suggest that -- that interviewers read the  
13          summary of the site profile and get a feel for  
14          what's there? That's --

15          **MS. ROBERTSON-DEMERS:** Well, that certainly  
16          would be an improvement.

17          **MS. MUNN:** -- better than...

18          **MS. ROBERTSON-DEMERS:** And then they'd gain  
19          knowledge, again, if you had a particular  
20          interview -- interviewer assigned to a series  
21          of sites. That would limit the amount of -- of  
22          reading that they would have to do.

23          **MS. MUNN:** But I think we just identified that  
24          we don't have interviewers working on specific  
25          sites. Right? That --

1           **DR. NETON:** We're not sure of that.

2           **MR. HINNEFELD:** We're not sure.

3           **DR. NETON:** We don't really know.

4           **MR. ELLIOTT:** What we are talking about here is  
5 process, and certainly we're interested in  
6 hearing, you know, how we can improve the  
7 process. But when we make those  
8 considerations, we have to examine, you know,  
9 what -- what the need was that's driving a  
10 process change and will that need result in --  
11 in more benefit and use of resources than not.

12          **MS. MUNN:** Yeah, you have to have --

13          **MR. ELLIOTT:** So I'm glad to hear these --  
14 these comments.

15          **MS. MUNN:** So how did we resolve that?

16          **MR. GRIFFON:** Yeah, I'm sorry, I was just -- I  
17 mean, you know, there -- there's two things,  
18 this -- this question of assigning interviewers  
19 to certain sites or types of sites, I guess I  
20 would --

21          **MS. ROBERTSON-DEMERS:** Yeah.

22          **MR. GRIFFON:** -- you know, maybe make a  
23 category like that, and I know the scheduling -  
24 - I understand what Stu said, the scheduling  
25 difficulties, but it might be -- some way that

1           -- that the procedure can be revised to say  
2           that, you know -- I mean this may be a  
3           recommendation from the Board and, you know,  
4           this is just open for discussion, but you know,  
5           that, you know, NIOSH will attempt, within  
6           scheduling constraints, to, you know, try to do  
7           something like that where they try to put --  
8           put certain interviewees toward certain  
9           interviewers. I think that lends to the  
10          credibility of a program, too, that -- you  
11          know, as a person becomes more knowledgeable  
12          about a site, the -- you know, this is -- this  
13          is sort of the face of the NIOSH program for  
14          that claimant, so you know, when they're  
15          talking to the person if they get the sense  
16          right off that they have no idea what processes  
17          or buildings or areas they're talking about --  
18          we've heard this in public comment that, you  
19          know, they got a draft back from their CATI  
20          interview and the person wrote down words that  
21          were completely wrong. They were mentioning  
22          one process and the person obviously didn't  
23          know what process they were mentioning 'cause  
24          they wrote down a completely different thing,  
25          and that -- that takes away from the program's

1           credibility, I think.

2           That's one thing maybe that this scheduling can  
3           be done, to -- to the extent possible, to sort  
4           of tie certain interview -- certain sites to  
5           certain interviewers. And a second thing might  
6           be that some sort of enhanced training  
7           requirement -- you know, that we recommend  
8           training for the -- the sites that the  
9           interviewer is likely to cover. Again, this is  
10          to the extent practical -- you know, I think,  
11          and it would have to be for the larger sites or  
12          for, you know, like AWE uranium sites all in  
13          one lump training session, you know, something  
14          like that, that they've got an overview at  
15          least of the major processes at some of the  
16          major sites that they're likely to cover as an  
17          interviewer.

18          **MS. MUNN:** But Mark --

19          **MR. GRIFFON:** That might (unintelligible).

20          **MS. MUNN:** -- this is Wanda, and again, I -- I  
21          continually am concerned about our resource  
22          limitations here. And I'm also concerned about  
23          what we've already been told today about the  
24          Board's instruction to NIOSH to do the best  
25          they can to address these on a first come,

1 first served basis, to try to work off the  
2 older cases first. And if we're going to try  
3 to do that, then to add to that the -- oh, by  
4 the way, you should have -- you should assign  
5 these cases to individuals who already know  
6 something about that site or who have worked  
7 with a significant number of people from that  
8 site, then you're very likely getting yourself  
9 into a situation where you can't match where  
10 Peter's going with where Paul's going. It's  
11 just --

12 **MR. GRIFFON:** Well, that's why -- I guess maybe  
13 I didn't qualify it strong enough, but there's  
14 why I think you need to -- and -- and I  
15 wouldn't write a "shall" statement in this  
16 procedure. I would say, you know, that it --  
17 it's, you know -- this -- this is kind of, you  
18 know, if scheduling allows, we will, you know,  
19 funnel the -- you know, but certainly you want  
20 -- you want to provide the claimant with the  
21 interviewer at their -- you know, when they can  
22 do it, they -- you know, it's sort of  
23 contingent upon their schedule more than on --  
24 on NIOSH staff schedule or -- or ORAU staff  
25 schedule, so you're -- you know, you're not

1 going to always get that match, but -- but to  
2 the extent possible you'll try to match certain  
3 interviewers with certain sites or types of  
4 sites, you know. I don't know, that -- that's  
5 just a suggestion, you know, and --

6 **MS. MUNN:** Can we say that's possible, Larry?

7 **MR. ELLIOTT:** Well, let me just offer this. I  
8 think -- you know, there's two things that can  
9 happen here and certainly we find this is -- as  
10 a good discussion and I hear constructive  
11 criticism and I'm sure that we will take this  
12 back and we'll talk it over with Kate Kimpan  
13 and the ORAU team and let them know that you'll  
14 -- you folks have brought these thoughts to the  
15 table. And you know, that's one thing that  
16 will happen. We will talk -- talk about these  
17 comments.

18 The other thing that can happen is -- and we  
19 would welcome, you know, a Board discussion on  
20 this, and if you have a Board recommendation to  
21 make, we would be happy to hear that.

22 **MR. GRIFFON:** Right, at this point this is just  
23 a workgroup, yes, so -- you know.

24 **MS. ROBERTSON-DEMERS:** Is it possible for us to  
25 see the DOE complex training module?

1           **DR. NETON:** I think so. We can -- I don't see  
2 why you shouldn't be able to.

3           **MR. GRIFFON:** I didn't hear that comment,  
4 Kathy.

5           **MS. ROBERTSON-DEMERS:** I was asking to see the  
6 DOE complex training module that they receive.

7           **MR. GRIFFON:** Oh, okay.

8           **MS. MUNN:** And Jim said he thought that was  
9 possible.

10          **MR. GRIFFON:** Yeah, I think that's probably out  
11 there on the O drive on the training --

12          **DR. NETON:** I'm not sure.

13          **MR. GRIFFON:** -- 'cause -- yeah. Okay, well --

14          **MR. ELLIOTT:** We have to be careful -- we have  
15 -- we'll -- just for the record, we'll have to  
16 look into this, Kathy, 'cause I'm not sure the  
17 training materials have been deemed under the  
18 contract to be business confidential or not, so  
19 --

20          **DR. NETON:** (Unintelligible)

21          **MR. ELLIOTT:** -- I don't believe so, but we'll  
22 have to look at that.

23          **MS. ROBERTSON-DEMERS:** Do you have handouts  
24 that you give the trainees?

25          **DR. NETON:** I believe they do. It was at least

1 a full day class, if not longer. I've  
2 forgotten. It's been a while since -- I'm  
3 aware that --

4 **MR. ALLEN:** They had several days worth of  
5 training and this was one piece of it. There  
6 was, you know, Privacy Act, et cetera, there  
7 were all kinds of training and --

8 **DR. NETON:** Yeah, it was a fairly --

9 **MR. ALLEN:** -- I really don't remember any  
10 details on this particular one.

11 **MS. ROBERTSON-DEMERS:** Well, that might be an  
12 alternative if you run into that issue.

13 **DR. NETON:** We'll look into it and see and get  
14 back to you, see what we can -- can give you  
15 (unintelligible).

16 **MR. GRIFFON:** I think -- I think at this point  
17 this brings us down to Proc. 05-08, finding 08,  
18 unless I missed something. I mean I think we  
19 covered sort of the find-- the discussions in  
20 five -- four, five, six and seven.

21 **MS. MUNN:** Yeah, and I -- I hesitate at this  
22 juncture for us to make any specific  
23 recommendation to the Board in this regard  
24 while SC&A and NIOSH are still talking about  
25 it, simply because I'm not at all sure that the

1 process is broken. And if it's not broken,  
2 then --

3 **MR. PRESLEY:** Don't fix it.

4 **MS. MUNN:** -- then perhaps simple tweaks and a  
5 little more communication will resolve it.

6 **MR. GRIFFON:** Yeah, I think at this point what  
7 I would do to the Board, Wanda, if it's okay,  
8 is report back that, you know, we had these  
9 discussions on these items and some possible  
10 recommendations discussed were as follows, but  
11 we -- we wanted to, you know, do more follow-up  
12 first before we would make these  
13 recommendations --

14 **MS. MUNN:** Yeah.

15 **MR. GRIFFON:** -- so just sort of bring this  
16 discussion to the full Board on these items and  
17 not bring any specific recommendation yet, I  
18 guess.

19 **MS. MUNN:** Yeah.

20 **MR. PRESLEY:** Mark, this is Bob Presley. I  
21 don't know if you'd even want to say they're  
22 recommendations. At this point they're  
23 discussions.

24 **MR. GRIFFON:** Right.

25 **MR. PRESLEY:** And that these are the items

1           being discussed and we will bring them back to  
2           the Board at a later date.

3           **MS. MUNN:** If necessary.

4           **MR. PRESLEY:** Right, and there's -- you know,  
5           you've got some legal ramifications in here,  
6           too.

7           **MR. GRIFFON:** Right, that's fine. Okay.

8           **MR. HINNEFELD:** Are we leaving it then that we  
9           should get with ORAU to go over these -- this  
10          list of suggestions --

11          **MR. ELLIOTT:** I think we should share -- share  
12          what we've heard with ORAU.

13          **MS. MUNN:** Yeah.

14          **MR. HINNEFELD:** -- and get some additional  
15          feedback from them on terms of the impact of  
16          implementing some of these things. And maybe  
17          they have things in place that they feel meets  
18          the intent of these that we -- sitting here  
19          today, I just don't know about. So I think  
20          there's probably additional information for us  
21          to get from ORAU with respond -- with respect  
22          to --

23          **MR. GRIFFON:** And maybe a sense on this  
24          question of who's doing -- if there are certain  
25          people that are doing certain interviews for

1 sites. I mean we're not sure that that's not  
2 taking place --

3 **MR. HINNEFELD:** That's right. I mean they --  
4 they could be able to provide us -- well, this  
5 is what we're doing, you know, and so we may  
6 actually have a better -- you know, a better  
7 response than --

8 **MR. GRIFFON:** So maybe that's a fol-- follow-up  
9 --

10 **MR. HINNEFELD:** -- what we're able to put  
11 together for this.

12 **MR. GRIFFON:** -- item would be that -- that  
13 ORAU would give us a little more specific  
14 response on these discussion topics.

15 **MR. ELLIOTT:** It would certainly help us if  
16 somebody would frame the need, you know, that -  
17 - that's being addressed here. What's --  
18 what's driving this? Is it -- is it -- you  
19 know, is it -- well, I won't frame that for  
20 you. I think you need to frame that for us.  
21 I'm certain that ORAU will want to hear what --  
22 you know, well, what are we trying to fix here?  
23 I mean --

24 **MS. MUNN:** Yeah.

25 **MR. ELLIOTT:** -- certainly there are things

1           that you've heard in this conversation that  
2           are, you know, good things to do and right  
3           things to do and we should take those up and  
4           get them done.

5           **DR. MAURO:** Larry, this is John Mauro. I was  
6           thinking about the same thing you brought up.  
7           You know, we've reviewed a number of -- I guess  
8           where we've done 60 and we're working on the  
9           next 20, so we'll have 80 actual cases  
10          reviewed, and in each case we looked at the  
11          CATI. I think that in order to put I guess  
12          some legs to this one, the question becomes out  
13          of -- out of the 80 cases that we've reviewed  
14          to date, are there many places where we felt  
15          that there was some deficiencies related to  
16          either the interviews -- the CATI interview  
17          data and how it was followed up on that might  
18          have been important to the dose reconstruction.  
19          At least that would give us some kind of  
20          quantitative sense of whether we're gilding the  
21          lily or not.

22          And Hans, is that something we can put  
23          together? That is, out of the 80 cases, how  
24          many -- and this would a judgment call of  
25          course on our part -- how many where we felt

1           that either the CATI interview was done in  
2           accordance with some of the things we've been  
3           talking about may have added significant value  
4           that could have had a substantial effect on the  
5           dose reconstruction, or perhaps some follow-up  
6           work, like the coworker aspects, that might --  
7           that perhaps coworker follow-up should have  
8           been done in that case because it was -- it  
9           would have added some value. Is that something  
10          we can do to help out here?

11         **MR. ELLIOTT:** Before Hans or Kathy answers  
12          that, let me give them time to think and just  
13          ask this. You used a couple of different  
14          phrases there, John -- "significant  
15          difference", "important difference in the dose  
16          reconstruction", do both of those equate to a  
17          change in the decision on the dose  
18          reconstruction --

19         **DR. MAURO:** You know, that's a -- that's great  
20          question.

21         **MR. ELLIOTT:** -- and that's where we come from.

22         **DR. MAURO:** We -- I -- I wouldn't say it would  
23          change the decision, abso-- in other words, we  
24          would not be looking at it from that  
25          perspective. But I think we would look at it

1 from the point of view do we think that there  
2 could have been a substantial change in the  
3 doses, whether --

4 **MR. ELLIOTT:** So -- so does that --

5 **DR. MAURO:** -- or not that would change the  
6 compensation --

7 **MR. ELLIOTT:** -- equate to --

8 **DR. MAURO:** -- decision, I don't think we'd  
9 want to go there.

10 **MR. ELLIOTT:** -- to -- do -- could we say that  
11 equates to a change -- a 20-plus percent change  
12 in dose reconstruction --

13 **DR. MAURO:** I wish I could --

14 **MR. ELLIOTT:** -- the POC or --

15 **DR. MAURO:** -- answer that question.

16 **DR. BEHLING:** Well, let me make an attempt. To  
17 date, of the 80 audits that we've done, there  
18 may have been a couple of instances where a  
19 CATI report would have potentially made a  
20 difference that might have affected the dose,  
21 to some extent. It's uncertain. Sometimes,  
22 you know, the -- the ability to decipher what  
23 might have come had a line of inquiry been  
24 pursued by the dose reconstructor that would  
25 resolve a potential conflict between what was

1           stated in -- by -- in -- by the interviewee  
2           versus the DOE records, the outcome of that is  
3           difficult to quantify, John. But I believe,  
4           really, the -- the CATI report oftentimes is --  
5           is done for multiple reasons, and I don't want  
6           to understate the importance, but it's really  
7           for the optics, it's for the public relations,  
8           it's for a number of things. But in truth, I  
9           don't believe I've seen too many cases where  
10          what was perhaps a deficiency in the CATI  
11          report would translate into a significant  
12          change in the dose reconstruction. And since  
13          most of the cases to date we've seen do in fact  
14          involve maximized dose reconstructions, the  
15          question -- as we've always said up front -- is  
16          if you find a deficiency and the person was in  
17          fact shortchanged, let's say in a number of  
18          missed neutron dosimeter cycles that were  
19          awarded, and then you realize that oh, my God,  
20          they gave him a hypothetical of 28 radionuclide  
21          internal, that translates to an organ dose of  
22          18 rem; well, the truth is, yes, the neutron  
23          dose might be significantly increased, let's  
24          say by one or two rem, but at the same time the  
25          gift of 18 rem would be withdrawn the minute

1           you approached 50 percent. So it's one of  
2           those catch-22s where yes, the dose will  
3           change, but there is so much maneuverability  
4           built into the maximized dose reconstruction  
5           process that when you approach the 50 percent  
6           value there is so much taken back again that's  
7           potentially going to adversely impact the  
8           overall dose to the point where you end up with  
9           less as a result of an improvement in another  
10          area.

11         **MR. ELLIOTT:** You know what I would think would  
12         tell us the most on this would be some blind  
13         dose reconstructions. If we had somebody else  
14         -- if we had you -- take the information that  
15         we used and do a blind, or even use the -- you  
16         know, do a --

17         **DR. BEHLING:** Yeah.

18         **MR. ELLIOTT:** -- dose reconstruction on the  
19         ones you've identified that you have concerns  
20         about in this regard, how would it turn out?

21         **DR. BEHLING:** Yeah, we've discussed it in some  
22         of the previous instances where we've been  
23         asked the question, would it change. And I  
24         keep saying yes, the doses might change, but  
25         again, the -- the possibility exists that

1           there's so much maximized dose that has been  
2           assigned that can be readily taken away again  
3           the minute you approach a 50 percent POC value,  
4           and so you end up with less than what you  
5           started off.

6           **MR. GRIFFON:** At least on the ones reviewed so  
7           far.

8           **DR. BEHLING:** Yes, yes.

9           **DR. MAURO:** What I'm -- what I'm hearing --

10          **MR. GRIFFON:** Let me -- let me -- John, let me  
11          just say that in the first 20 report that we --  
12          that I thought we submitted but apparently it's  
13          not gone in yet, there's a section, ongoing  
14          concerns, and Computer Assisted Telephone  
15          Interview is topic one. And I might refer  
16          everybody to that paragraph that -- and it says  
17          in several cases -- case 6, 8, 10, 11 and 12,  
18          that's 25 percent of the first 20 -- SC&A  
19          reviewers indicated that there was either  
20          inadequate follow-up on items raised in the  
21          CATI interview, or that incidents identified  
22          were not considered in the DR report.

23          Now as -- that -- that doesn't change Hans's  
24          point that, you know, most of these cases were  
25          maximi-- you know, probably wouldn't have

1 affected the outcome, but it was raised, at  
2 least as a concern --

3 **DR. BEHLING:** Yes.

4 **MR. GRIFFON:** -- in 25 percent of the first  
5 set.

6 **MS. BEHLING:** In fact --

7 **MR. GRIFFON:** So -- and I think a big part of  
8 that is not only deficiencies, but of this --  
9 this inconsistency question, you know, that if  
10 -- if a person in the interview says that he  
11 had bioassay all the time and that the DR  
12 report comes out and says the person was not  
13 monitored by bioassay, you know, wait a second,  
14 that should raise a flag to me, you know, at  
15 least that may deserve a follow-up to make sure  
16 that we're not missing something major. And it  
17 may still be that the dose assigned was -- was  
18 maximizing, but to the claimant receiving that  
19 back, they're going to say wait a second, I got  
20 bioassay all the time. This thing says I never  
21 got it; they don't know what they're talking  
22 about.

23 **MS. BEHLING:** Exactly.

24 **MR. GRIFFON:** You know, so that -- that's --  
25 that's a big part of the concern, I think.

1           **DR. BEHLING:** Yeah, it's the optics, Mark.

2           **MS. BEHLING:** Yeah.

3           **MR. GRIFFON:** Yeah, the optics, right.

4           **MS. BEHLING:** And in fact, Mark, we could  
5 easily go down through the matrix and look at  
6 our numbering system on the matrix for all  
7 three of the sets of cases and quickly identify  
8 how many times -- I think it's B-4 -- was  
9 identified and that would tell us an  
10 inconsistency between the interview and what  
11 NIOSH used in the dose reconstruction.  
12 I guess --

13           **MR. GRIFFON:** Well, maybe we should bring that  
14 back to the discussion next time, too, as well,  
15 Kathy, that -- as an action for SC&A --

16           **MS. BEHLING:** Okay, that's --

17           **MR. GRIFFON:** -- to bring that information.

18           **MS. BEHLING:** -- that's easy enough to do. If  
19 -- if I can just give my thoughts also, though,  
20 with regard to -- we keep talking about what's  
21 broken with the interview process. I believe  
22 what -- what SC&A's point here is not so much  
23 what's broken, but I believe what I'm hearing  
24 is -- and Kathy and Mark, is that we really  
25 want to try and -- and level the playing field

1           between the survivor and -- you know, the  
2           interview that's done with the survivor as  
3           opposed to the actual employee. And I think  
4           that is a lot of our concern, also. We realize  
5           this process -- you can't -- you can be fair  
6           with this process, and we just think it's not  
7           quite as fair as it could be to the survivor.  
8           And everything that's being suggested here I  
9           think is in -- is items that should help or --  
10          help that survivor get through this interview  
11          process and make that interview process more  
12          meaningful to the dose reconstructor.

13          (Unintelligible) Yes? No?

14          **MR. GRIFFON:** Yeah, I -- I think so.

15          **MS. BEHLING:** I think I hear the same thing.

16          **MR. GRIFFON:** I think we've kind of exhausted  
17          this discussion topic maybe.

18          **DR. MAURO:** But Mark, before we move on on  
19          this, I did have a thought that I think is  
20          important. It has to do with what I call a  
21          metric for satisfaction. Right now, as I  
22          understand it, after the letter goes out --  
23          let's say denying a claim -- it's my  
24          understanding that there is no phone call, or  
25          is there, to the claimant explaining to him on

1 the phone what -- what was done and why the  
2 decision was made to deny. Am I correct in  
3 that assumption?

4 **MS. ROBERTSON-DEMERS:** There is a closeout  
5 interview, John.

6 **UNIDENTIFIED:** Closeout interview.

7 **DR. MAURO:** There's a closeout -- and that -- I  
8 thought the closeout interview was after the  
9 dose reconstruction --

10 **UNIDENTIFIED:** That's right.

11 **DR. MAURO:** -- started, or is it after the  
12 actual decision is made regarding granting or  
13 denying the -- the -- the claim?

14 **DR. NETON:** I don't want to speak for the  
15 Department of Labor, but I don't think they  
16 call them after a letter goes out denying the  
17 claim.

18 **DR. MAURO:** Now I only bring this up for one  
19 reason. I think that -- right now we've been  
20 talking a lot about the use of the interview  
21 process as a way of getting good information to  
22 help us do -- do good dose reconstructions.  
23 And we've only marginally talked about the use  
24 of the interview process as a way of  
25 engendering confidence on the part of the

1 claimants that the process is in fact working.  
2 I believe that there is a need for a metric  
3 that will allow NIOSH and the Board to get a  
4 sense of whether or not confidence in the  
5 program is increasing or decreasing as a result  
6 of the ongoing program. I don't -- I don't  
7 know if there's a way to do that readily,  
8 except perhaps a phone call to the ones who  
9 have -- who received the letter, whether it's  
10 both the ones who were granted and denied, and  
11 ask them, do you feel as if you've been treated  
12 fairly and that we were thorough and do you  
13 feel confident that the decision that was made  
14 was appropriate in your case. I would -- I  
15 mean -- and a measure of that as a function of  
16 time as a way to judge whether or not the thing  
17 -- all the things that we're all doing are in  
18 fact creating confidence. I think that's very  
19 important 'cause I think half of the -- the  
20 interview process is engendering confidence and  
21 the other half of course is getting good  
22 information to help us do good dose  
23 reconstructions. And we've been paying too  
24 little time to -- to the former, and all of  
25 this discussion was really geared toward, you

1 know, making sure we're getting enough and good  
2 information.

3 **DR. WADE:** I think when the Board discusses  
4 this we have to be clear that we understand  
5 roles and responsibilities, the NIOSH role  
6 versus the DOL role in terms of, you know,  
7 making those decisions. But I think the point  
8 is well made and understood.

9 **MS. MUNN:** And this is Wanda. I may be a  
10 little less than hopeful about that, but my  
11 guess would be that in most cases anyone who  
12 has received a positive response will say they  
13 were treated fairly. Anyone who has received a  
14 negative response will think that they were not  
15 treated fairly.

16 **MR. GRIFFON:** I'm not sure it'll cut that --  
17 that straight, but -- you know, but --

18 **MS. MUNN:** Pretty close.

19 **MR. GRIFFON:** -- you're probably right on --  
20 you're probably right on the positive ones.

21 **MS. MUNN:** Pretty close.

22 **MR. GRIFFON:** Yeah.

23 **MS. ROBERTSON-DEMERS:** Actually let me just  
24 share some feedback I've gotten during  
25 interviews. They're not really looking at what

1           cancers are being compensated and all. They're  
2           looking at -- well, Fernald has been  
3           compensated, so many of the people at Fernald  
4           have been compensated, and they're comparing  
5           that with other facilities that have a higher  
6           percent and they're wondering why. Why aren't  
7           we receiving compensation -- as a group.

8           **MS. MUNN:** Yeah.

9           **MR. GRIFFON:** Right.

10          **MS. MUNN:** Any -- anybody who -- certainly  
11          anyone who knows anything at all about the  
12          existence of an SEC is going to question that.

13          **MS. ROBERTSON-DEMERS:** Sure.

14          **MR. GRIFFON:** That's right, yeah.

15          **MS. MUNN:** So?

16          **MR. GRIFFON:** Well, can we go on to finding  
17          nine, Proc. 5, finding nine.

18          **MS. MUNN:** Yeah.

19          **MR. GRIFFON:** I have a question on that,  
20          without having the full report in front of me.  
21          It says that NIOSH would consider the revisions  
22          -- or revising based on the comments, but I  
23          think there's a whole list of specific comments  
24          in that section. Am I -- am I right about  
25          that?

1           **MS. MUNN:** Yeah, there's --

2           **MS. ROBERTSON-DEMERS:** You're right.

3           **MS. MUNN:** -- a whole bunch of them, whatever  
4 the gaps were.

5           **MS. ROBERTSON-DEMERS:** I -- I looked -- I've  
6 been looking at the most recent version of the  
7 questionnaire, and they have made some  
8 improvements, but it's not all-encompassing of  
9 the suggestions that were made in the review.

10          **MS. MUNN:** Were the most significant points  
11 covered, do you think, Kathy? 'Cause I don't  
12 know what the most significant points were.

13          **MS. ROBERTSON-DEMERS:** Well, just as an -- just  
14 as an example, we said that you hadn't included  
15 in vivo counting and now it's included. I  
16 think that's going to be part of the review of  
17 Procedure 90.

18          **MR. HINNEFELD:** I think that the revisions that  
19 were made to the questionnaire actually  
20 occurred independent of this procedures find--  
21 of the report of the procedures review, so  
22 there are -- there are a lot of suggested items  
23 in the review -- in the procedure review  
24 report. I think that it would serve well to  
25 have -- to me, the logical audience are the

1           dose reconstructors, and are there things that  
2           -- or at least at that CATI as to these  
3           questions, would we have a better product, a  
4           better compilation of information available to  
5           you at the time you do the dose reconstruction.  
6           So we think there's probably some -- some merit  
7           to taking a look at the -- at the interview  
8           form and -- to see if there's some adjustment  
9           that should be made, so -- again, that --

10          **MR. GRIFFON:** I think this goes back to our  
11          earlier discussions, doesn't it, of -- you  
12          know, just whether -- what -- whether are you  
13          can change the interview, to what extent you --  
14          you know, if you have to get OMB approval to  
15          change the interview --

16          **MR. HINNEFELD:** Well, we would have to do that.

17          **DR. NETON:** Yeah.

18          **MR. GRIFFON:** Yeah, or can you -- can you have  
19          notes to assist the interviewer, and to what  
20          extent will these be effective in -- in the  
21          whole DR process. Is it really worth the time  
22          and effort, so I think if -- we covered a lot  
23          of this in the earlier discussions, didn't we?

24          **MS. MUNN:** I think so.

25          **MS. ROBERTSON-DEMERS:** Yeah.

1           **MS. MUNN:** I'm not sure whether there's any  
2           action to produce some kind of an outstanding  
3           list of what has not yet been addressed that  
4           remains a concern.

5           **MS. ROBERTSON-DEMERS:** I think that will come  
6           with the review of Procedure 90.

7           **MS. MUNN:** Okay.

8           **MR. GRIFFON:** Well, I guess maybe an action on  
9           -- on it -- it -- OCAS says here they will  
10          evaluate revising, so maybe, you know, a -- a  
11          detailed account of that evaluation would be  
12          useful.

13          **MS. MUNN:** Well, I thought I was hearing that  
14          the revisions had been done or had been  
15          incorporated in 90 or 92. Did -- did I not  
16          hear that?

17          **MR. HINNEFELD:** Well, the --

18          **MS. MUNN:** I heard the wrong thing?

19          **MR. HINNEFELD:** -- the interview --

20          **MR. GRIFFON:** That's the procedure versus the  
21          interview.

22          **MR. HINNEFELD:** Yeah, there's -- there's a  
23          questionnaire. There's an interview  
24          questionnaire.

25          **MS. MUNN:** Yeah.

1           **MR. HINNEFELD:** That's what we're talking about  
2 taking a look at, seeing, you know, with the --  
3 there's quite a number of them suggested in the  
4 proce-- in the report, in SC&A's report when  
5 they reviewed the procedures. There's quite a  
6 number of things that -- an example of things  
7 that maybe should be included in the interview  
8 questionnaire. And so what we're saying here  
9 is we will -- we will take a look at those and  
10 maybe -- and other things. You know, we've got  
11 dose reconstructors who've done 12,000 dose  
12 reconstruction reports. Maybe they have their  
13 own ideas about it would be --

14           **MS. MUNN:** Yeah.

15           **MR. HINNEFELD:** -- you know, it would be good  
16 for the CATI to ask these things, as well, and  
17 decide, you know, are we getting the  
18 information we want. Now once we decide that,  
19 then the process of revising the questionnaire  
20 will take a long time because there'll be the  
21 OMB clearance requirement in order to get the  
22 questionnaire changed. So -- you know, so --  
23 you know, weighing -- we'll have to weigh is  
24 the additional information that we would get  
25 from the revised interview and the -- for dose

1 reconstructions, is that enough -- you know,  
2 significant enough change we want to go ahead  
3 and pursue that, knowing full well that it'll -  
4 - maybe a year before we actually start  
5 gathering it in interviews.

6 **MS. MUNN:** Yeah, the real question is is it  
7 worth it and do we have the -- the resources to  
8 do it, what'll it buy us when it's all done.

9 **MR. HINNEFELD:** Well, I think we can -- you  
10 know, we can take a -- the first step, the  
11 evaluation step, we should be able to do. I  
12 mean the eval-- the evaluation step is just  
13 sort of process improvement that you do all the  
14 time. You know, what are we doing and are  
15 there ways to improve it. I mean that's just  
16 something that we should all be doing, so I  
17 don't mind doing the evaluation part. Now I  
18 can't promise an outcome of what will happen in  
19 the evaluation part.

20 **MS. MUNN:** Good, an evaluation will occur and  
21 we will take a look at it.

22 **MR. HINNEFELD:** Right.

23 **MS. MUNN:** Good.

24 **MR. GRIFFON:** That sounds good.

25 **DR. WADE:** And maybe for the record, Hans has

1           used the word "optics", the optics of the  
2           process. The Board needs to decide the advice  
3           it wants to offer on the scientific quality of  
4           the dose reconstruction, and then consider  
5           whether it wants to comment on the optics of  
6           the process. And those are very different  
7           issues. And again, I think the Board needs to  
8           discuss that and decide the advice it wants to  
9           offer.

10          **MS. MUNN:** When people are saying optics today,  
11          optics to me means something that my  
12          optometrist does or how I see a thing. Are we  
13          talking about the appearance --

14          **DR. BEHLING:** Yes.

15          **MS. MUNN:** -- of things --

16          **DR. WADE:** I think that's how Hans used the  
17          term.

18          **MS. MUNN:** -- to --

19          **DR. BEHLING:** Yeah. And I -- and I think  
20          people feel that they're an integral part of  
21          the process and that may have an emotional --  
22          it's like a doctor who's a very good doctor,  
23          but doesn't explain to his patient what the  
24          problem is. The patient feels short-changed,  
25          that he's not part of the process, even though

1 he is not -- as a medically-qualified person to  
2 affect the diagnosis or the treatment of his  
3 problem. But in just simply discussing it with  
4 the patient, there's a tremendous amount of  
5 benefit that the patient receives from having  
6 had the benefit of the discussion.

7 **MS. MUNN:** So you're saying how does this look  
8 to the claimant --

9 **DR. BEHLING:** Yes.

10 **MS. MUNN:** -- specifically when you're saying  
11 optics. Okay, how does --

12 **MR. PRESLEY:** This is Bob Presley. You want to  
13 say perception.

14 **MS. MUNN:** Yeah, the client's perception --

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

16 **MS. MUNN:** -- specifically, because how the  
17 outside world sees it and how a senator sees it  
18 is an entirely different thing to how the  
19 claimant sees it, so --

20 **DR. WADE:** And that -- and that's separate from  
21 the issue of the quality of the dose --

22 **MS. MUNN:** Yes.

23 **DR. WADE:** -- reconstruction.

24 **MR. PRESLEY:** That's right.

25 **DR. WADE:** It's not that it's not valid.

1           **MS. MUNN:** No.

2           **DR. WADE:** But they're different issues and the  
3 Board needs to decide how it wants to advise.

4           **MR. GRIFFON:** Well, yeah, it's separate from  
5 the -- it -- it's definitely separate from the  
6 scientific validity of the -- of the DR. Maybe  
7 it's part of the quality --

8           **DR. BEHLING:** Well, the one thing that --

9           **MR. GRIFFON:** -- (unintelligible)

10          **DR. BEHLING:** The one thing I was going to ask  
11 is when -- when you look at the regulations and  
12 you look under the section of hierarchy of  
13 data, we talk about obviously number one is the  
14 records themselves that take priority over  
15 everything else, and then you have obviously  
16 coworker data, and then you have source term  
17 reconstruction. I find nothing that is  
18 critically related to the CATI report as a  
19 source of information that is entered into this  
20 hierarchy for dose reconstruction. I think  
21 this is perhaps where a problem comes in at  
22 where the people who are being interviewed feel  
23 that they have a critical role to play, but all  
24 too often they don't perceive that that has had  
25 any impact on the dose reconstruction process

1           because the regulations don't even address it.

2           **DR. NETON:** Well, I'm not sure about that,  
3           Hans. I mean it clearly says in the  
4           regulations that the claimant's assertions will  
5           be taken at face value unless they can prove  
6           them to be essentially false, so it's -- the  
7           burden is on us to take the CATI interview and  
8           demonstrate conclusively that what they said  
9           can't be true.

10          **DR. BEHLING:** Well, in that case we're  
11          delinquent because if there are issues, for  
12          instance, that says there are no records for  
13          you to have been monitored internally because  
14          they're simply not there, and the CATI report  
15          states that yes, I was monitored externally and  
16          I was faithfully monitored internally, I -- I  
17          don't see there --

18          **DR. NETON:** But we're not -- we're not required  
19          to go back and obtain those records if they do  
20          not exist, but I think the dose reconstruction  
21          would demonstrate that we were -- we used data  
22          that -- a valid substitute for those datapoints  
23          that we couldn't obtain. We're not arguing the  
24          fact that he wasn't monitored. We don't -- we  
25          don't assert that he wasn't monitored if we

1           couldn't obtain those monitoring records, and  
2           we're using a substitute for that.  It's --  
3           we're not -- it's a little different issue, I  
4           think.

5           **DR. BEHLING:**  Well, in most instances the --  
6           the report usually states that while they -- if  
7           they acknowledge that there is a discrepancy,  
8           the assumption is always that well, we gave you  
9           the 12 or 28 and that should take care of it.

10          **DR. NETON:**  Right, and that brackets on --  
11          that's a bracketing surrogate bounding approach  
12          that we've adopted.  I don't think there's  
13          anything inconsistent with that in our  
14          regulations.

15          **MR. ELLIOTT:**  Is it your sense that the -- the  
16          people that we interview and the claimants we  
17          give a dose reconstruction report to don't  
18          realize and understand that all of the data  
19          that we've collected, including the CATI,  
20          including the DOE submittals to us, including  
21          all correspondence, is all rolled up into what  
22          is called a -- we call it an analysis file that  
23          supports the dose reconstruction report?  Are  
24          we -- are we missing our audience on that  
25          point?

1           **MR. GIBSON:** Could you say that again, Larry?  
2           I didn't hear you.

3           **MR. ELLIOTT:** Well, I'm wondering whether or  
4           not, you know, the claimants just see the dose  
5           reconstruction report and think that's the end  
6           of, you know, the NIOSH effort and that's all  
7           that the NIOSH effort is going to say about  
8           their claim, when in fact we give over to the  
9           Department of Labor what we call a full  
10          analysis record, an AR, and that's what you  
11          folks have been reviewing. You know, it's all  
12          of that information. I'm just wondering if the  
13          claimants don't realize that and that's part of  
14          the problem they think their CATI has not been  
15          used. We -- I -- I grant you we don't give  
16          enough credit in the report to say here's how  
17          your CATI information was used or not used.  
18          It's -- it's just a -- it's a hand-off. It's a  
19          throwaway, almost. It's -- and we could do a  
20          better job in speaking about what we used or  
21          didn't use there and why, but maybe they missed  
22          the point that we've given all of that  
23          information up.

24          **MS. ROBERTSON-DEMERS:** I think that --

25          **MR. GRIFFON:** I -- I think what Stu said

1 earlier is -- is -- and that's why we're --  
2 we're waiting to see the -- the revision of the  
3 -- the DR report language, the boilerplate  
4 language, 'cause this -- this kind of was  
5 brought up in the first set of cases, you know,  
6 and I think you're right that -- that there was  
7 -- it wasn't -- it wasn't that, as Jim said,  
8 most of these cases, you know, would have  
9 bounded any incidents that they were involved  
10 in, but the fact that they per-- you know, they  
11 thought they provided information that wasn't  
12 even considered, and it wasn't brought up in  
13 their DR report, then they thought well, why am  
14 I even bothering giv-- you know, so I think --  
15 I think to some extent you -- you -- I think  
16 you have probably -- I mean we haven't seen the  
17 final draft yet, but you've -- you've taken  
18 that into account and -- and are modifying the  
19 DR report language so I think that -- that's  
20 helpful.

21 **DR. NETON:** Yeah, that -- that's a very  
22 difficult concept to explain. I mean they --

23 **MR. GRIFFON:** Right.

24 **DR. NETON:** A person has a very personal impact  
25 of what happened to them at the site. A good

1 example is this -- this assertion of many  
2 people at Savannah River that they ate nuts and  
3 berries and it wasn't addressed in the dose  
4 reconstruction. Now most health physicists  
5 look at that and say there's millirem involved  
6 here, very trivial. But to them it's a very  
7 real thing and it needs to be addressed and  
8 brought out, and we've learned our lesson there  
9 and gone back and gone out of our way now to  
10 try to communicate that. But that's a very  
11 small example, but that happens many times in  
12 all these dose reconstructions I think.

13 **MS. MUNN:** You'll get a lot of that at Hanford,  
14 too.

15 **DR. NETON:** Yeah, environmental exposures or  
16 some --

17 **MS. MUNN:** Uh-huh.

18 **DR. NETON:** -- some particular incident strikes  
19 out -- strikes a person's mind that even if  
20 they were --

21 **MS. MUNN:** He ate the fish all the time, yeah.  
22 Uh-huh.

23 **DR. NETON:** We can certainly do a better job  
24 there.

25 **MR. HINNEFELD:** Well, kind of on the topic of

1 finding number ten here, which is information  
2 from the CATI being used, there's been an  
3 evolution of the language in the dose  
4 reconstruction reports that today we are much  
5 more attentive to -- if -- you know, whatever  
6 the claimant relates in the CATI is addressed  
7 in some fashion in the dose reconstruction  
8 report in the dose due to incident section.  
9 You know, they assert this and they assert  
10 that, and we discuss them in there. We may say  
11 things like the -- the hypothetical intake that  
12 was assigned was certainly bounding for the  
13 situation that the claimant is describing here.  
14 But we have in fact -- we are now, today, a lot  
15 more attentive to that specific issue, is what  
16 the claimant told us in the CATI addressed in  
17 some fashion in the dose reconstruction. We're  
18 a lot more attentive to that today than we were  
19 say two years ago or two and a half years ago  
20 in the dose reconstructions that were being  
21 done at that time. So -- I mean the fact that  
22 we haven't come out with our new modified dose  
23 reconstruction that we think will improve  
24 communication to the claimant doesn't mean we  
25 haven't made language changes along the way

1           that have tried to improve the  
2           understandability in -- of these -- of these  
3           topics. So I am thinking -- you know, while  
4           the procedure -- well, Procedure 5, which is --  
5           you know, that work in Procedure 5 is executed  
6           well before the dose reconstruction is done, so  
7           you can't really put in Procedure 5, you know,  
8           the requirement to explain why you didn't  
9           include some of the information in the dose  
10          reconstruction. I think we're kind of  
11          addressing that now. I think --

12         **MR. GRIFFON:** Right, I think back in --

13         **MR. HINNEFELD:** -- we're making sure we hit  
14          that now.

15         **MR. GRIFFON:** -- your DR report comment, you  
16          know, you -- modifications as you've gone  
17          along, yeah.

18         **DR. BEHLING:** Can I ask a question with regard  
19          to the information that you receive from the  
20          DOE in behalf of the dose reconstruction  
21          effort. Is that information shared with the  
22          claimant himself? I think it would be helpful  
23          if they saw that -- like what we get are  
24          sometimes hundreds of pages of dosimeter  
25          readings for each cycle, shallow dose, deep

1 dose, neutron components, tritium bioassays,  
2 urine bioassays, whole body counts, chest  
3 counts. If they understood that this is really  
4 the source of data that is really in many  
5 instances the full -- the driver of the dose  
6 reconstruction process, they would realize the  
7 -- the importance of that data and put their  
8 CATI information in perspective in saying well,  
9 you know, this is the best semi-quantitative  
10 information that can certainly not override the  
11 definitive and quantitative data that has been  
12 supplied by the DOE. Is that -- am I asking a  
13 question that has an answer?

14 **MR. HINNEFELD:** Yeah.

15 **DR. BEHLING:** Do people get that information?

16 **MR. ELLIOTT:** I think that's part of the  
17 script, isn't it, that they go over in part of  
18 the interview?

19 **DR. BEHLING:** But do they actually have the --

20 **MR. ELLIOTT:** They say this is what we got from  
21 DOE?

22 **DR. BEHLING:** Do they have the records  
23 themselves?

24 **MR. HINNEFELD:** The claimant -- the claimant --

25 **DR. BEHLING:** Are they entitled to get those

1 records?

2 **MR. HINNEFELD:** They're entitled -- they're  
3 entitled to it if they -- if they ask for it,  
4 they're entitled to --

5 **DR. BEHLING:** You know, I think it would be  
6 helpful if they were told listen, if you want  
7 those records, you are in the position to --  
8 under the Freedom of Information Act -- to get  
9 those records to verify the voluminous amount  
10 of information that we have had at our disposal  
11 in reconstructing your dose. And they would  
12 probably feel impressed by how much information  
13 -- in many cases, now not always, but in many  
14 cases they would be impressed by the volume of  
15 information that has been used in  
16 reconstructing their dose.

17 **MR. GRIFFON:** Do they have to go through the  
18 FOIA process to get it?

19 **MR. ELLIOTT:** Yes.

20 **MR. GRIFFON:** They do?

21 **MR. ELLIOTT:** Yes.

22 **MS. MUNN:** Yeah.

23 **MS. ROBERTSON-DEMERS:** The other thing that  
24 that would do is to help them identify gaps.  
25 For example, if the --

1           **MR. ELLIOTT:** Well, I'm sure it's part of the  
2 script that they talk about the information  
3 we've got, they talk about the years it covers,  
4 they talk about the numbers in it if the person  
5 wants to hear that and asks the question. I  
6 believe it's part of the interview, is it not?

7           **MR. HINNEFELD:** I don't -- I don't recall.

8           **MR. ELLIOTT:** It's not in the list of  
9 questions. It's one of those follow-up  
10 questions that you give as you work through the  
11 interview with the interviewee.

12          **DR. NETON:** I don't think we offer them an  
13 opportunity to issue a FOIA request, though.  
14 Nothing that (unintelligible) --

15          **MR. ELLIOTT:** If they ask, they --

16          **DR. NETON:** If they ask (unintelligible) --

17          **MR. ELLIOTT:** -- (unintelligible) directed to  
18 do.

19          **DR. BEHLING:** Does the CATI have access to the  
20 large DOE data file that comes with the dose  
21 reconstruction during the closeout interview?

22          **MR. ELLIOTT:** The CATI folks have access to --

23          **MR. GRIFFON:** Well, that's number 11 now you're  
24 on. Right?

25          **MR. ELLIOTT:** They have the access to NOCTS, to

1 the case file and (unintelligible) --

2 **MR. HINNEFELD:** You know more about the  
3 interviews --

4 **MS. ROBERTSON-DEMERS:** Yeah, but the case file  
5 --

6 **MR. HINNEFELD:** -- than the rest of us.

7 **MS. MUNN:** Yeah, I was going to --

8 **MS. ROBERTSON-DEMERS:** The case file is  
9 requested in parallel with the interview.

10 **DR. NETON:** We may not have the DOE information  
11 at that time.

12 **MR. HINNEFELD:** Right.

13 **DR. NETON:** I mean we try to get an interview  
14 out within a couple of weeks of when the case  
15 comes in. More often than not we're not going  
16 to have the DOE response in our possession at  
17 that point. Earlier on that was true when we  
18 were behind --

19 **DR. BEHLING:** It would be important to have it  
20 as part of the closeout. At that point you  
21 have come to some reasonable understanding of  
22 what the doses are and --

23 **DR. NETON:** Well, you have to be careful,  
24 because oftentimes we don't get these for  
25 individuals. We get bundled packages where

1 we're going to have to redact a lot of  
2 information to respond to a FOIA request, and  
3 then when you start offering something that you  
4 can't produce in a timely manner, you're going  
5 to --

6 **MR. ELLIOTT:** One name on 50 pages with 100  
7 other names.

8 **DR. BEHLING:** No, I realize that -- that's a  
9 problem.

10 **DR. NETON:** There are timing issues.

11 **DR. BEHLING:** That's a problem.

12 **DR. NETON:** We may have every legal right to do  
13 that and they may have every right to --

14 **DR. BEHLING:** I mean most of --

15 **DR. NETON:** -- ask for it.

16 **DR. BEHLING:** -- the dosimetry records is  
17 usually a page and has a single line that  
18 underscores that individual.

19 **DR. NETON:** Right, so that's what I'm saying,  
20 if you offer it at the time of the closeout, it  
21 could take us months to get this through the  
22 FOIA process.

23 **MS. MUNN:** It would be very --

24 **MR. GIBSON:** This is --

25 **MS. MUNN:** -- unwise.

1           **MR. GIBSON:** This is Mike Gibson. If I could -  
2           - you know, I -- I think that's probably good  
3           information to show them how intense that you  
4           go into these dose reconstructions, but to give  
5           them a two-inch stack of data, even if they go  
6           through the FOIA process, what I seem to hear  
7           from the people when they make their public  
8           comments is more of the missed dose, more of  
9           the missed incidents or the things that weren't  
10          con-- they don't believe were considered and  
11          may not have been considered, and may not have  
12          even been recorded, that -- that NIOSH doesn't  
13          have record of, rather than just showing them  
14          that you've really went through an exhaustive  
15          process of the information you do have.

16          **MS. MUNN:** But if they believe there are missed  
17          doses, and if they believe there were missed  
18          incidents, they would have reported that in the  
19          CATI. And NIOSH is required to take that into  
20          consideration. Right?

21          **MS. ROBERTSON-DEMERS:** Can I -- can I bring up  
22          something with regard to incidents? It's not  
23          always clear to people what an incident is, so  
24          some of them will compensate for it by telling  
25          everything and some of them will just flat-out

1 say no, where there may be an incident present,  
2 because they don't know what it is.

3 **MS. MUNN:** But how can we get them to...

4 **MS. ROBERTSON-DEMERS:** Well, in that case, I  
5 would add it to your terms.

6 **MR. GIBSON:** This is Mike again, Wanda, and  
7 what I -- what I meant is two things. A  
8 survivor may not know of a missed -- an  
9 unmonitored dose where I mean in an atmosphere  
10 with a radionuclide present at -- maybe once  
11 they exited the area they were bioassayed for  
12 plutonium but not for some other isotope. The  
13 claimant or the survivor may not even -- they  
14 may have, you know, known that by some other  
15 reason, and the contractor may not have done  
16 that, and NIOSH has no way of proving or  
17 disproving that that other isotope was there,  
18 and that seems to be what I hear is they -- you  
19 know, there was this incident about these  
20 unmonitored doses, these unmonitored isotopes,  
21 and you know, granted, there's no way NIOSH can  
22 go back and prove or disprove that, but that's  
23 what I hear from -- it seems like I hear from  
24 the people.

25 **MS. ROBERTSON-DEMERS:** I also ran into a

1 situation where this gentleman showed me his --  
2 his dose record, and there were a lot of zeroes  
3 in the extremity monitoring field. I think he  
4 requested it through DOE. And he says I was  
5 never monitored for that. So then seeing some  
6 sort of summarized version may help them help  
7 NIOSH by identifying missing items.

8 **MR. HINNEFELD:** Well, one of the -- the fact  
9 is, does the claimant hear this stuff? Right  
10 now some dose reconstructions will include this  
11 was what the DOE reported as your total  
12 recorded dose -- we don't do it in every one,  
13 but some of them say that. What we intend to  
14 do with the new format is to explain to the  
15 claimant what records we have. We won't  
16 necessarily say page numbers, but we'll say we  
17 have a monitoring record for you that says you  
18 were monitored for external -- you know,  
19 externally from this year to this year, and  
20 internally from this date to this date via  
21 (unintelligible) --

22 **MR. GRIFFON:** Where does -- where does -- Stu,  
23 where does that occur or when does that occur?

24 **MR. HINNEFELD:** That would be in the dose  
25 reconstruction report.

1           **MR. GRIFFON:** In the report, right, okay.

2           **MR. HINNEFELD:** And so -- so they will see --  
3 they will have the opportunity at that point to  
4 say that sounds right or this doesn't sound  
5 right, and a closeout interview -- we would  
6 have an opportunity to correct or fill in  
7 information that's missing. See, at the CATI  
8 interview we may not yet have the DOE response.  
9 We may not be able to do it at that point.

10          **MR. GRIFFON:** I'm looking at finding 11 here,  
11 at the closeout interview will the interviewer  
12 have -- then they'll have everything. Right?  
13 They'll have the full file available for them?

14          **MS. MUNN:** Yes.

15          **MR. HINNEFELD:** It's all available to them,  
16 right.

17          **MR. GRIFFON:** So at that point they -- would  
18 they likely attempt to discuss inconsistencies  
19 or is that beyond the scope of the closeout  
20 interview?

21          **MR. HINNEFELD:** Closeout interviews talk about  
22 a lot of topics and there are many -- many  
23 situations, based on a closeout interview, that  
24 require us to go back and revisit the dose  
25 reconstruction or pursue different --

1 additional information. I mean --

2 **MR. GRIFFON:** Right.

3 **MR. HINNEFELD:** -- that's not particularly  
4 uncommon for a -- for a case to get pended at  
5 closeout interview time while we try to chase  
6 down something that we were told during  
7 closeout interview.

8 **MR. GRIFFON:** Well, I'm specifically trying to  
9 get ahold of your -- get a handle on your  
10 response for finding 11. The interviewer's not  
11 required to have that DOE file with them or --  
12 or on their computer screen when --

13 **MR. HINNEFELD:** Procedure 5 is the CATI  
14 interview.

15 **MS. MUNN:** CATI.

16 **MR. GRIFFON:** Oh, it's -- oh, Procedure 5 is  
17 the CATI, that's right. Okay. So at that  
18 point they wouldn't necessarily even have --  
19 'cause that occurs before you get all that  
20 information sometimes.

21 **MR. HINNEFELD:** It can.

22 **MR. GRIFFON:** Is that what I heard? Okay.

23 **MR. HINNEFELD:** Right, it can.

24 **MS. MUNN:** Should we add a sentence to the end  
25 of that that says this is covered by the

1 closeout interview, to keep there from being  
2 any further question about whether or not  
3 that's a closed item?

4 **MR. HINNEFELD:** You mean our response?

5 **MS. MUNN:** Yeah, I'm trying to figure out ways  
6 to close out --

7 **MR. GRIFFON:** Yeah, that --

8 **MS. MUNN:** -- the items on this list.

9 **MR. GRIFFON:** -- that's what I'm thinking, too.

10 **MS. MUNN:** Okay, that one's done.

11 **MR. GRIFFON:** Can -- can you say --

12 **MR. HINNEFELD:** I can do all sorts of stuff  
13 with the NIOSH response column, yeah.

14 **MR. GRIFFON:** I mean is NIOSH -- yeah, is NIOSH  
15 willing to say this is required for the  
16 closeout interview?

17 **MS. MUNN:** Can we say that? This occurs at the  
18 closeout interview. Right?

19 **MR. ELLIOTT:** Sure, I think we can make that,  
20 can't we?

21 **MR. HINNEFELD:** I think so.

22 **MR. ELLIOTT:** That it's available.

23 **MR. HINNEFELD:** It's available.

24 **DR. NETON:** I'm not sure it's required.

25 **MR. HINNEFELD:** I don't know that it's required

1 to be at the interview, it's available to the  
2 interviewer.

3 **MR. GRIFFON:** Well, that's different.

4 Available is different than -- than requiring  
5 the interview to have it. I mean I'm not  
6 saying it's -- it's not acceptable, but I'm --

7 **MR. HINNEFELD:** I think -- I think the solution  
8 to this question about having the claimant --  
9 if the question is does the claimant know what  
10 records we had available to them, you know, on  
11 them, on the case, I think the -- the fix is,  
12 the new dose reconstruction format, when you  
13 have a section for the claimant that says this  
14 was the -- these were the monitoring records we  
15 had that the DOE sent for us -- sent on this  
16 claim, this is what was available to us  
17 (unintelligible) monitoring records. We'll  
18 probably also put in there this was your total  
19 reported dose from the Department of Energy,  
20 and with the suitable caveats because  
21 frequently the Department of Energy didn't  
22 throw in any dose from their internal  
23 monitoring. They may have a long internal  
24 monitoring record with no calculation  
25 associated with it, so we have -- we're -- we

1           have to try to ca-- we have to put in the  
2           information we want to put in without making  
3           this too long and too technical and too hard,  
4           so it's going to be a little difficult to put  
5           this together because all this stuff --  
6           everything we want to tell them has got to be  
7           caveated in some way or another. So --

8           **MR. GRIFFON:** Now -- now Stu, I agree with  
9           that. I'm -- I'm just saying it -- it would be  
10          different to -- I think if I were interviewer  
11          and I was required to have the person's full  
12          DOE with me when I did the closeout interview,  
13          that -- to me, as the interviewer -- would say  
14          well, I better -- I better darned well flip  
15          through this and -- and compare it with the  
16          CATI interview and -- and, you know, be  
17          prepared to address inconsistencies, discuss  
18          inconsistencies, et cetera -- as opposed to is  
19          available. That just tells me well, now if  
20          this guy raises some question on the phone, I  
21          might have to pull this DOE file out; otherwise  
22          I can probably just close this out.

23          **MR. ALLEN:** Well, Mark, it's important to  
24          realize -- this is Dave Allen. It's important  
25          to realize it doesn't have to be a one-shot

1 deal on this -- this closeout interview. If --

2 **MR. GRIFFON:** True.

3 **MR. ALLEN:** -- if the questions become  
4 technical, the interviewers will often tell  
5 them that they'll have to have somebody more  
6 technical call them back. They get ahold of  
7 the -- usually the HP that did the dose  
8 reconstruction and they set up a new schedule  
9 to call them back, finish it off.

10 **MS. MUNN:** Can we just close this out by saying  
11 the DOE file is available to the interviewer at  
12 the closeout interview -- at the time of the  
13 closeout --

14 **MR. GRIFFON:** That -- that -- that's -- that's  
15 what I was just discussing, Wanda.

16 **MS. ROBERTSON-DEMERS:** I think Mark's saying --

17 **MR. GRIFFON:** Available or required --

18 **MS. ROBERTSON-DEMERS:** -- that it should be a  
19 requirement --

20 **MR. GRIFFON:** -- is different, that's all, you  
21 know.

22 **MS. ROBERTSON-DEMERS:** -- that they've looked  
23 through it.

24 **MR. ALLEN:** Most claimants don't have a lot of  
25 questions on the actual file itself, so -- I

1 mean it seems --

2 **MR. GRIFFON:** Well, that -- that -- that's --  
3 that's sort of my point.

4 **MS. ROBERTSON-DEMERS:** Actually --

5 **MR. GRIFFON:** You know, my point is not to be  
6 passive but to be proactive, that the  
7 interviewer would -- would, you know, have one  
8 last look at this. I mean I know that the dose  
9 reconstructor is the primar-- you know, but the  
10 closeout interviewer --

11 **MR. HINNEFELD:** I think the only --

12 **MR. GRIFFON:** -- would also --

13 **MR. HINNEFELD:** -- way to do this and be fair  
14 to the interviewer is to have a summary of some  
15 sort, like (unintelligible) describe the dose  
16 reconstructor --

17 **MR. GRIFFON:** Right, right, right.

18 **MR. HINNEFELD:** -- because these things are  
19 hundreds of pages long. Sometimes you get the  
20 same information multiple times in different  
21 formats --

22 **MR. GRIFFON:** So they'll definitely --

23 **MR. HINNEFELD:** -- and to have it -- have the  
24 interviewer go through it and -- and be able to  
25 talk to the claimant knowledgeably about it I

1 don't think is a realistic expectation be--

2 **MR. GRIFFON:** I think you just answered my  
3 question, Stu. So the interviewer will  
4 definitely have the -- the -- this revised DR  
5 report format in front of them --

6 **MR. HINNEFELD:** Yeah.

7 **MR. GRIFFON:** -- the whole DR report --

8 **MR. HINNEFELD:** Oh, yeah, they'll have the DR  
9 in front of them.

10 **MR. ELLIOTT:** Are we still talking about the  
11 NIOSH column?

12 **MR. GRIFFON:** So -- and then the other -- the  
13 other should be available. I agree with that  
14 then, okay.

15 **MR. ELLIOTT:** Are we still --

16 **MR. GRIFFON:** 'Cause you're going --

17 **MR. ELLIOTT:** -- talking about the NIOSH  
18 column?

19 **MR. HINNEFELD:** No, no. No, no.

20 **MS. MUNN:** I am.

21 **MR. HINNEFELD:** I think --

22 **MR. ELLIOTT:** I think you are, yeah.

23 **MR. HINNEFELD:** The NIOSH column should be -- I  
24 think the resolution of the issue would be the  
25 revised DR structure and having a summary of

1 the monitoring record, what -- that we received  
2 in that, in the dose reconstruction.

3 **DR. BEHLING:** I think part of the salesmanship  
4 should be to convince the person that what has  
5 been done was done with as many records as are  
6 available. Here are the records, and there's  
7 credibility behind the dose reconstruction  
8 process, and when there are gaps or  
9 uncertainties that the individual was given the  
10 benefit of the doubt by such things as  
11 hypothetical intake, et cetera. And I think it  
12 -- it's part of the salesmanship that says we  
13 didn't fish these numbers out of thin air.  
14 They're part of a record, and when they're not  
15 part of a record we've given you the benefit of  
16 doubt by putting in missing doses for neutrons  
17 and photons and hypothetical intakes, et  
18 cetera, et cetera, and in the process perhaps  
19 assure the individual that what he has been  
20 assigned as a dose is -- is perhaps -- if it's  
21 not just fair, it's perhaps more than fair and  
22 claimant-favorable and -- and satisfy that  
23 curiosity, how did you come up with these  
24 numbers.

25 **MR. ELLIOTT:** I would say the NIOSH column

1           should say that we are going to roll out this  
2           new dose reconstruction report and implement  
3           it. To roll it out we're going to have to look  
4           at our script language that is used, not only  
5           for the CATI but for the closeout interview,  
6           and make sure that there are certain goals that  
7           is -- is to -- that are defined to be the  
8           purpose of that closeout interview. And many  
9           of what you just outlined for us, Hans, I think  
10          are central to that. I think we could commit  
11          to that, we need to look at our script, we need  
12          to carefully consider how to roll out, you  
13          know, this new dose reconstruction reporting  
14          mechanism and tool and -- and take in account a  
15          lot of what we've heard here this morning.

16          **MR. GRIFFON:** Yeah, I -- I think -- Stu, I  
17          apologize, I think you just answered number 11  
18          for me. I -- I think if -- Wanda -- I think  
19          you were saying the same thing. If we revise  
20          the NIOSH response, add on a last line saying  
21          DOE file will be available at the closeout  
22          interview, I think that satisfies it -- for me,  
23          anyway.

24          **MS. MUNN:** Just enhance it so that it meets  
25          Hans's test for bedside manner, which is really

1 --

2 **MR. GRIFFON:** Well, and --

3 **MS. MUNN:** -- what we're talking about here.

4 **MR. GRIFFON:** -- but -- and there's a  
5 difference between the DOE file and the DR  
6 report --

7 **MS. MUNN:** Yes.

8 **MR. GRIFFON:** -- and that's what I was -- I was  
9 --

10 **MS. MUNN:** Yes.

11 **MR. GRIFFON:** -- sort of merging those two, but  
12 the DR report will be in the hands of the  
13 interviewer so -- at the closeout interview, so  
14 -- and -- and the enhanced DR report will have  
15 more of this -- you know, that -- that chance  
16 for the interviewer to look down and -- and  
17 sort of look for these red flag things as  
18 they're doing the closeout interview. That's  
19 kind of what I was getting at, and I don't  
20 think you necessarily need the whole DOE file  
21 to be able to do that.

22 **MS. MUNN:** No.

23 **MR. GRIFFON:** At least with this enhanced  
24 report as described, yeah.

25 **DR. BEHLING:** In fact --

1           **MR. GRIFFON:** Right.

2           **DR. BEHLING:** -- Mark, the full DOE file,  
3           especially since in many instances will be  
4           issues involving periodic urinalysis, chest  
5           counts -- it's almost undecipherable to someone  
6           who's not familiar with the format of the  
7           records or understands their content. You  
8           can't possibly explain that to --

9           **MR. GRIFFON:** Oh, no, yeah, yeah.

10          **DR. BEHLING:** -- especially -- unless you are a  
11          dose reconstructor and bona fide health  
12          physicist, those records would mean very  
13          little. But for instance, the summary external  
14          dosimetry sheet, which does not involve other  
15          people's data, might be a very useful tool that  
16          says we have records that you were monitored  
17          for external neutrons, external photons, and  
18          these are the numbers, and these are the  
19          additional val-- assignments that we gave for  
20          those cycles where the report came back as a  
21          zero, so these are all the things that we added  
22          to that number. And I think people probably  
23          have a pretty good -- especially if it's the --  
24          he himself who's being interviewed here, he  
25          will have a pretty good understanding what his

1 lifetime dosimetry was --

2 **MR. GRIFFON:** Right.

3 **DR. BEHLING:** -- and he will get to understand  
4 that the records are accurate, that the records  
5 have been amended for missed doses involving  
6 zero or blanks, et cetera, et cetera. And I  
7 think that would probably be a very useful  
8 component as part of the closeout interview.

9 **MR. GRIFFON:** Yeah, I --

10 **MS. MUNN:** Whoa, you went static.

11 **MR. PRESLEY:** Something happened. You still  
12 there?

13 **MS. MUNN:** Yeah, we're still here.

14 **MR. GIBSON:** Hello?

15 **MR. PRESLEY:** Hello?

16 **MS. MUNN:** Hello?

17 **MR. GIBSON:** I can hear you, Bob.

18 **MR. PRESLEY:** Hey.

19 **MS. MUNN:** Mark has overwhelmed us.

20 **MR. PRESLEY:** There's a tremendous amount --

21 **MS. ROBERTSON-DEMERS:** I think we have a lot of  
22 static.

23 **MR. PRESLEY:** Tremendous amount of static on  
24 the line.

25 **MS. MUNN:** Sure is.





1 working group that looks at individual dose  
2 reconstruction reviews, procedures reviews and  
3 two site profiles -- right now we're looking at  
4 Hanford and Y-12 -- had scheduled this --

5 **MR. GRIFFON:** Rocky and --

6 **MS. MUNN:** Not Hanford.

7 **MR. GRIFFON:** -- Rocky and Y-12.

8 **DR. WADE:** Rocky Flats -- Rocky Flats, so I  
9 have -- what did I say here? Rocky Flats and  
10 Y-12.

11 **MS. MUNN:** Yeah.

12 **DR. WADE:** Have scheduled a face-to-face  
13 meeting for Cincinnati on the 27th of February.  
14 That's two weeks from today.

15 **MR. PRESLEY:** Right.

16 **DR. WADE:** Mark has raised to my attention the  
17 fact that he has a conflict on that day.

18 **MS. MUNN:** Well, fix it, Mark.

19 **MR. GRIFFON:** And I picked these days out, too.

20 **DR. WADE:** Let me -- let me throw out some  
21 options, not all of them terribly attractive.  
22 One of the things we could -- Mark has a -- a  
23 conflict -- a personal conflict on the evening  
24 of the 27th that requires him to be home.

25 **MR. GRIFFON:** Right.

1           **DR. WADE:** We could conceivably hold the  
2 meeting in Boston. We could conceivably  
3 involve Mark by telephone. We could reschedule  
4 the meeting. There are a number of options  
5 available to us. I thought we would have a  
6 discussion. Mark, do you want to say any more?

7           **MR. GRIFFON:** Yeah -- no, I mean or we could --  
8 we could move it to the week prior. I know  
9 that -- that we've got a lot to do prior to  
10 that meeting, so --

11          **MS. MUNN:** You're -- you're getting pale faces  
12 from NIOSH. I don't think they can do that.

13          **DR. NETON:** Mark, we did plan on using every  
14 day up till that meeting to try --

15          **MR. GRIFFON:** I figured that, yeah, yeah.

16          **MS. MUNN:** I don't have any problem with  
17 Boston.

18          **DR. WADE:** What about thinking outside the box  
19 and bringing the mountain to you?

20          **MR. GRIFFON:** Well, that's -- yeah, that'd be  
21 great. It's lovely this time of year. Yeah,  
22 23 inches of fresh snow in my back yard.

23          **MS. MUNN:** That's wonderful. All right. You  
24 can provide the skis.

25          **MR. GRIFFON:** Yeah.

1           **DR. WADE:** Again, this -- NIOSH -- we usually  
2 meet here 'cause it's convenient for NIOSH, and  
3 what about taking your act on the road?

4           **DR. NETON:** Well, we did -- we did plan on  
5 having a number of ORAU participants, and I  
6 don't know how that would --

7           **MR. GRIFFON:** Yeah, I know that's --

8           **DR. NETON:** -- whether they're going to be -- I  
9 guess many of them are going to be from out of  
10 town anyway, so they're going to be traveling  
11 either way, so maybe that's not --

12           **MR. GRIFFON:** The other -- the other question,  
13 Jim, maybe is if we moved in -- into like March  
14 6th. I don't know if that's too late, but I  
15 think you need more time rather than less,  
16 actually.

17           **DR. NETON:** I don't disagree with that, Mark.  
18 I mean --

19           **MR. GRIFFON:** You know, given what we talked  
20 about in the last calls, I'm -- I'm -- you  
21 know, there's a lot to be -- you know --

22           **DR. NETON:** Well, we --

23           **MR. PRESLEY:** I don't have any problem with  
24 March 6th.

25           **MS. MUNN:** Well, I have a problem with it.

1           **MR. GRIFFON:** Or that -- that week, I meant,  
2           that week in general, you know.

3           **MS. MUNN:** I have a problem with it, and one of  
4           the -- one of the problems that I have with it  
5           is you have to remember, this is not the only  
6           working group we now have.

7           **MR. PRESLEY:** Right.

8           **MR. GRIFFON:** Yeah.

9           **MS. MUNN:** And we have the NTS issues that are  
10          coming up --

11          **MR. PRESLEY:** Well, that's what I --

12          **MS. MUNN:** -- and we've already postponed that,  
13          we've knocked that off the 28th. And I guess  
14          my feeling is if we're going to start pushing  
15          this workgroup back into the 6th, then we're  
16          just really muddying the water for other -- for  
17          other workgroup schedules.

18          **MR. PRESLEY:** Well, what I was wondering about  
19          is if we pushed this thing back to the 6th,  
20          would we be able to do the 20-- the NTS on the  
21          7th? You know, that's -- that's --

22          **MS. MUNN:** I -- I've got a caucus at my house  
23          on the 7th --

24          **MR. PRESLEY:** Okay.

25          **MS. MUNN:** -- that is almost impossible for me

1 to change.

2 **MR. PRESLEY:** No problem.

3 **DR. NETON:** I've got outside meetings in Oak  
4 Ridge on the 7th and 8th both, myself.

5 **MS. MUNN:** So my -- my suggestion would be we  
6 go to Boston, if it's possible for us to do  
7 that.

8 **MR. PRESLEY:** I've got no problems coming --  
9 coming to Boston on the 27th if -- you know,  
10 if you can have this thing out at the airport  
11 where we don't have to go into town.

12 **MS. MUNN:** Yeah.

13 **MR. GRIFFON:** Yeah, there's a Hilton right at  
14 the airport. I don't know if that's the  
15 reason-- you know, I guess LaShawn will have to  
16 check that out, but...

17 **DR. WADE:** Well, let me take it as a task.  
18 We'll start to work it now and hopefully have  
19 you an answer even this afternoon.

20 **MR. GRIFFON:** All right.

21 **DR. WADE:** You know, flying to Cincinnati for  
22 some of us, or Boston, is not that different,  
23 just for the people in Cincinnati.

24 **MS. MUNN:** Yeah.

25 **MR. GRIFFON:** Right. Okay.

1           **DR. WADE:** Okay. So Larry, pursuing the  
2 possibility of a Boston meeting, acceptable?

3           **MR. ELLIOTT:** Yeah, I think we'll -- we may be  
4 limited in number of staff we'll have available  
5 to attend, but --

6           **DR. NETON:** But they'll be on the phone, for  
7 sure.

8           **MR. ELLIOTT:** -- they'll be on the phone.

9           **DR. WADE:** Okay.

10          **DR. NETON:** We'll try to get -- see what we can  
11 do.

12          **DR. WADE:** So let -- now again, for my  
13 edification, the 27th meeting was to focus on  
14 what issue?

15          **MS. MUNN:** Y-12 and Rocky.

16          **DR. WADE:** Okay, so both Y-12 and Rocky.

17          **MS. MUNN:** Yeah.

18          **DR. WADE:** Okay, I'll get to work over the  
19 lunch hour to see what we could do in terms of  
20 the Boston -- Logan Airport, and your job is to  
21 work on the snow, Mark, that's all.

22          **MR. GRIFFON:** Okay. We haven't -- it hadn't  
23 snowed all January, so I think we might be in a  
24 make-up mode here.

25          **DR. WADE:** That's encouraging.

1           **MR. GRIFFON:** Yeah.

2           **DR. WADE:** Okay, back to the much more  
3 interesting business of discussing Proc. 5.

4           **MR. GRIFFON:** Yeah. So we're on Proc. 5 item  
5 12 now. Right?

6           **MR. HINNEFELD:** I believe this is the same  
7 issue that we've talked about earlier.

8           **MR. GRIFFON:** Yeah, and I think we've covered  
9 this.

10          **MS. MUNN:** That's done, and not much you can do  
11 about that.

12          **MR. PRESLEY:** There's one comment I have on  
13 what -- what Hans had a while ago about making  
14 available the data to these people.

15          **MS. MUNN:** Uh-huh.

16          **MR. PRESLEY:** It's my perception that -- that  
17 I'd say 90 percent of the people wouldn't know  
18 what they got.

19          **MS. MUNN:** I'd say 98 percent of them wouldn't  
20 know what they got.

21          **MR. PRESLEY:** I was giving them the benefit of  
22 the doubt.

23          **DR. MAURO:** John Mauro, I'd take it a step  
24 further. I would -- I think in many cases  
25 it'll do -- cause more confusion and

1 frustration --

2 **MR. PRESLEY:** Oh, I do, too --

3 **DR. MAURO:** -- than it would --

4 **MR. PRESLEY:** -- definitely.

5 **DR. MAURO:** -- relieve.

6 **MS. MUNN:** If our -- if one of our tasks is to  
7 make the claimants comfortable, then there are  
8 times when excess information does not meet  
9 that criteria.

10 **MR. PRESLEY:** I agree.

11 **MR. GRIFFON:** Yeah, I think -- I think we're  
12 better off focusing on improving the DR report  
13 rather than -- rather than, you know, making  
14 the DOE files readily accessible. I mean --

15 **MR. PRESLEY:** I agree --

16 **MR. GRIFFON:** -- they certainly have a legal  
17 right --

18 **MR. PRESLEY:** -- 100 percent on that.

19 **MR. GRIFFON:** -- yeah.

20 **DR. MAURO:** I'd like to add, I think we need to  
21 start thinking about bedside manner side as  
22 much as we're thinking about the technical  
23 side.

24 **MR. PRESLEY:** I agree there, John. This is Bob  
25 Presley.

1           **MR. GRIFFON:** Okay. So let's -- let's move on  
2 with that -- those comments. Let's go to 13.  
3 I think we've -- we've got 12 under  
4 consideration under the other items, so -- I  
5 don't know that we can talk much more about  
6 that.

7           **MS. MUNN:** Yeah, I don't think so. Response is  
8 applicable to the earlier stuff.

9           **MR. GRIFFON:** Yeah. And number 13 --

10          **MR. HINNEFELD:** 5-13 actually has two parts.  
11 The second part, CATI has many gaps, is one  
12 that was commented on earlier. We said --

13          **MR. GRIFFON:** Right --

14          **MR. HINNEFELD:** -- we were going to  
15 (unintelligible) --

16          **MR. GRIFFON:** -- you're going to evaluate that  
17 so that falls under the evaluation step.  
18 Right?

19          **MR. HINNEFELD:** The interviewer training  
20 appears to be insufficient, at least in some  
21 cases. I think the only thing I can do maybe  
22 is provide you with a summary of the training  
23 they've received. It's not like they got their  
24 initial training and then stopped. I mean they  
25 do continuing education with them periodically,

1           and I can probably assemble a summary of it.  
2           Again -- and depending upon -- I think -- I may  
3           be naive, but I believe you'll find the  
4           interviewers, the ones who've been here for a  
5           while, and I think most of them have been here  
6           for quite a while, probably a lot more savvy  
7           today than they were two years ago when they  
8           were doing interviews, so -- but I can -- I can  
9           compile this training. ORAU feels that their  
10          interviewers are trained sufficient to the  
11          task, that they're trained to do what they're  
12          asked to do.

13         **MR. GRIFFON:** Okay. Yeah, I think providing a  
14          summary of the trai-- you know, a summary of  
15          the training would be good.

16         **MS. ROBERTSON-DEMERS:** Yeah, and we'd  
17          previously asked to see the DOE complex  
18          training module.

19         **MR. HINNEFELD:** Yeah, uh-huh. Right.

20         **DR. NETON:** If we can release it.

21         **MS. ROBERTSON-DEMERS:** (Unintelligible)

22         **MR. GRIFFON:** Okay, number 14 is the coworker  
23          question, and I think this falls under the  
24          earlier discussion of coworker triggers.

25         **MS. MUNN:** Uh-huh.

1           **MS. ROBERTSON-DEMERS:** Yeah.

2           **MR. GRIFFON:** You know, and -- and I think, you  
3 know, how that -- how that's worded  
4 specifically, but I think that should be  
5 considered, anyway -- how that's worded is up  
6 to NIO-- you know, NIOSH.

7           **MS. MUNN:** Yeah, this response seems adequate  
8 to me, based on our previous conversations  
9 about it. OCAS is going to include some extra  
10 language. Right? Isn't that --

11          **MR. HINNEFELD:** Right.

12          **MR. GRIFFON:** And that's in the DR reports, but  
13 it does-- that doesn't speak to the -- and I  
14 agree that's good, but that doesn't speak to  
15 the question of whether -- whether or not to  
16 require coworker follow-up or when to require  
17 coworker follow-up, you know.

18          **MS. MUNN:** But I thought we'd already agreed --  
19 there were earlier discussions that there was  
20 going to be an attempt to identify some  
21 criterion for that trigger.

22          **MR. GRIFFON:** Yes.

23          **MR. PRESLEY:** Right.

24          **MS. MUNN:** Didn't we agree to that?

25          **MR. GRIFFON:** That's what I'm saying, it falls

1           into that, yeah.

2           **MS. MUNN:** Yeah.

3           **MR. GRIFFON:** Yeah. I guess it's  
4           (unintelligible) --

5           **MR. PRESLEY:** As required, yep.

6           **MS. MUNN:** As required -- when required.

7           **MR. PRESLEY:** Right.

8           **MR. GRIFFON:** Okay, I think we're on to fif-- 5  
9           number 15.

10          **MR. HINNEFELD:** Off the top of my head I don't  
11          remember the details of the comment.

12          **MR. GRIFFON:** Yeah, I think they were here --

13          **MR. HINNEFELD:** I think it -- it may fall into  
14          the general discomfort with the claimant,  
15          though, with the interview questionnaire.

16          **MS. ROBERTSON-DEMERS:** Actually I --

17          **MR. GRIFFON:** It looks like it does, yeah.

18          **MR. HINNEFELD:** Do you remember?

19          **MS. ROBERTSON-DEMERS:** I think I -- I think I  
20          remember this. When you ask about an incident  
21          and they say yes, you ask for follow-up  
22          information. When you ask other questions, you  
23          don't. And this -- this would go back to  
24          reviewing, as a part of the 90 procedure, the  
25          most recent interview.

1           **MR. GRIFFON:** So does this fall under evaluate  
2           the gaps in the...

3           **MR. HINNEFELD:** Would it fit into that,  
4           evaluating gaps in the interview -- interview  
5           questionnaire?

6           **MS. ROBERTSON-DEMERS:** Yeah.

7           **MR. HINNEFELD:** Okay.

8           **MR. GRIFFON:** All right, so this falls under  
9           that earlier action, Stu. Correct?

10          **MR. HINNEFELD:** Okay.

11          **MR. GRIFFON:** All right.

12          **MS. MUNN:** Now --

13          **MR. GRIFFON:** Now we're on --

14          **MS. MUNN:** -- Proc. 17.

15          **MR. GRIFFON:** -- Proc. 17 --

16          **MS. MUNN:** Yay.

17          **MR. GRIFFON:** -- (unintelligible), Wanda.

18          **MS. ROBERTSON-DEMERS:** And actually this one's  
19          been -- been replaced by Procedure 90 --

20          **MS. MUNN:** Uh-huh.

21          **MS. ROBERTSON-DEMERS:** -- so it's going to be  
22          included in our review.

23          **MS. MUNN:** Yeah.

24          **MR. GRIFFON:** Well, they've all been kind of  
25          replaced by Proc. 90. Right?

1           **MS. ROBERTSON-DEMERS:** Yeah.

2           **MR. HINNEFELD:** Well, in this -- in this case,  
3 Proc. 90 I think added additional information  
4 that Proc. 17 didn't have.

5           **MS. ROBERTSON-DEMERS:** Right.

6           **MR. GRIFFON:** Okay. So this first one on  
7 definitions --

8           **UNIDENTIFIED:** (Unintelligible) not in here.

9           **MS. ROBERTSON-DEMERS:** I think NIOSH had said  
10 something about NIOSH providing an explanation  
11 for how they had reviewed Proc. 90 in relation  
12 to some of these concerns.

13           **MR. HINNEFELD:** I don't recall that. But we  
14 have -- but we have to --

15           **MS. ROBERTSON-DEMERS:** It was a -- it was a  
16 while back, yeah.

17           **MR. GRIFFON:** Okay, I think what -- I think  
18 you're right, Stu, that you say Proc. 90 is  
19 going to provide examples of what constitutes  
20 complete, so I think we -- we -- this is sort  
21 of -- the action on this is -- is we're going  
22 to review Proc. 90 as part of SCA's expanded  
23 scope. Right?

24           **MR. HINNEFELD:** Right. That one, I believe --

25           **MS. MUNN:** Yeah.



1           **MS. ROBERTSON-DEMERS:** In the familiarity with  
2           the complex.

3           **MR. GRIFFON:** I mean qualifications, to me, is  
4           sometimes different than just training. I  
5           don't know what SC&A meant by that,  
6           necessarily.

7           **MS. MUNN:** I think, based on what Kathy was  
8           saying, she was still concerned about whether  
9           or not the -- this was the concern about  
10          whether or not the reviewers had real knowledge  
11          of the site.

12          **MR. GRIFFON:** Of the site, right.

13          **MS. MUNN:** Yeah.

14          **MR. GRIFFON:** Not necessarily their educational  
15          background or things like that.

16          **MS. MUNN:** That wasn't my interpretation.  
17          Kathy?

18          **MS. ROBERTSON-DEMERS:** And knowled-- and  
19          knowledge of the claimant file and --

20          **MR. GRIFFON:** Knowledge of the claimant's file  
21          and the site, right.

22          **MS. MUNN:** Which we've already talked about.

23          **MR. GRIFFON:** Right. Okay.

24          **MR. HINNEFELD:** Also I want to point out part  
25          of our response to the previous one, to finding

1           number four, about eight lines from the bottom,  
2           the sentence that starts with "The HP review" -  
3           - starts in the middle of the line.

4           **MS. MUNN:** Uh-huh.

5           **MR. HINNEFELD:** The HP rev-- the HP review of  
6           the -- of the CATI is not the review that  
7           they're being talked -- that's being talked  
8           about here. This is a review of the -- of the  
9           CATI form to make sure essentially the boxes  
10          are checked and it's completely filled out.  
11          The HP review occurs at the dose reconstruction  
12          part, at -- you've got a -- you know, so  
13          they're -- I don't know that you would say  
14          there's an HP who looks at a -- strictly at a  
15          CATI interview.

16          **MS. ROBERTSON-DEMERS:** Well, I think we had  
17          some concern about the review by the health  
18          physicist and what it contained, and you --

19          **MR. HINNEFELD:** This procedure doesn't guide  
20          that. This procedure doesn't --

21          **MS. ROBERTSON-DEMERS:** Actually you have an  
22          appendix in -- in 90 --

23          **MR. HINNEFELD:** Okay, and that --

24          **MS. ROBERTSON-DEMERS:** -- that starts to  
25          address that issue.

1           **MR. HINNEFELD:** Okay. So then are the actions  
2 then to deal with that appendix to 90 and --  
3 and what's done there?

4           **MS. ROBERTSON-DEMERS:** Well, I think it would  
5 fall into the review of -- our review of  
6 Procedure 90 and --

7           **MR. HINNEFELD:** Okay.

8           **MR. GRIFFON:** Okay.

9           **MS. ROBERTSON-DEMERS:** -- and your further  
10 evaluation where you've said we need to  
11 consider this.

12          **MR. HINNEFELD:** Uh-huh.

13          **MR. GRIFFON:** Hey, Stu, that line you referred  
14 to, could I offer a little editing, just to --  
15 to clarify it for me?

16          **MR. HINNEFELD:** Yeah.

17          **MR. GRIFFON:** I -- I -- I would suggest maybe  
18 rephrasing that to say the HP review required  
19 by the contract is performed on the initial  
20 telephone interview by the dose reconstructor  
21 during the completion of the dose  
22 reconstruction. I -- I mean he's not really  
23 reviewing the telephone interview. It's during  
24 the entire reconstruction process. Right?  
25 Maybe that doesn't help clarify.

1           **MR. HINNEFELD:** Yeah, he prep-- yeah, he  
2 performs that while he's -- at the -- during --  
3 you were right, during the completion of the  
4 dose reconstruction.

5           **MS. MUNN:** During the completion of the --  
6 yeah. I don't see anything else on here that  
7 we haven't already covered.

8           **MR. GRIFFON:** I don't understand -- the only  
9 other thing I high-- I highlighted things as I  
10 went through the screen, and Proc. 17 finding  
11 seven, I don't understand what S-- and maybe I  
12 -- I need to look back at the full report, but  
13 review requirement is sound but incomplete.  
14 Sound but incomplete is a little bit vague, to  
15 me.

16           **MS. ROBERTSON-DEMERS:** Well, there's really two  
17 reviews that go on. One is basically an  
18 editorial review by the CATI interviewer, and I  
19 -- I think we're happy with that. And then  
20 there's a more detailed review by the health  
21 physicist that gets into some of the content,  
22 and that wasn't addressed in the earlier  
23 procedures, but it started to address it in 90  
24 in that appendix.

25           **MR. GRIFFON:** And you feel the review by the

1 HP, that portion is incomplete or...

2 **MS. ROBERTSON-DEMERS:** Well, looking at the --  
3 the original review of 17, it was incomplete.

4 **MR. HINNEFELD:** So this will then be after the  
5 review of Proc. 90 you would maybe change or  
6 have another opinion --

7 **MS. ROBERTSON-DEMERS:** Right.

8 **MR. HINNEFELD:** -- or have the same opinion,  
9 but...

10 **MS. ROBERTSON-DEMERS:** Right.

11 **MS. MUNN:** I only have one outstanding  
12 question, and Mark, you may already --

13 **MR. GRIFFON:** Well, where do we stand with that  
14 one before you go, Wan-- I'm sorry --

15 **MS. MUNN:** Okay.

16 **MR. GRIFFON:** -- where -- how --

17 **MR. HINNEFELD:** I think it's an after Proc. 90  
18 review issue.

19 **MR. GRIFFON:** It's going to fall under Proc.  
20 90? Okay. Is that agreed? All right. Go  
21 ahead, Wanda. I'm sorry.

22 **MS. MUNN:** Oh, that's quite all right. It was  
23 not clear to me, have we defined who is  
24 tracking what this workgroup considers the  
25 outstanding issues? Lew's nodding his head.

1           **DR. WADE:** I think we've decided, but let's  
2           hear Mark's answers and see if that's my  
3           answer.

4           **MR. GRIFFON:** Yeah, I'm trying -- I'm trying to  
5           track the -- the outstanding issues, is that  
6           what you're saying? Yeah, I've been keeping  
7           track of them throughout the phone --

8           **MS. MUNN:** You're the official stuckee.

9           **MR. GRIFFON:** Yeah, I'll -- I'll fill in a  
10          column and then e-mail it to everyone and we  
11          can get a consensus on that.

12          **MS. MUNN:** Okay.

13          **MR. GRIFFON:** You know, like we've done before,  
14          yeah.

15          **MS. MUNN:** Right.

16          **DR. WADE:** Now we still have the internal dose  
17          in front of us, and then we have the two sets  
18          of individual DR reviews. This might be an  
19          appropriate time to break.

20          **MS. MUNN:** Yes, it would be an appropriate  
21          time.

22          **DR. WADE:** We have a lot to do, so --

23          **MS. MUNN:** I know.

24          **DR. WADE:** -- but when do we want to be back?  
25          We want to be back at quarter of 1:00? Is that

1 not enough time, or --

2 **MS. MUNN:** We can try.

3 **DR. WADE:** Let's try. We won't make it, but  
4 then we'll start at 1:00 -- but no, quarter of  
5 1:00.

6 **MR. GRIFFON:** Quarter of 1:00, okay.

7 **MR. PRESLEY:** Okay. This is Bob Presley. I'll  
8 be back on then.

9 **DR. WADE:** We'll break the call now and we'll  
10 join -- we'll be -- we'll join back at a  
11 quarter of 1:00.

12 **MR. GRIFFON:** Okay, thanks.

13 **MR. PRESLEY:** All right. Bye-bye.

14 (Whereupon, a recess was taken from 11:55 a.m.  
15 to 1:00 p.m.)

16 **DR. WADE:** Maybe we can have the people on the  
17 telephone identify themselves.

18 **MR. PRESLEY:** Bob Presley.

19 **MR. GIBSON:** Mike Gibson.

20 **DR. MAURO:** John Mauro.

21 **DR. LIPSZTEIN:** Joyce Lipsztein.

22 **MS. HOWELL:** Emily Howell.

23 **MR. KOTSCH:** Jeff Kotsch with Labor.

24 **DR. WADE:** Well, that's quite a collection.

25 **MS. MUNN:** That's good.

1           **DR. WADE:** And we are slowly assembling around  
2 the table, but I think we have a sufficient  
3 body of intellect that we can begin.

4           **DR. BEHLING:** Critical mass.

5           **DR. WADE:** (Unintelligible) say that, but --

6           **MS. MUNN:** This is -- this is a hopeful man.

7           **MR. GRIFFON:** Hey, I -- I'm actually hopeful,  
8 too. I think -- I'm looking in my notes for  
9 the internal dose section, and I believe we can  
10 skip to page -- maybe I'm wrong, but skip to  
11 page 16, that's the first page I saw any note  
12 for more discussion needed.

13           **MS. MUNN:** On the first set of -- on --

14           **MR. GRIFFON:** Oh, I take that back -- oh, no,  
15 no, no, I -- okay, the first note I have is on  
16 OCAS IG-002, finding number six. That's on  
17 page 13, but that refers to TIB-8.

18           **MS. MUNN:** We're going back to procedures  
19 (unintelligible).

20           **DR. WADE:** We're on internal dose procedures is  
21 where we are.

22           **MS. MUNN:** Right.

23           **MR. GRIFFON:** I'm sorry, yeah, internal dose  
24 procedures.

25           **MS. MUNN:** Page 16.

1           **MR. GRIFFON:** And -- and I -- all my notes from  
2           the last meeting indicate up through page 16 we  
3           had pretty much concurrence. It was a lot of  
4           the edit-- editorial stuff on the  
5           implementation guide and either it would be  
6           edited or that there was no revision necessary.  
7           And I'll make those edits and put them in the  
8           Board action column and then we can, you know,  
9           send them around to make sure everybody is in  
10          agreement with that. But I don't think there  
11          was any further discussion needed on those.  
12          I think the real discussion item was -- the  
13          first one was on page 16, TIB-8 -- TIB-8,  
14          finding number one, and I have a note that says  
15          we -- you know, SC&A preferred if Joyce was on  
16          the call for this and -- and Joyce is on the  
17          call today, so I think we should start there,  
18          if it's okay.

19          **DR. BEHLING:** Joyce -- Joyce, before you start  
20          -- this is Hans --

21          **DR. LIPSZTEIN:** Yeah.

22          **DR. BEHLING:** -- I'm speaking in behalf of our  
23          court reporter. Right now you're coming  
24          through loud and clear and -- and he has asked  
25          me to ask you to either use a hand-held

1 telephone and speak directly into it because  
2 he's obviously concerned about making sure he  
3 captures everything that you're about to tell  
4 us so -- so that he does not have to ask for a  
5 repeat. If you could, speak loud so that he  
6 has every chance to capture everything he needs  
7 to.

8 **DR. LIPSZTEIN:** Okay, I'll try to.

9 **DR. BEHLING:** You're -- you're sounding very  
10 good.

11 **DR. LIPSZTEIN:** Okay, good. Okay. This is a  
12 voice over ID phone, so I hope everything is  
13 okay.

14 **MR. GRIFFON:** All right, so TIB -- TIB-8,  
15 finding number one, Joyce, is where we're at,  
16 and maybe -- maybe we can do this similar  
17 approach that we've done so far, which is Stu,  
18 you can maybe give an overview on your  
19 response.

20 **DR. LIPSZTEIN:** Are you talking about TIB  
21 number eight?

22 **MR. GRIFFON:** Yeah, TIB-008-01. It's on page  
23 16 --

24 **DR. LIPSZTEIN:** Okay.

25 **MR. GRIFFON:** -- in my printout.

1           **DR. LIPSZTEIN:** Okay, this is a long discussion  
2 about the mouth, the -- where -- where to put  
3 the mouth, and I think this is going to be  
4 clarified now because ICRP has published a new  
5 GI tract model and it puts a lot of  
6 clarification on it.

7           **DR. NETON:** Is that in draft form, Joyce, or --  
8 is -- is the ICRP...

9           **MR. GRIFFON:** Is that a draft, Joyce, or is  
10 that...

11          **DR. LIPSZTEIN:** I'm sorry?

12          **MR. GRIFFON:** Is that a draft?

13          **DR. LIPSZTEIN:** No, this is -- this was just  
14 published now, and I think a lot of the  
15 discussions was that NIOSH did not accept the  
16 fact that where to -- to put the mouth and  
17 which kind of compartment should it be in, and  
18 -- well, we -- we at SC&A were following  
19 exactly what the ICRP was doing. But since now  
20 we have a new GI tract, maybe it's better if we  
21 -- if we could ask people from NIOSH to read  
22 the new GI tract model and then we'll discuss  
23 again where -- where the mouth would be in.

24          **MR. GRIFFON:** What is the publication number on  
25 that? Where -- where is it published?

1           **DR. LIPSZTEIN:** It's -- it's published by the  
2           ICRP.

3           **DR. NETON:** Do you have a number?

4           **MR. GRIFFON:** A document number --

5           **DR. LIPSZTEIN:** (Unintelligible) the number of  
6           it, yeah. I -- if you want to wait. You want  
7           to wait, I'll check it.

8           **MR. GRIFFON:** Sure, or you can -- yeah.

9           **DR. LIPSZTEIN:** You want to wait, I'll just go  
10          into the ICRP -- or I can send you the number  
11          of it 'cause it was (unintelligible).

12          **MR. ALLEN:** I've seen the draft of that.

13          **DR. LIPSZTEIN:** So we'll -- we are discussing  
14          something that was changed, so I think it's  
15          better to discuss it in -- okay.

16          **MR. ALLEN:** Joyce, this is Dave Allen. Are you  
17          saying that publication clarifies via the mouth  
18          part of the respiratory tract?

19          **DR. LIPSZTEIN:** Yes, it does. It does, it  
20          does. It does.

21          **MR. ALLEN:** Is it like an annex to that  
22          publication or...

23          **DR. LIPSZTEIN:** No, it's the new GI tract  
24          model, because they had a problem with the new  
25          human GI -- animal -- they call it the head,

1 the human alimentary tract, it's the new GI  
2 tract, and they had a problem exactly with the  
3 mouth because the mouth was part of the -- of -  
4 - of the lung model, and now it's part of the  
5 human alimentary tract. So most of the things  
6 that we are discussing here, they were  
7 discussed by the ICRP, so maybe it would be  
8 better to -- you know, for the people from  
9 NIOSH to look at the new ICRP on the human  
10 alimentary tract and then we'll discuss it  
11 again to see if we accept what the new ICRP is  
12 saying about it, how much of it -- it's already  
13 on the -- the NIOSH procedures and -- and  
14 what's different. I think it's...

15 **MR. ALLEN:** Yeah, that seems reasonable to me  
16 to get -- I can't really talk to it today.  
17 I've seen the draft of that, but I haven't  
18 pored over it in detail. You say it is  
19 published now, though?

20 **DR. LIPSZTEIN:** Yes, it's published now. I can  
21 try to send you the -- by e-mail for whoever  
22 wants the --

23 **MR. ALLEN:** Yeah, it'd probably be the quickest  
24 --

25 **MR. GRIFFON:** Yeah --

1           **DR. LIPSZTEIN:** -- new -- uh-huh, because I  
2 think it's better if we discuss when we see it.

3           **DR. NETON:** Okay.

4           **MR. ALLEN:** Okay.

5           **DR. LIPSZTEIN:** So I suggest that we postpone  
6 this discussion to -- to see if NIOSH agrees  
7 with the new ICRP model --

8           **DR. NETON:** I'm not sure we're going to disa--

9           **DR. LIPSZTEIN:** -- (unintelligible) the mouth  
10 is and -- and other things.

11          **DR. NETON:** I'm sure we'll agree with it,  
12 Joyce. How we apply it might be a different  
13 issue.

14          **MR. GRIFFON:** That's the question, yeah.

15          **DR. LIPSZTEIN:** No, because it's different from  
16 what it was, so --

17          **DR. NETON:** Okay, good, we'll look.

18          **DR. LIPSZTEIN:** I think it's more on what NIOSH  
19 was doing than before.

20          **DR. NETON:** Okay.

21          **MS. MUNN:** So who is Joyce going to send that  
22 information to?

23          **DR. LIPSZTEIN:** I'm sorry? I'm sorry?

24          **MS. MUNN:** I was asking who you were going to  
25 send the information to.

1           **DR. LIPSZTEIN:** Who do you want me to send -- I  
2           can send it to Jim, I can send it to --

3           **DR. NETON:** Yeah, just send it to me, Joyce,  
4           I'll -- I'll pass it on.

5           **DR. WADE:** And then send a copy to Mark, as  
6           well.

7           **DR. LIPSZTEIN:** Okay.

8           **MR. GRIFFON:** Right.

9           **DR. LIPSZTEIN:** Okay, I will do it. I'll do  
10          it. I'll do it today. Okay?

11          **DR. NETON:** Okay.

12          **MS. MUNN:** Thank you.

13          **DR. LIPSZTEIN:** When we finish.

14          **MR. GRIFFON:** So this one's on hold -- on hold  
15          pending a review of that model.

16          **DR. LIPSZTEIN:** Yeah.

17          **MR. GRIFFON:** Okay. And I guess along with  
18          that would be some sort of not only review on  
19          the model, but an assessment of the impact of  
20          any changes --

21          **DR. LIPSZTEIN:** Yeah.

22          **MR. GRIFFON:** -- in that approach versus the  
23          old approach.

24          **DR. NETON:** Yeah.

25          **DR. LIPSZTEIN:** Yeah.

1           **MR. GRIFFON:** Yeah. Okay.

2           **DR. LIPSZTEIN:** So I suggest we skip TIB-8 and  
3 I'll send to Jim the new GI tract model, and  
4 then he'll distribute (unintelligible) fastest  
5 way?

6           **DR. NETON:** Yes.

7           **DR. LIPSZTEIN:** And then we'll come with that  
8 discussion again.

9           **MR. ELLIOTT:** Well, I don't want to throw a  
10 monkey wrench into the works here, but are we  
11 getting the cart before the horse? Our rules  
12 say that we will utilize international  
13 consensus -- you know, we'll examine it, we'll  
14 consider it and we'll utilize it as we -- as we  
15 think best fits the circumstances.

16           **DR. LIPSZTEIN:** I'm sorry, I didn't hear.

17           **MR. ELLIOTT:** Joyce, this is Larry Elliott.  
18 I'm worried that we're getting the cart before  
19 the horse a little bit here. Normally we would  
20 pick up any international consensus standard  
21 that's just been released and look at it and  
22 then make an evaluation ourselves and then make  
23 a determination on how that will be applied, if  
24 so. We have some regulatory process we have to  
25 adhere to in that, and we would put out a

1 program evaluation review that would examine,  
2 you know, whether or not -- if we so chose to  
3 implement it, we'd put out a program evaluation  
4 review on completed cases and how that -- that  
5 might affect those and what actions we would  
6 need to take.

7 I don't want to get -- I don't want it to be  
8 lost that this comment says -- I think it says  
9 -- that there's some un-- there's -- guidance  
10 on the use of certain organs as surrogates is  
11 not clear.

12 **MR. HINNEFELD:** No, that's a different finding,  
13 isn't it?

14 **MR. ELLIOTT:** This is OL-8-01, I thought that's  
15 what you were talking about. And if we ha-- if  
16 this is a valid comment --

17 **MR. HINNEFELD:** Oh, you're right, you're right.  
18 Sorry.

19 **MR. ELLIOTT:** -- you know, I think it's well  
20 and good that we know about ICRP committee  
21 releasing a new standard; as an international  
22 standard, we'd pick that up and look at it.  
23 But are we getting the cart before the horse,  
24 Jim, or --

25 **DR. NETON:** No, I think, Larry, what Joyce is

1           saying is that -- that the lung model itself is  
2           not as clear-cut as it need-- it should be,  
3           possibly, on the dose reconstruction for the  
4           mouth when you have an inhalation exposure.  
5           And Joyce is suggesting that they have  
6           clarified what role the mouth plays in  
7           inhalation versus ingestion in this new  
8           document --

9           **MR. ELLIOTT:** Okay.

10          **DR. NETON:** -- and my sense is -- I'm hopeful,  
11          it sounds like she may be saying that it's sort  
12          of validating what we may have been doing.

13          **MR. ELLIOTT:** All right.

14          **DR. NETON:** And if that's true, that's --  
15          that's great.

16          **MR. ELLIOTT:** I see. I see.

17          **DR. NETON:** Then we can -- we're not going to  
18          adopt the new GI tract model right this second,  
19          but --

20          **MR. ELLIOTT:** Certainly if there's a simple  
21          solution to this comment and that's relevant to  
22          that solution, we want to --

23          **DR. NETON:** Right, and I think that's where  
24          we're heading. We just --

25          **MR. ELLIOTT:** I understand that.

1           **DR. NETON:** -- maybe use this to help -- help  
2           flesh out the issue in some more detail.

3           **MR. GRIFFON:** But to go back to what Larry  
4           said, actually -- I'm sorry, go --

5           **DR. LIPSZTEIN:** Yes, because what happens if  
6           the ICRP went into most of the same discussions  
7           that we are having here about the mouth, and  
8           they had some new conclusions and they -- they  
9           -- they have done it a little bit different  
10          from what it was before, so it's better to look  
11          at it before we -- we try to discuss it  
12          ourselves again.

13          **MR. ELLIOTT:** Understood. I thank you.

14          **MR. GRIFFON:** Can I go back to -- to --  
15          although Larry did point out in the finding it  
16          says guidance on the use of certain organs as  
17          surrogates, and this mouth question is given as  
18          an example. Are there other -- are there  
19          overall concerns in that guidance or is it  
20          specifically just -- is it just that one  
21          instance or is it -- other concerns in there?

22          **MR. ALLEN:** I think it was just various tissues  
23          in the mouth, if I'm not mistaken on that. It  
24          -- it's all the same issue, but there's more --

25          **DR. NETON:** Yeah, you've got the whole cavity,

1           you've got the tongue, you've got a number of  
2           (unintelligible) --

3           **DR. BEHLING:** Salivary (unintelligible) --

4           **MR. GRIFFON:** Okay, that was it, I was trying  
5           to remember what was --

6           **DR. LIPSZTEIN:** Yeah, it's all -- it's all in  
7           the same -- the same region.

8           **MR. GRIFFON:** Okay. Okay.

9           **MR. ELLIOTT:** So this parenthetical --

10          **DR. MAURO:** John Mauro. To get back to Larry's  
11          --

12          **MR. ELLIOTT:** -- is specific to the concern.  
13          It --

14          **DR. MAURO:** -- question, though, so do we --are  
15          we --

16          **MR. ELLIOTT:** -- is an answer.

17          **DR. MAURO:** -- in agreement that the guidance  
18          that is currently provided in OTIB-8 is  
19          somewhat ambiguous and -- I mean -- or do you  
20          folks feel that -- that the guidance that you  
21          currently are using is not a -- in other words,  
22          I'd like -- I think -- I think Larry hit the  
23          nail on the head. Does NIOSH agree that there  
24          is ambig-- are ambiguities in TIB-8 and -- and  
25          for -- and the solu-- the action that's going

1 to be taken is to look into clearing those  
2 ambigui-- ambiguities up in light of the new  
3 ICRP?

4 **MR. ALLEN:** Well, I'm not sure the -- this is  
5 Dave Allen. I'm not sure -- you know, Joyce,  
6 you can speak for -- but I'm not sure the  
7 comment really was that the guidance is  
8 ambiguous, more that the basis for the guidance  
9 was --

10 **DR. NETON:** Right.

11 **MR. ALLEN:** -- ambiguous.

12 **MR. GRIFFON:** Right.

13 **MR. ALLEN:** Is that true, Joyce, or --

14 **DR. LIPSZTEIN:** Yes.

15 **MR. ALLEN:** Okay.

16 **DR. LIPSZTEIN:** Yeah, what I was telling is  
17 that the -- the -- the TIB.008 was not in  
18 accordance with the ICRP, but now the ICRP has  
19 issued a new document where it discusses  
20 specifically those organs that were not in  
21 agreement, so I think it's better to look at it  
22 first and then discuss it again.

23 **MR. GRIFFON:** It might -- it might help us --

24 **DR. LIPSZTEIN:** Because obviously --

25 **MR. GRIFFON:** -- resolve it.

1           **DR. LIPSZTEIN:** -- obviously NIOSH -- obviously  
2 NIOSH were not the -- gave an -- a lot of  
3 examples why they did not feel the ICRP was  
4 right. That's why they did not allow the --  
5 what the ICRP indicated to do. And what I'm  
6 saying is that the ICRP went into discussion on  
7 those same organs and they made a -- they  
8 issued a new document, so we should look at  
9 this new document and then come back to the  
10 discussion again.

11           **DR. NETON:** Yeah, I think that's fair.

12           **MR. ELLIOTT:** I think everybody here --

13           **DR. LIPSZTEIN:** In other words, some of the  
14 things that we both hear are old. Some of the  
15 things that NIOSH justified are old also in  
16 view of the new ICRP, so this was done a long  
17 time ago. And we have new things from the  
18 ICRP, so probably we should discuss it again,  
19 the arguments of the ICRP again, the arguments  
20 of NIOSH again, in view of the new things. I  
21 would feel it -- better.

22           **MR. ELLIOTT:** We agree and we accept that.

23           **DR. LIPSZTEIN:** If NIOSH still doesn't agree  
24 with the ICRP, okay, so we'll say okay, we'll  
25 discuss it again, but if NIOSH now will agree

1 with the ICRP way...

2 **DR. WADE:** Okay, let's move on.

3 **MR. GRIFFON:** Okay. The next -- the next one  
4 that I have past TIB-8 -- TIB-8, the next item  
5 I have that has more discussion written on it  
6 was page 18, it's ORAU-OTIB number two, finding  
7 number one, it's at the very bottom of the  
8 page.

9 **MS. MUNN:** Uh-huh.

10 **MR. GRIFFON:** The guidance not written in a  
11 clear and logical manner, the ten -- ten and 20  
12 times the ten percent of the maximum personal  
13 (sic) body burden --

14 **DR. LIPSZTEIN:** Oh, okay.

15 **MR. GRIFFON:** Someone can speak to that, either  
16 -- Stu, if you -- or Jim Neton, I'm not sure  
17 who was presenting this, but...

18 **MR. HINNEFELD:** Well, our -- our initial take  
19 on reading the comment here is that the -- the  
20 descrip-- the logical thinking isn't very clear  
21 is we're kind of in agreement with that. It's  
22 not written terribly clearly, and so you know,  
23 we can make editorial revisions to the  
24 procedure to more -- to maybe give a more clear  
25 explanation of why we chose those numbers. But

1           one thing that -- you know, to keep in mind  
2           during discussions of TIB-2 is that, you know,  
3           this is the hypothetical intake model and it's  
4           really a basis for determining an implausibly  
5           large intake for -- for this hypothetical  
6           exposure situation. So you know, before we  
7           get, you know, too far down the road -- you  
8           know, naturally we always want to be clear, we  
9           want to write clearly, but you know, bear in  
10          mind that this is for -- it was -- this  
11          approach is put together for that purpose, it's  
12          to come up with a hyp-- an implausibly large  
13          intake that can be used on these hypothetical  
14          cases -- hypothetical intake cases.

15         **MR. ELLIOTT:** Implausible overestimate or --  
16         you said an implausible --

17         **MS. MUNN:** Yeah.

18         **MR. ELLIOTT:** We're not talking about driving  
19         something to implausibility. Right?

20         **DR. NETON:** Yeah, you need to be careful when  
21         you say implausible. I think it's a -- it's a  
22         bounding overestimate, I think is what I'd --

23         **MR. HINNEFELD:** Right --

24         **DR. NETON:** -- prefer to characterize that.

25         **MR. HINNEFELD:** -- bounding overestimate.

1           **DR. NETON:** So it's a bounding overestimate for  
2           the -- for the particular group of claimants to  
3           which this was applied. You have to keep that  
4           in mind, as well. This is not to be applied --

5           **DR. LIPSZTEIN:** Could you speak a little bit  
6           louder?

7           **DR. NETON:** Sure. We viewed it as a bounding  
8           overestimate, and we apply it to a very  
9           specific group of claimants. And I think that  
10          is those claimants who have what we would call  
11          these non-metabolic cancers so that it's a very  
12          large intake and it allows us to demonstrate  
13          that even under those bounding overestimating  
14          conditions that the case is not compensable.  
15          So I think the trick is not that it is  
16          completely grounded in -- in exhaustive review  
17          of the site exposure conditions, but is it  
18          indeed a bounding for the -- for the person to  
19          whom this is being applied.

20          **MR. GRIFFON:** So Jim, you would -- you would  
21          change the last phrase in that response?  
22          'Cause it says larger than credibly could have  
23          been received. That suggests that plausibility  
24          sort of phrase.

25          **DR. NETON:** Yeah, I --

1           **MR. GRIFFON:** Would you -- would you have  
2           changed that to -- to developed as a bounding  
3           overestimate approach --

4           **DR. NETON:** I would prefer that language,  
5           myself. I mean we have to be sensitive to  
6           these implausible conditions now. I mean we're  
7           --

8           **MR. GRIFFON:** I'm asking you, though. I mean  
9           this is your --

10          **MR. ELLIOTT:** Can't they be the same?

11          **MR. GRIFFON:** -- response, so I'm asking you.

12          **MR. ELLIOTT:** Are those the -- aren't the --  
13          can't those be the same thing?

14          **DR. NETON:** What's that?

15          **MR. ELLIOTT:** The larger than credibly --  
16          larger than credible?

17          **MS. MUNN:** Larger than credibly could have been  
18          received.

19          **MR. ELLIOTT:** Credibly could have been  
20          received, and still be a bounding dose?

21          **DR. NETON:** Yeah, I'd --

22          **MS. MUNN:** That sounds like a bounding dose to  
23          me.

24          **DR. NETON:** Yeah.

25          **MR. GRIFFON:** I think so, okay --

1           **DR. NETON:** I think we have to be careful. I  
2 don't know that implausible is the right word.  
3 That was one thing that I was --

4           **MS. MUNN:** Well, we don't have implausible.

5           **DR. NETON:** Credibly bounding --

6           **MS. MUNN:** We used credibly, that --

7           **DR. NETON:** -- yeah, that --

8           **MS. MUNN:** -- makes sense to me, it --

9           **MR. GRIFFON:** Yeah, okay.

10          **MS. MUNN:** Because those doses are -- let's be  
11 truthful about it, those doses are not  
12 credible, they're just stretching the limits,  
13 and we're back to that same old thing that I  
14 keep leaning on about misleading people about  
15 what their doses might have been.

16          **DR. LIPSZTEIN:** What I think about it is that  
17 the way it was done was all based on ICRP-30  
18 and so sometimes you take some nuclides and  
19 it's not only uranium, and this factor that --  
20 used by NIOSH is not always claimant-favorable.

21          **DR. NETON:** I don't think it was based on ICRP-  
22 30 -- or 2, for that matter. It was based on  
23 an amount of intake. It happened to be this  
24 ten percent of the maximum permissible body  
25 burden, which is old ICRP-2 nomenclature, but

1           the reality is that we believe that that -- the  
2           value that happened to correspond to ten  
3           percent MPBB is a bounding estimate. We're not  
4           -- and then we would do the dosimetry based on  
5           the 66 and all the other models, so --

6           **DR. LIPSZTEIN:** No, now if you -- the ten  
7           percent maximum permissible dose -- okay,  
8           you've got ten percent of the maximum  
9           permissible dose --

10          **DR. NETON:** Body burden.

11          **DR. LIPSZTEIN:** -- then you take ten to 20  
12          times the ten percent, and this ten to 20 times  
13          is the one -- the thing that I'm questioning.

14          **DR. NETON:** That there is no rationale -- well-  
15          documented rationale for that, is that what  
16          you're questioning?

17          **DR. LIPSZTEIN:** Exactly. You -- you -- you  
18          justify it in terms -- using the ICRP-30 model,  
19          and when they -- you -- you go to -- to the new  
20          models you cannot justify it anymore.

21          **DR. NETON:** I don't --

22          **DR. LIPSZTEIN:** (Unintelligible) -- you know,  
23          of course the ten percent is something  
24          arbitrary that you are justifying as that they  
25          couldn't possible get it. Let's say we accept

1           it, but the problem is the ten to 20 times the  
2           ten percent.

3           **DR. NETON:** Okay. Now I think -- I'll start  
4           off with Stu's response then.

5           **DR. LIPSZTEIN:** And if they -- your answer is  
6           that for uranium we recognize that, so you use  
7           the factor as (unintelligible). What I'm  
8           thinking is that there are other radionuclides  
9           that have the same problem as uranium.

10          **MR. HINNEFELD:** Well, I think we can clarify  
11          the reasoning behind it. I think there's --  
12          there's sufficient -- there's other information  
13          in TIB-2 that kind of explains what -- why we  
14          think it's bounding in terms of what kind of a  
15          chronic exposure would this translate into, so  
16          -- but certainly TIB-2 can be clarified  
17          editorially to -- to make that -- that link  
18          better, there's no doubt about that.

19          **DR. NETON:** Yeah.

20          **DR. BEHLING:** Let me make a --

21          **DR. LIPSZTEIN:** (Unintelligible)

22          **DR. BEHLING:** -- a comment -- excuse me, Joyce,  
23          I just wanted the opportunity -- for  
24          interrupting, but I do want to take the  
25          opportunity to make a comment here about if

1           there's modification to TIB-8 -- or TIB-2 is  
2           that I think we need to be very clear when you  
3           should use it. I think the -- under section  
4           one of purpose, it says that when there is  
5           little or no data involving bioassay data for  
6           that individual, as a bounding estimate you  
7           assign these -- this approach. But I think --  
8           and you will see it in the next set of cases  
9           that we have that will be issued as -- draft  
10          form shortly, there's one individual dose  
11          reconstruction where this TIB-2 was employed,  
12          and I have to say the guy was monitored 157  
13          times for urine bioassay for uranium alone, and  
14          somebody was probably just a little too  
15          uncomfortable in pursuing that approach and  
16          saying well, we'll bound it by using TIB-2.  
17          And I'd just like to inform you that there --  
18          there should be some strong language when you  
19          use it and when not to use it.

20          **DR. NETON:** Well, I don't know if this  
21          specifically applies to TIB-2, but we've  
22          adopted the approach that if -- under the  
23          bounding conditions, if that over-arched the --

24          **DR. BEHLING:** Oh, yeah, yeah.

25          **DR. NETON:** -- predicted bioassay results, then

1           it was okay to use that.

2           **DR. BEHLING:** Yeah, but you would -- you should  
3           -- you should at least provide some evidence  
4           that you actually pursued it in that manner --

5           **DR. NETON:** Oh, yeah, it should be documented.

6           **DR. BEHLING:** -- and you could clearly show  
7           quantitatively that this bounds the actual --

8           **DR. NETON:** I agree.

9           **DR. BEHLING:** -- empirical data --

10          **DR. NETON:** I agree.

11          **DR. BEHLING:** -- but that was clearly -- or at  
12          least in my estimation --

13          **MR. ELLIOTT:** It was lacking.

14          **DR. BEHLING:** -- is not done.

15          **DR. NETON:** I think -- I agree, that should  
16          have been our approach.

17          **DR. BEHLING:** I'm sorry to interrupt, Joyce,  
18          but I just wanted to make that comment while we  
19          were talking about TIB-2.

20          **DR. LIPSZTEIN:** Okay.

21          **MR. GRIFFON:** Can I go back to Joyce's  
22          question, just for the -- the clarification of  
23          the -- first of all, the ten percent body  
24          burden and then the ten to 20 times the  
25          factors? What -- what is that or are you going

1 to provide more information on that or...

2 **DR. NETON:** Yeah, I think that was -- the first  
3 -- Stu's original response, which was we can  
4 certainly provide better clarification as to  
5 our logic behind the ten to 20. I'm -- I'm not  
6 prepared to speak.

7 **MR. GRIFFON:** Oh, okay.

8 **DR. LIPSZTEIN:** Jim, let me put it that I don't  
9 think -- I don't know if I made myself very  
10 well understood because some of the things,  
11 they are repeated. First example, what happens  
12 is that when you look at the specification for  
13 the ten and 20 times in the TIB, it says that  
14 it comes because of the current ICRP models and  
15 the difference between an intake and the  
16 activity that is present in the body after the  
17 initial clearance of the short-term  
18 compartments. And then there is a whole table  
19 trying to justify it. But the problem is that  
20 those numbers from those tables, they were made  
21 with certain mistakes. And because of that,  
22 this ten and 20 not always is claimant-  
23 favorable, and so it would be better if instead  
24 of, you know, just taking an arbitrary number  
25 and doing it, the ten and 20, you would use

1           IMBA, for example, and get the exact number you  
2           have to multiply. So sometimes you had to  
3           multiply the number by 60 and you end up  
4           multiplying it by ten or -- I -- I -- because  
5           most of the comments, they all refer to the  
6           same thing. If you -- if you look, for  
7           example, on the technical issue of the same --  
8           finding number eight of this same document on  
9           page 21, for example, you -- it should look  
10          like, for example, for (unintelligible) 95, you  
11          should multiply it by 67 and 144 if it was 90  
12          days, and not 20 as was used in the table, and  
13          so on for other radionuclides because there was  
14          some kind of mistake in deriving those numbers,  
15          then this number ten and 20 is not always  
16          claimant favorable. For cobalt-58, for  
17          example, you should multiply it by 71 and not  
18          20, as it was used, and so on. So what I'm  
19          saying is that there was a technical mistake on  
20          deriving those tables instead of using the  
21          exact numbers that should have been, and that -  
22          - all this should be corrected, and then this  
23          multiplication by ten and 20 is not -- is not  
24          correct -- it's not technically correct and  
25          it's not claimant favorable, also. So I would

1 suggest we use the IMBA that you have and get  
2 the exact number.

3 **MR. ALLEN:** Joyce, this is Dave Allen, and the  
4 one thing I wanted to point out is at the time  
5 when this was originally written, IMBA didn't  
6 include these isotopes. That's why that  
7 Potter's --

8 **DR. LIPSZTEIN:** Oh, okay.

9 **MR. ALLEN:** Yeah, that's why Potter's tables  
10 were used. And you're right, there was a  
11 technical error in that the -- the radioactive  
12 decay was not accounted for when the table was  
13 produced, but --

14 **DR. LIPSZTEIN:** Yeah, and that's why --

15 **MR. ALLEN:** Yes, that's --

16 **DR. LIPSZTEIN:** -- you (unintelligible) those  
17 mistakes, yes, and this has to be corrected  
18 because for some nuclides you give a very big  
19 number.

20 **MR. ALLEN:** Right, but -- but the big --

21 **DR. LIPSZTEIN:** You know, like 67 instead of 20  
22 or (unintelligible).

23 **DR. NETON:** I would point out that where this  
24 is important, the doses are pretty small.

25 **MR. ALLEN:** Right, because --

1           **DR. NETON:** I'm not justifying that there  
2           should be a technical error, but the correction  
3           is going to be very small.

4           **MR. ALLEN:** Yeah, because the --

5           **DR. LIPSZTEIN:** It's not so small, because you  
6           have to multiply -- it's instead of ten you  
7           multiply by 60, that's not -- you know it's six  
8           times more. I -- you know, I --

9           **MR. ALLEN:** It's -- Joyce, this is Dave --

10          **DR. LIPSZTEIN:** I think that now that you have  
11          IMBA and you have all those nuclides, maybe you  
12          should correct it, or maybe use it the right  
13          way from the Potter table.

14          **MR. ALLEN:** We'll -- we'll beef this up and  
15          either -- either completely correct it or make  
16          an attachment to it that justifies the number a  
17          little better. But from what we've seen  
18          preliminarily, it's -- the major difference is  
19          the short-lived elements, and the short-lived  
20          elements, you know, by their nature don't  
21          deliver a dose very long, so the doses are --  
22          tend to be pretty small for the ones that the  
23          biggest errors occur.

24          **DR. NETON:** I mean a factor of six change on  
25          something that delivers five millirem is not a

1 huge dose, although you're absolutely right, it  
2 should be correct (unintelligible).

3 **MR. ALLEN:** And we do intend to beef it up --

4 **DR. NETON:** We'll address it.

5 **MR. ALLEN:** -- yeah.

6 **DR. NETON:** I'd forgotten this comment, Joyce.  
7 This was a long time ago I heard the comment --

8 **MR. GRIFFON:** Yeah.

9 **DR. NETON:** -- and it's coming back to me now,  
10 and you're absolutely correct. This is a  
11 technical issue that needs to be addressed and  
12 we will -- we will deal with it.

13 **DR. WADE:** Good.

14 **MR. GRIFFON:** Okay, so -- so NIOSH is going to  
15 provide some kind of written response on this --  
16 -- right? -- clarifying the -- these factors --

17 **MS. MUNN:** Yep.

18 **MR. GRIFFON:** -- and discrepancies in that  
19 table, I would say, too.

20 **DR. LIPSZTEIN:** Okay.

21 **MR. GRIFFON:** Okay. I'm just going to go  
22 through these items. Some of them may overlap  
23 with that same issue, but OTIB-2 number two.  
24 I'm on the top of page 19 now.

25 **DR. LIPSZTEIN:** Top of page 19?

1           **MR. GRIFFON:** Yeah.

2           **DR. BEHLING:** Some of us have different  
3 pagination, Mark --

4           **MR. GRIFFON:** Oh, it's probably different  
5 paging, yeah. OTIB -- it's -- it's the same  
6 OTIB, number two, finding number two.

7           **MR. HINNEFELD:** Yeah, the best we could  
8 interpret this one was that it was sort of a  
9 compilation or a summary of other comments --  
10 you know, a couple of comments that occur later  
11 on, because we couldn't find the original --  
12 you know, sources that we're missing. There  
13 were comments later on that we thought may be  
14 relevant to this, but as it's stated here, it  
15 says it references data from that need to be  
16 known in order to understand the procedures  
17 described, and we didn't quite get the take on  
18 what we were supposed to provide.

19           **MR. GRIFFON:** Can SC&A clarify this one, the  
20 finding, in some --

21           **DR. BEHLING:** Yeah, it may -- Mark, it may very  
22 well go back to something that we identified in  
23 our protocol for review of procedures, and that  
24 is when you provide a document that is to serve  
25 as a guidance document, try to avoid the need

1 to reference secondary documents that the  
2 individual may have to assess in order to  
3 follow through. For instance, in -- I'll give  
4 you an example in the case of the medical  
5 occupational exposure, TIB-6 for instance would  
6 make reference to NCRP reports regarding a  
7 graph or a table that -- that would only add  
8 dimensions of time that the dose reconstructor  
9 would have to invest in pursuing that  
10 information. And the recommendation was if  
11 there is additional information needed for --  
12 for dose reconstruction, provide it in the  
13 document itself rather than ask somebody to go  
14 and -- and hunt down some other document that  
15 he may or may not even have access to. I think  
16 that was the intent here is to -- if you're  
17 going to have a document that's to serve as  
18 guidance, provide the necessary information so  
19 that there is no need to go to another document  
20 in order to complete the picture for guidance.

21 **MR. HINNEFELD:** Okay, I think we can probably -  
22 - if we're going to revise this for clarity  
23 purposes anyway, we can probably look for those  
24 type of things in here and avoid  
25 (unintelligible) --

1           **MR. GRIFFON:** I would say this is one of those  
2           that -- that NIOSH should modify, but it's not  
3           a high priority item. I think we recognize  
4           some of those -- I mean in the implementation  
5           guidelines -- you know, modi-- you will modify  
6           it, but it's not a high priority issue, I would  
7           think. Right?

8           **MR. HINNEFELD:** Right.

9           **MR. GRIFFON:** All right, I'm on to number  
10          three, if there's nothing else on that one.  
11          This is the guidance not consistent with other  
12          documents that are part of the hierarchy of  
13          procedures; i.e., OTIB-1. And NIOSH -- Stu,  
14          your response said there's no direct  
15          relationship. Right?

16          **MR. HINNEFELD:** Our response is that there --  
17          OTIB-1 and OTIB-2 are two different approaches  
18          for arriving at a hypothetical intake, based on  
19          what's known about where they're used. So we  
20          felt like it's okay to have two different  
21          approaches for hypothetical intakes. OTIB-1 is  
22          just used at Savannah River. OTIB-2 is used at  
23          other DOE sites.

24          **DR. LIPSZTEIN:** What we were thinking is that  
25          if you have one working in one installation and

1 another working in another installation that  
2 people should get the maximum doses the same  
3 way. But we have this with most of the -- of  
4 NIOSH documents. Some -- some cases you -- you  
5 calculate the maximum doses one way, the other  
6 -- another document in another way, so it's  
7 (unintelligible) you have to do.

8 **MR. GRIFFON:** Is it -- is it a question of  
9 consistency or is there an equity issue here  
10 or...

11 **MR. HINNEFELD:** Well, it's a hypothetical  
12 overestimate for a case that's not going to  
13 reach 50 percent, so I don't think it's going  
14 to be an equity issue. It would -- if one is  
15 providing a higher dose than the other  
16 approach, then that just means that there will  
17 be -- you -- there are few cases that can be  
18 done this way with the higher -- you know, the  
19 higher number, so --

20 **MR. GRIFFON:** So that's an important part of  
21 your answer, that the procedures both will  
22 never be used for cases that exceed 50 percent,  
23 or -- or --

24 **DR. BEHLING:** By definition, Mark.

25 **MR. GRIFFON:** Right. Right. That -- that's an

1 important part. I mean...

2 **MS. MUNN:** Can we just add that statement and  
3 have this resolved?

4 **DR. BEHLING:** A curious thing would be to  
5 perhaps do a bunch of organs under the --  
6 common organs, but by using the 12/28  
7 radionuclides versus these Savannah River high  
8 five and see, you know, how different are they.  
9 As has already been mentioned, they're not to  
10 be used for anything other than non-  
11 compensables, so the differences may be all  
12 academic, but it may just be something that we  
13 might want to do just to see how different the  
14 two sets of data would result in common organ  
15 doses.

16 **MR. ALLEN:** Well, I think you'll find that at  
17 Savannah River OTIB-1 is lower than the OTIB-2,  
18 but OTIB-2 was intended to apply complex-wide,  
19 so it had to be much more encompassing, whereas  
20 OTIB-1 was based on an actual -- Savannah River  
21 kept a good list of --

22 **DR. BEHLING:** Yes.

23 **MR. ALLEN:** -- estimated intakes of all their  
24 employees and we took the top ones. That  
25 allowed us to overestimate Savannah River much

1 more plausible --

2 **MS. MUNN:** We had a better implausible number  
3 (unintelligible).

4 **MR. ALLEN:** Basically we -- we had the  
5 information to refine the Savannah River  
6 overestimate as compared to a complex-wide type  
7 overestimate, was the main difference between  
8 the two.

9 **MR. GRIFFON:** So Wanda, you suggested adding  
10 that clarifying statement.

11 **MS. MUNN:** I just would add --

12 **MR. GRIFFON:** What was the clarifying  
13 statement, that these are not used for --

14 **MS. MUNN:** That neither of these will be used  
15 for cases that would exceed 50 percent POC.

16 **DR. BEHLING:** Well, that's clearly written in  
17 the procedure itself.

18 **MS. MUNN:** Yeah, it already says so, but if we  
19 say it here, then that (unintelligible).

20 **DR. BEHLING:** And the inequity issue won't come  
21 up because TIB-2 is used for everything other  
22 than Savannah and TIB-1 is only for Savannah,  
23 so --

24 **MS. MUNN:** Uh-huh.

25 **DR. BEHLING:** -- there's not going to be two

1 people from Savannah, one being assessed by the  
2 12 or 28 and the other one by the high five.

3 **MR. GRIFFON:** That's what I was looking for.  
4 SC&A is concurrent with this then. Right?

5 **DR. BEHLING:** Yes.

6 **MS. MUNN:** Yeah.

7 **MR. GRIFFON:** Okay. All right, moving on,  
8 OTIB-2, finding four.

9 **MS. MUNN:** It said another revision is coming.

10 **MR. GRIFFON:** Okay. And then five, we just  
11 discussed. Right? We're going to get a  
12 response on that.

13 **MR. HINNEFELD:** Yeah, five was what we  
14 discussed a minute ago.

15 **MR. GRIFFON:** Very similar, right. And six, I  
16 think.

17 **MS. MUNN:** Uh-huh.

18 **MR. GRIFFON:** Although this --

19 **DR. NETON:** Yeah, that's the same issue we  
20 talked about --

21 **MR. GRIFFON:** Right.

22 **DR. NETON:** -- the decay factors.

23 **MR. GRIFFON:** Okay. And seven --

24 **DR. BEHLING:** Joyce, do you have a comment?

25 **DR. LIPSZTEIN:** Yeah, on seven, when you --

1           also be -- it's a technical issue again, and  
2           some of the things that were written on the  
3           documents, they are not -- they are not true.  
4           And there's a comment here that the OCAS did  
5           not evaluate this comment because the nuclides  
6           in question were not specified. That's not  
7           true on the basis that were given here, 138 and  
8           139. We gave examples of things that were  
9           technically wrong. For example, the assumption  
10          of type S for cobalt-58 and cobalt-60, it said  
11          it's -- this is used because it results in  
12          larger doses to systemic organs because of the  
13          high energy photons, and then if you look up  
14          you'll see that not for all organs you should  
15          use type S, for certain organs you should use  
16          type M. So there's some small -- I don't know  
17          if you -- I should call it small, but there's  
18          some technical incorrections on -- on the  
19          classes that -- on the types that were --  
20          absorption types that were assumed. And we  
21          gave examples, some -- for -- some -- some  
22          nuclides that were wrong.

23          **DR. BEHLING:** Joyce, we also brought that up  
24          with regard to plutonium and uranium, and I  
25          think you and Mike Thorne may have also

1           commented or written responses to that, but I  
2           personally have also found this out in my own  
3           review of audits of -- of dose reconstruction  
4           cases, and this is particularly true when you  
5           start out with a urine sample that you first  
6           have to use to determine what was the  
7           inhalation quantity, and then again work  
8           forward in saying how does that inhalation  
9           affect -- or how does that correlate to a  
10          specific organ dose. We found that if you --  
11          if you start out with type S as opposed to M,  
12          you end up with higher organ doses if you start  
13          out with urine data to first calculate the  
14          inhalation dose and then use the inhalation  
15          dose to calculate organ dose. And so I think  
16          you're talking about the same thing that I've  
17          also (unintelligible).

18          **DR. NETON:** I think that's true for urine, but  
19          TIB-2 does not --

20          **DR. LIPSZTEIN:** But I --

21          **DR. NETON:** -- start with urine.

22          **DR. LIPSZTEIN:** -- but I think on those  
23          particular example of what's happened is that  
24          you could not use -- if you use the same type  
25          of nuclide (unintelligible) that's in the old

1 ICRP nomenclature, sometimes NIOSH call it  
2 class, but no class was in 30, now it's type,  
3 but it's almost the same thing. What I mean is  
4 that for some nuclides you cannot say you  
5 should use only type S or you should only use  
6 type M 'cause some nuclides -- it depends on  
7 the organ you get the cancer.

8 **MR. GRIFFON:** Okay. And -- and Jim --

9 **DR. LIPSZTEIN:** Because for some organs you get  
10 a more favorable result if you use type S, for  
11 -- for other organs you get a more favorable  
12 result if you use type M. For example, cobalt-  
13 60, it's written on the document that you  
14 should always use type S because it will result  
15 in a larger dose to the systemic organs. And  
16 what I'm saying is that okay, for many organs,  
17 yes. But for the bladder or the brain, for the  
18 uterus and for the colon you should use type M  
19 because it gives a higher dose than type S, so  
20 it's -- there's some technical incorrection.

21 **MR. GRIFFON:** So Joyce, you have -- these are  
22 examples in the report, I agree, I see them.

23 **DR. LIPSZTEIN:** Yeah.

24 **MR. GRIFFON:** Do you have an extensive list or  
25 -- or --

1           **DR. LIPSZTEIN:** We ga-- we -- we did it for all  
2 the nuclides that were given in the -- the  
3 document.

4           **MR. GRIFFON:** And are these --

5           **DR. LIPSZTEIN:** (Unintelligible)

6           **MR. GRIFFON:** -- the ones you found -- these  
7 are the ones that you found problems with and  
8 listed in your report?

9           **DR. LIPSZTEIN:** Yes. Yes, they  
10 (unintelligible).

11          **MR. GRIFFON:** So if NIOSH can -- can maybe  
12 respond to that or look at that and -- and  
13 respond to that, would that be --

14          **DR. LIPSZTEIN:** Yes.

15          **MR. GRIFFON:** -- a fair follow-up?

16          **DR. LIPSZTEIN:** Yes, yes. I -- yes. We -- I  
17 think for all the nuclides NIOSH should review  
18 this and -- and see which nuclides they should  
19 apply which type of -- of nuclide they should  
20 (unintelligible) --

21          **DR. NETON:** Joyce, I'm curious --

22          **DR. LIPSZTEIN:** -- (unintelligible) --

23          **DR. NETON:** -- the calculations you did, were  
24 they for 50-year committed doses?

25          **DR. LIPSZTEIN:** -- (unintelligible).

1           **MR. GRIFFON:** Okay.

2           **DR. BEHLING:** She didn't hear you.

3           **DR. NETON:** Joyce --

4           **DR. LIPSZTEIN:** (Unintelligible) this one type  
5           --

6           **DR. NETON:** -- this is Jim --

7           **DR. LIPSZTEIN:** -- (unintelligible) it's --  
8           it's something that you -- you get  
9           (unintelligible) as a technical thing.

10          **DR. NETON:** Joyce? Hello, Joyce?

11          **DR. LIPSZTEIN:** Yes?

12          **DR. NETON:** Are these 50-year doses that you're  
13          basing these comments on?

14          **DR. LIPSZTEIN:** You could do it for 50 years or  
15          you could do it for less years, too  
16          (unintelligible).

17          **DR. NETON:** Well, I'm saying it makes a  
18          difference. I think you almost have to do it  
19          on a --

20          **DR. LIPSZTEIN:** Yeah, it does. Yes, of course  
21          it does.

22          **DR. NETON:** Yeah, so I don't think you can  
23          generically say that those numbers are valid  
24          always because rarely do we have 50-year doses,  
25          but we certainly need to look at it and --

1           **DR. MAURO:** Jim, this is John --

2           **DR. LIPSZTEIN:** Yeah, it's always the technical  
3 things that have to be examined very carefully  
4 instead of just, you know, pointing out  
5 something for the DR that it's not always  
6 (unintelligible) it will be a -- a --

7           **DR. NETON:** Yeah, I agree.

8           **DR. LIPSZTEIN:** -- claimant favorable --

9           **DR. NETON:** Dave -- Dave, correct me if I'm --

10          **DR. LIPSZTEIN:** -- so it's something you have  
11 to look very carefully.

12          **DR. NETON:** Yeah, I -- I think it's been our  
13 approach -- and Dave Allen can correct me if  
14 I'm wrong here -- but we would normally do it  
15 both ways and pick the higher of the two. This  
16 may be an artifact of an earlier TIB that was  
17 put out there that --

18          (Whereupon, Dr. Lipsztein, Mr. Griffon and Dr.  
19 Neton all spoke simultaneously, rendering  
20 transcription of their individual comments  
21 impossible.)

22          **DR. LIPSZTEIN:** I think the advice should be  
23 (unintelligible) for all types and see which  
24 one gives you the highest dose (unintelligible)  
25 --

1           **DR. NETON:** Well, and more importantly, you  
2           need to bring into account the integration  
3           period because if it's one year, five years,  
4           ten years, 50 years, it could make a  
5           difference.

6           **MR. GRIFFON:** Yeah.

7           **DR. NETON:** See, and I --

8           **DR. LIPSZTEIN:** It could. Yeah, it could.

9           **DR. NETON:** 'Cause if you have class Y and it's  
10          in the first year --

11          **DR. LIPSZTEIN:** (Unintelligible)

12          **DR. NETON:** -- M would be more favorable.

13          **DR. LIPSZTEIN:** -- for some numbers  
14          (unintelligible).

15          **DR. BEHLING:** Well, we're still dealing with --

16          **MR. GRIFFON:** That might be the best action,  
17          Jim, is the --

18          **DR. BEHLING:** -- the efficiency process, though  
19          (unintelligible).

20          **DR. MAURO:** (Unintelligible) that I want to  
21          step back for a second because I think the  
22          NIOSH response is interesting. And the last  
23          sentence in the NIOSH response is -- it says it  
24          is not important how these large intakes were  
25          developed, as long as they are larger than

1           credibly could have been received by the  
2           subject employees. And I want to draw your  
3           attention to that because this goes toward not  
4           only comments on this particular TIB, but also  
5           on the high five approach, on the 28  
6           radionuclides or the 12 radionuclides, and it's  
7           something that I was anxious to engage in. It  
8           is my understanding that it -- this statement  
9           says -- we -- we use this construct whether --  
10          to get us to a certain dose, and a -- and NIOSH  
11          gives -- well, we went with the high five. Now  
12          we know from doing the review that we probably  
13          could find some people that got higher than  
14          your high five. That doesn't invalidate your  
15          doses, it just says that well, your rationale  
16          for picking what you pick, the high five --  
17          well, if we go into the literature or go into  
18          the databases, we could find other people that  
19          were even higher. Same -- same thing Joyce --  
20          now you had pointed out here, correctly so,  
21          that there are some other assumptions that  
22          could be used for certain radionuclides that  
23          could give you -- regarding let's say  
24          solubility, that could give you a higher dose.  
25          And the answer that was given here by NIOSH is

1           -- is going down a different path. It's almost  
2           as if don't let's talk about the rationale,  
3           let's just talk about the dose. We're -- we're  
4           arbitrarily selecting a very high dose for each  
5           of these organs, and we're going to use the  
6           assigned dose as long as we feel confident that  
7           they are in fact bounding for the class of  
8           individuals that would apply this to, or the --  
9           the individual. So I guess we -- we need to  
10          come to some resolution here, whether there --  
11          NIOSH needs to have a rationale for the dose it  
12          picks and -- and -- and then stick to it, such  
13          as picking the solubility that's most claimant  
14          favorable, picking the high five and  
15          demonstrating that those in fact are the  
16          highest five, or is it just -- is it sufficient  
17          for NIOSH simply to pick a dose and -- and the  
18          rationale's really not what's important, and  
19          provide assurance that that dose is in fact  
20          above the credible upper bound.

21          **DR. NETON:** John, this is Jim. I'd go back one  
22          step further, though, and -- and not talk about  
23          picking a dose, but picking an intake.

24          **DR. BEHLING:** Yeah, you have --

25          **DR. NETON:** Because that's really --

1           **DR. MAURO:** Okay, an in-- let's --

2           **DR. NETON:** -- what we're talking about here.

3           **DR. MAURO:** -- go with intake, so I mean I  
4 think we can --

5           **DR. NETON:** Because intake can be grounded in  
6 the plant conditions, to some degree.

7           **DR. MAURO:** Yeah.

8           **DR. NETON:** Just arbitrarily picking a dose  
9 doesn't make any sense to me.

10          **DR. MAURO:** Okay, I stand corrected. But you  
11 see the point I'm making. I'm trying to find a  
12 way that -- it's really an intake in the end  
13 that you're picking.

14          **DR. NETON:** Right, and I would -- I would  
15 suggest that I think what you say is true about  
16 the intake, that we -- we just have to be able  
17 to get people comfortable that it's a bounding  
18 intake for that plant or that exposure  
19 scenario. Now how you get the dose is a  
20 different issue, and I think we would -- I  
21 would feel comfortable in saying we need to be  
22 consistent on how we're applying that intake  
23 and converting it to dose. And yes, we would  
24 use the most claimant favorable scenario that  
25 made -- if it made sense. If we couldn't pick

1           between two, Y or W, we would pick the higher  
2           one. But I think the intake itself is -- is  
3           where we would argue, and I think -- I hope  
4           people would agree that we -- we have the -- we  
5           can pick a bounding intake value for a  
6           particular plant, and that's what we tried to  
7           do with Savannah River and these other TIBs.  
8           **DR. BEHLING:** And I also think, just to add  
9           something to what you started out, John, and I  
10          concur. If we start to decipher this whole  
11          issue and then break it down into different  
12          time periods, as Joyce correctly states -- and  
13          Jim, too -- that it's not necessarily  
14          consistent that one solubility class will  
15          always give you the higher. It may also be  
16          affected by the duration between exposure and -  
17          - and cancer diagnosis. But if we go and  
18          follow that path, we no longer have an  
19          efficiency process. You're going to end up  
20          with an awful lot of computations that will  
21          determine which one is the highest, when in  
22          fact the intent is to save time by saying let's  
23          just go with the high one. It may not always  
24          be technically correct, but we do know it's  
25          bounding, whether it's necessarily the highest

1           one -- and -- and use that as a tool for saying  
2           let's be done with it because this is a non-  
3           compensable claim and we're looking for  
4           efficiency.

5           **DR. LIPSZTEIN:** I -- I don't agree because if  
6           the (unintelligible) were small, I would agree  
7           with you. But when you have a difference of  
8           six or ten times, you know, higher, it makes a  
9           difference.

10          **DR. BEHLING:** Well, Joyce, but just to -- to  
11          tell you, again, if that difference of six to  
12          ten brings a guy over 50, we'd withdraw the  
13          whole efficiency process to begin with and  
14          start looking at best estimates, in which case  
15          we -- we end up with a whole different ball  
16          game in computating (sic) the internal dose, so  
17          --

18          **MR. GRIFFON:** That's -- that's what she's  
19          saying, you're on the low side of a six to ten.  
20          You're on the low side, Hans, so you wouldn't  
21          get -- you know, what -- what about this a --

22          **DR. BEHLING:** Well, that's what I'm saying. If  
23          you do go to a more restrictive dose  
24          calculation that would ultimately bring the  
25          person up to or beyond 50 percent, we withdraw

1 the whole procedure entirely.

2 **MR. GRIFFON:** Let me -- let me ask this, 'cause  
3 I think Jim Neton shed a lot of light on this  
4 with the last statement he made about three  
5 minutes ago. I mean what if -- what if, as an  
6 action, NIOSH evaluates this, but it may be  
7 that you, for certain nu-- nuclides, you put in  
8 there -- the guidance is for the DR dose  
9 reconstructor to run all solubilities and pick  
10 the highest in that case, and for some you may  
11 be so clear that -- that class S is always  
12 going to give you the highest, then you can  
13 just leave it at that. I would almost  
14 recommend, you know, take -- take the -- remove  
15 the table and say just run all -- you know, run  
16 all solubility choices and pick the highest for  
17 the organ of interest. That would clarify the  
18 guidance completely, and I don't think it's  
19 that inefficient when you're just picking one  
20 intake, anyway.

21 **MR. ALLEN:** Well, that's annual doses for 28  
22 nuclides at various solubilities each, that  
23 turns out to be a hell of a lot of --

24 **MR. GRIFFON:** Oh, yeah, okay, okay, so I'll go  
25 back to the -- for those certain nuclides where

1           there's an issue, then you put run -- you know,  
2           asterisk, run -- run two solubilities and --  
3           and check this out in this instance, you know,  
4           or something like that.

5           **MR. ALLEN:** I think maybe an evaluation by us  
6           could probably reach a compromise --

7           **MR. GRIFFON:** Okay.

8           **MR. ALLEN:** -- in what everybody is saying here  
9           'cause I think the six to seven times that  
10          Joyce is talking about might be some of the  
11          smaller dose isotopes --

12          **MR. GRIFFON:** Smaller overall doses.

13          **MR. ALLEN:** -- to where, you know, the total --  
14          and in keeping with what Hans is saying here,  
15          if it's -- if the difference is, you know, in  
16          the ten percent range, it's probably not worth  
17          dealing with in an overestimating TIB like  
18          this.

19          **MR. GRIFFON:** Right.

20          **DR. NETON:** I think -- I think Dave's got a  
21          good -- good solution here.

22          **MR. GRIFFON:** Okay, well, why don't --

23          **DR. LIPSZTEIN:** (Unintelligible) intake --  
24          (unintelligible) intake of ten times -- if a  
25          difference in dose of ten times

1 (unintelligible) proportional to the intake --  
2 don't forget, the difference of ten times --  
3 you will never make a difference on the dose,  
4 then we might as well say what -- what are we  
5 doing, nobody will get anything.

6 **DR. NETON:** Yeah, we don't --

7 **MR. ALLEN:** Joyce, the point -- the --

8 **DR. LIPSZTEIN:** A difference of ten times in  
9 the intakes is a difference of ten times in the  
10 dose.

11 **MR. ALLEN:** The point, Joyce, was that some of  
12 those isotopes were a small fraction. We're --  
13 we're including like say 28 -- all 28 nuclides  
14 for one intake, we're not just picking the  
15 highest isotope.

16 **DR. NETON:** I think we need to go back and look  
17 and see where these may have an effect and --  
18 and behave accordingly. I think that -- I  
19 agree with Joyce that we just can't say we're  
20 just going to -- it doesn't matter which is  
21 higher because we're so generous. I think we  
22 need to evaluate it, at least put some brackets  
23 around what -- what difference it makes. And I  
24 think we'd be hard-pressed to argue that we  
25 shouldn't know what the upper bound doses are

1 with these intakes. I mean that's sort of a  
2 given, so --

3 **MR. GRIFFON:** I think that -- that's as far as  
4 we're going to get on this phone call --

5 **DR. NETON:** We'll take a look at it.

6 **MR. GRIFFON:** -- today anyway -- yeah.

7 **DR. NETON:** It's easy for me to say, I don't  
8 have to do all the work behind it.

9 **MR. GRIFFON:** Okay. So now we're on to -- to  
10 finding eight.

11 **DR. LIPSZTEIN:** It's the same.

12 **MR. GRIFFON:** Oh, it's the same thing, okay.  
13 I'm just moving ahead here, and nine's the  
14 same, also. Right? Seven, eight and nine,  
15 they're all the same issue anyway.

16 **DR. LIPSZTEIN:** Yeah, (unintelligible).

17 **MR. GRIFFON:** Okay. How about ten and 11?

18 **DR. LIPSZTEIN:** (Unintelligible)

19 **MS. MUNN:** We've done them. We did those  
20 first.

21 **MR. GRIFFON:** Okay.

22 **DR. LIPSZTEIN:** Okay, and 11 also, it's agreed?

23 **MS. MUNN:** So now we're down to TIB-5.

24 **MR. GRIFFON:** We have agreement on ten and 11,  
25 right? Okay. I'm making sure I capture these

1 notes so I can revise the matrix to -- okay,  
2 TIB-5, finding one, see response to TIB-8.  
3 Okay, so we've got this one. This is a --  
4 we're going to review the new ICRP model.  
5 Correct?

6 **DR. LIPSZTEIN:** Yeah.

7 **MR. GRIFFON:** And number two, SCA agrees with  
8 NIOSH, I have on this, so I think this one's  
9 not an issue. Now we're going to go down to  
10 ORAU-OTIB-1, finding number one.

11 **DR. LIPSZTEIN:** (Unintelligible)

12 **MR. GRIFFON:** Surrogate radionuclides, is this  
13 -- this is the same issue for TIB-1 or no?

14 **MS. MUNN:** It's going to be clarified in a  
15 subsequent revision. One of those things for  
16 you to track, Mark.

17 **MR. GRIFFON:** Mark.

18 **MS. MUNN:** Action, Griffon.

19 **MR. GRIFFON:** Wait, I have -- I have a more  
20 discussion note on this, though. Could someone  
21 clarify that, OTIB-1?

22 **MR. ALLEN:** This is Dave Allen, I think I can  
23 shed just a little bit light on that one. At  
24 the time OTIB-1 was written, again, the version  
25 of IMBA we had didn't do all isotopes -- well,

1           it'll never do all isotopes -- but there was a  
2           number of important isotopes it did not do and  
3           we tried to account for that by using isotopes  
4           that it did do as a surrogate. At this point I  
5           believe all of the isotopes on there are  
6           included in IMBA, so we -- we can go back and  
7           calculate a more correct version rather than  
8           using a surrogate isotope.

9           **MR. GRIFFON:** So it's really probably no longer  
10          an issue and the revision will clarify it.  
11          Right? The -- the --

12          **MR. ALLEN:** I think we -- what we have to do is  
13          rerun those numbers, and if it's a very small  
14          difference at least write this up and present  
15          it to you, you know, as -- you know, we don't  
16          think a change is warranted, but I suspect one  
17          is going to be warranted and in that case we'll  
18          revise the OTIB.

19          **MR. GRIFFON:** Okay. So evaluate and revise as  
20          necessary?

21          **MR. ALLEN:** Yeah, that's basically it.

22          **MR. GRIFFON:** Okay. Finding two on that same  
23          OTIB?

24          **DR. LIPSZTEIN:** (Unintelligible) I think NIOSH  
25          -- what they are saying is that they will

1           clarify -- it took me a long time to understand  
2           why they did it like that, and then I knew --  
3           I... so but it -- it says that in a subsequent  
4           revision it will -- NIOSH will clarify that  
5           intakes occurred before the adoption of ICRP-30  
6           where (unintelligible) using ICRP-30  
7           methodology.

8           **MR. GRIFFON:** Okay. And I guess --

9           **DR. LIPSZTEIN:** I think -- I understand that  
10          NIOSH agrees with the commentary.

11          **MR. HINNEFELD:** Yeah, we agree to clarify the  
12          write-up here because --

13          **MR. ALLEN:** We agree it's ambiguous.

14          **MR. GRIFFON:** Okay, and this -- is this for the  
15          -- is this the high five procedure?

16          **DR. NETON:** Uh-huh.

17          **MR. HINNEFELD:** Yeah.

18          **MR. ALLEN:** Yes.

19          **DR. LIPSZTEIN:** Yes, this is the Savannah  
20          River, yeah --

21          **MR. GRIFFON:** And --

22          **DR. LIPSZTEIN:** -- document.

23          **MR. GRIFFON:** -- I guess I had a -- I don't  
24          know if it's captured in this same finding, but  
25          a question as to whether -- and this might be

1 in the site profile review more than in here, I  
2 forget, but the question's come up on the --  
3 you know, where the high five came from and  
4 whether NIOSH independently calculated those  
5 intakes from the -- from the accident or  
6 whether they were provided by Savannah River --  
7 how -- how those actual high five intakes were  
8 -- were derived.

9 **DR. LIPSZTEIN:** For me this is a very good  
10 question because I -- I only reviewed some  
11 cases for -- some of the 20 cases, but some of  
12 them were from the Savannah River Site, and I  
13 kind of looked at some of the data and I -- I  
14 could see some intakes that were higher than  
15 the ones cited on the high five. So --

16 **MR. GRIFFON:** Yeah, I looked -- I looked --

17 **DR. LIPSZTEIN:** -- you know, when I -- when I --  
18 - when I reviewed the document I didn't see the  
19 cases, but then I saw the cases -- I don't know  
20 how, you know, should say this in a conference  
21 call or not, but I --

22 **DR. NETON:** I think this is getting into sort  
23 of the issue that -- that John Mauro brought up  
24 a little bit ago in that, you know, are these  
25 reasonable bounding intakes for the workers to

1           which the -- you know, the approach is applied.  
2           In other words, we're not arguing that there  
3           was no higher intake ever in the history of  
4           Savannah River, but based on the average of the  
5           highest high five that were evaluated by the  
6           dosimetry program, we believe that these are  
7           sufficiently bounding for the class of workers  
8           that we're using them for. And that's really  
9           the relevant issue here. It's not, you know,  
10          can we find someone who had a higher intake of  
11          plutonium. I mean I think that -- the intake  
12          is something like 160 nanocuries of plutonium,  
13          something in that ball park. Is it reasonable  
14          to conclude that a -- an administrative  
15          personnel who was not monitored had a higher  
16          intake than that. I mean that's really what  
17          we're trying to get at here. And whether that  
18          was done with ICRP-30 methodology or not is --  
19          is not really -- I'm not saying it's not  
20          relevant, but it's -- it's not as important as  
21          it would seem.

22          **MR. GRIFFON:** Yeah, I guess that -- that is  
23          what -- what is of issue in -- I --

24          **DR. NETON:** Yeah.

25          **MR. GRIFFON:** You know, if the highest five --

1 I mean I think that -- we -- we've -- I think -  
2 - I guess maybe I got caught up in this -- this  
3 quick and easy terminology of the high five,  
4 the highest --

5 **DR. NETON:** Yeah, sure.

6 **MR. GRIFFON:** -- five intakes ever, and maybe  
7 there's a better --

8 **DR. NETON:** There might be a better descriptor,  
9 and --

10 **MR. GRIFFON:** -- a better descriptor that says,  
11 you know --

12 **DR. NETON:** Yeah.

13 **MR. GRIFFON:** And I think you're right, Jim,  
14 the application's important because it's not  
15 intended for application to production workers  
16 or --

17 **DR. NETON:** Right.

18 **MR. GRIFFON:** Right?

19 **DR. NETON:** Right, there -- there are limits on  
20 the application of the high five approach.  
21 Again, it was part of the efficiency process,  
22 and rather than --

23 **MR. GRIFFON:** (Unintelligible) efficiency  
24 model, right.

25 **DR. NETON:** -- rather than picking numbers out

1 of a hat, I mean we -- you know, we -- ORAU  
2 went out and said well, this seems reasonable  
3 that -- you know, they have the very robust  
4 monitoring system and over the years here are  
5 the -- you know, the high intakes that they've  
6 experienced for -- for workers who were in the  
7 production environment. And we're applying  
8 these to non-production workers, so I think  
9 there's some real credibility here that we've  
10 gained from this, but maybe there is a  
11 nomenclature issue or how we described it,  
12 but...

13 **MR. GRIFFON:** I guess what -- what strikes me  
14 now, in retrospect, is that -- that most of the  
15 other sites you're not using this sort of  
16 approach --

17 **DR. NETON:** Right.

18 **MR. GRIFFON:** -- for the unmonitored workers in  
19 establishing, you know, the 95th or 50th  
20 percentile intakes.

21 **DR. NETON:** Well, and that -- that's part and  
22 parcel of this program. As we learn more and  
23 develop coworker databases -- and again, these  
24 are not used to pay people. They are used --  
25 you know, is -- is it on the right side of the

1           50 percent mark is what we're trying to say,  
2           and I -- I suspect that we -- you know, if we  
3           had the coworker data available at the time for  
4           Savannah River, we would have used it.

5           **DR. BEHLING:** Possibly a way to avoid would  
6           have been to maybe use the 95th percentile  
7           among production workers where you leave the  
8           door wide open and say well, there'll be the  
9           other five percent that will be higher, but --  
10          for instance, in one of the most recent 20  
11          cases we evaluated (sic) I identified a person  
12          who was not among the high five. In fact, if -  
13          - if we used his data, he would be number two.  
14          And so, again, just -- this is another case  
15          that fell through the cracks, but it doesn't  
16          invalidate the process of using the high five  
17          as an efficiency measure that says for those  
18          people who were really not production workers,  
19          this is still a bounding approach to estimating  
20          any unmonitored intakes.

21          **MR. GRIFFON:** But I -- I think -- I mean I  
22          guess my -- my question -- I still have the  
23          question as to what -- where this -- you know,  
24          how this data was derived, where the high five  
25          came from, and then -- and then we might come

1 to that very conclusion, Jim, that you said  
2 which is that it's bounding. It's not the  
3 highest five ever, but it seems very bounding  
4 for the people it's applied to and for the  
5 efficiency model that it's used in.

6 **DR. NETON:** Right. I mean I haven't read the  
7 TIB in a while, but there is a --

8 **DR. LIPSZTEIN:** It's worth a discussion because  
9 what is written is that those are the largest  
10 intakes that were ever assigned at Savannah  
11 River Site, and -- and (unintelligible) the  
12 five intakes are cited, but there is no  
13 (unintelligible) how they were calculated, from  
14 -- where did they come from, if this same  
15 approach was used and from where this data was  
16 used. And as I -- I was telling when I  
17 analyzed one of the cases, I found an intake  
18 that was bigger than the five listed, so I said  
19 well, I don't know from where the data came  
20 from anyway. Maybe it was calculated in a  
21 different way and it was (unintelligible) the  
22 same event, I don't know. But it doesn't say  
23 how it was calculated, and that's a big problem  
24 because we don't know from where it comes and  
25 how it were -- was calculated.

1           **MR. GRIFFON:** So I think we -- I think this is  
2 also in our case review matrix to -- to follow  
3 up on this in the site profile review.

4           Correct, Jim?

5           **DR. NETON:** Yes.

6           **MR. GRIFFON:** So I -- I -- we won't lose this  
7 issue, but I think it -- that question still  
8 remains.

9           **DR. NETON:** I thought the site profile said it  
10 was going to be handled in the dose  
11 reconstruction review, too.

12          **DR. BEHLING:** Yeah, just to add to that  
13 statement --

14          **MR. GRIFFON:** Well, that's one of my fears  
15 here.

16          **DR. NETON:** No, it's in -- it's in the site  
17 profile review and we're committed to  
18 addressing -- I think -- it sounds to me like  
19 we just maybe need to go back and expand on  
20 that section of the TIB and -- and convince  
21 folks as to what we've done and what the real  
22 intent was rather than, you know, sort of  
23 leaving people with the assumption that this  
24 was the highest five recorded ever in the  
25 history of whatever, you know.

1           **MR. GRIFFON:** And another thing that struck me,  
2           I -- I also -- I think I saw that same case  
3           that Hans and Joyce are referring to, but prior  
4           to that I just looked at the -- the dates of  
5           these highest five -- quote/unquote, highest  
6           five intakes, and it struck me that they  
7           weren't all in the '50s and '60s. They were --  
8           there were some that were quite a bit later,  
9           and I -- that -- that was a little flag for me,  
10          although -- you know, it may well be true, but  
11          it surprised me to see that (unintelligible).

12          **DR. NETON:** Yeah, again, you know, I think if  
13          we couch this properly with the right, you  
14          know, caveats around it and let people know  
15          that we're not saying these were the highest  
16          ever, these are the highest we believe are  
17          reasonable, credible bounds for -- for this  
18          class of workers and that's maybe where we fell  
19          down here. And I think if we take a crack at  
20          that and expand it a little bit, maybe we'll  
21          make people feel a little more comfortable with  
22          the approach.

23          **DR. BEHLING:** I mean the case that I'm  
24          referring to, and I talked to you about, Mark,  
25          it's a urine data. And of course how we

1 calculate the intake is to use IMBA, and of  
2 course IMBA wasn't available at the time these  
3 -- these cases were classified as high -- high  
4 exposures. Whatever they used -- ICRP-30,  
5 manual hand calculations -- they're bound to be  
6 different from the ones that we're calculating  
7 starting out with the urine sample, working  
8 backwards through IMBA and saying okay, here's  
9 what IMBA predicts would have been the high --  
10 inhalation intake, and so it's quite possible  
11 that just on the methodology that we're using  
12 versus what was used initially as part of the  
13 database by -- from which you pick that -- that  
14 -- those high five, that that may account for -  
15 - for discrepancies.

16 **DR. NETON:** Type S versus class Y would make  
17 that kind of difference on an intake.

18 **MR. ALLEN:** Well, these were definitely ICRP-30  
19 calculated intakes.

20 **DR. NETON:** Right, and so, you know, you have  
21 differences in the model.

22 **MR. ALLEN:** That's the whole reason for all  
23 that convoluted evaluation in there about ICRP  
24 -- or the current models versus ICRP-30, to  
25 show that not so much, you know, a small

1 correction, but the -- to kind of bound how  
2 much of a difference it would make. Some of  
3 them went up, some of them went down. I think  
4 you're generally talking, worst case, around a  
5 factor of two on the big ones, on the important  
6 ones, so it's -- it's -- still says it's  
7 bounding because it's not a huge difference  
8 between the models.

9 **DR. NETON:** I think there's enough confusion  
10 here that we need to take on the responsibility  
11 here to go an clarify what we really meant to  
12 do here, and -- I don't think we -- I'm going  
13 to maybe embark on an entire reanalysis, but at  
14 least a few paragraphs to characterize the  
15 intent a little better and see how that flies,  
16 and then work from there.

17 **MR. GRIFFON:** Okay. Finding three is on the  
18 tritium. Right?

19 **MS. MUNN:** Agreed. We agree, it's just a  
20 tracking issue. Right? Mark?

21 **MR. GRIFFON:** Excuse me?

22 **MS. MUNN:** I said they agree, it's just a  
23 tracking issue, Mark.

24 **DR. BEHLING:** Is this the issue, Mark, that  
25 involves the assignment of tritium doses for

1           one microcurie versus five microcurie, the 71  
2           versus 355? Because there -- there were about  
3           -- there's three different procedures you can  
4           reference. Some have algorithms that you can  
5           use, but in many instances the issue stands  
6           around do I assign one microcurie or five  
7           microcurie, and the difference is obviously  
8           five-fold for an assigned dose for a lot of  
9           people. And I think Joyce may brought up, I  
10          certainly brought up in some of my reviews of -  
11          - of case -- cases that I've audited.

12          **MR. GRIFFON:** Yeah, I think that -- I think  
13          that might be the issue. I mean I guess the --  
14          the OTIB-3 versus 1, I guess they have to be  
15          consistent or complement each other. Right?

16          **MR. ALLEN:** Or cancel one.

17          **MR. GRIFFON:** Or cancel one.

18          **MS. MUNN:** We talked about that.

19          **DR. LIPSZTEIN:** Yeah.

20          **DR. BEHLING:** Yeah, I think in the first set of  
21          cases we had identified several maximized  
22          internal doses, some of which used the five  
23          microcurie per 24-hour urine volume and  
24          assigned 355 millirem each of those years, and  
25          another one was only the one microcurie per

1 liter or whatever it is that assigned the 71,  
2 and so there was an inconsistency by which the  
3 tritium doses were assigned.

4 **DR. NETON:** But were those compensable or not?

5 **DR. BEHLING:** No, no, they were not  
6 (unintelligible) --

7 **DR. NETON:** See, if they're not compensable --  
8 it's a similar issue to what we just talked  
9 about is -- you know, you could use multiple  
10 methods to come up with a dose that's less than  
11 50 percent. I mean that doesn't necessarily  
12 mean it's wrong or they're inconsistent.

13 **DR. BEHLING:** There's -- there's only one issue  
14 here, in fact, that -- and it's confusing,  
15 because then it says prior to the  
16 computerization of records, five microcuries  
17 per liter were not considered documentable --

18 **MR. ALLEN:** Intakes.

19 **DR. BEHLING:** -- urine intakes, and so that  
20 raised the question of what is really the more  
21 probable.

22 **MR. ALLEN:** That's what was going on was --  
23 you're seeing a progression of our methods  
24 through the program there, and OTIB-3, if I'm  
25 not mistaken -- whichever one had the five

1 microcuries --

2 **MR. HINNEFELD:** That was three.

3 **MR. ALLEN:** -- Savannah River -- they -- they  
4 took routine -- they took analysis on a lot of  
5 people, and they would record the analysis as  
6 read, but they didn't bother to calculate a  
7 dose from the tritium unless they exceeded five  
8 microcuries per liter, so the one TIB said  
9 therefore if there's no dose recorded, it had  
10 to be less than five microcuries per liter, and  
11 it gave a continuous five microcurie per liter  
12 type of dose as a very quick and easy  
13 efficiency way of doing it. And later that  
14 progressed on to going to their -- the actual  
15 bioassay and the recorded values there, and  
16 calculating a dose based on that and the OTIB-3  
17 five microcurie wasn't used anymore. And what  
18 you see in the procedure review was remnants of  
19 past methods, and that OTIB has been canceled  
20 now and I think we're probably -- got things  
21 cleaned up quite a bit better than  
22 (unintelligible) --

23 **MR. GRIFFON:** So which one's been canceled,  
24 Dave?

25 **MR. ALLEN:** OTIB-3.

1           **MS. MUNN:** Three.

2           **MR. ALLEN:** It was a --

3           **MR. HINNEFELD:** With --

4           **MR. ALLEN:** Go ahead.

5           **MR. HINNEFELD:** Yeah, with respect to the  
6           tritium approach in TIB-1, what we should do is  
7           see if we want to take that out and delete it,  
8           or if we just need to modify it to be  
9           consistent with the TIB-11, which is the new --  
10          sort of newest word on tritium intake. So  
11          that's our action on TIB-1, as part of the  
12          revision either to take out the tritium part or  
13          to make it consistent with the last word on  
14          tritium intake. I think.

15          **DR. BEHLING:** What is the new OTIB that treats  
16          tritium? I think we just got (unintelligible)  
17          --

18          **MR. GRIFFON:** (Unintelligible) yeah, we just --  
19          okay.

20          **DR. BEHLING:** Okay.

21          **MR. GRIFFON:** So you -- you're at -- that's  
22          what I was going to ask, in your NIOSH  
23          response, you haven't decided whether it'll be  
24          del-- removed or -- or modified at this point.

25          **MR. HINNEFELD:** Right.

1           **MR. GRIFFON:** You're still just deciding that.  
2           Okay, so it stands -- the same response stands  
3           and we'll wait and see for the revision of  
4           OTIB-1. All right. How about finding number  
5           four?

6           It seems to me the values in TIB-1 and 2 are  
7           going to be addressed in the subsequent  
8           revision.

9           **MR. HINNEFELD:** Right.

10          **MR. GRIFFON:** But as to the second point,  
11          there's no intent to relate it to job-specific  
12          -- relate the data to specific jobs.

13          **MR. HINNEFELD:** Right. TIB-1's -- we didn't  
14          intend to apply it to certain -- you know, or  
15          different numbers to different job categories  
16          if we're going to use TIB-1, so we didn't  
17          intend to do that as part of our clarification.

18          **MR. GRIFFON:** Okay, so more detail's going to  
19          be provided to clarify the values in TIB-1 and  
20          2, and reproduce the intakes in tables 3 and 5.  
21          Right?

22          **MR. HINNEFELD:** Uh-huh, right.

23          **MR. GRIFFON:** And then the middle part is not  
24          going to be addressed in this OTIB and SCA --

25          **DR. LIPSZTEIN:** Yeah, because some -- there is

1           some description of how they -- they -- they  
2           found the mean value, but even following the  
3           description you cannot get the same numbers --

4           **MR. GRIFFON:** Okay.

5           **DR. LIPSZTEIN:** -- so something different might  
6           have been done.

7           **MR. GRIFFON:** Okay. But as far as the second  
8           point in the SCA finding, relate data to  
9           specific jobs, I think that wasn't the intent  
10          of the OTIB to do that. Is SC&A okay with --

11          **DR. LIPSZTEIN:** That's okay.

12          **MR. GRIFFON:** All right.

13          **DR. LIPSZTEIN:** Right.

14          **MR. GRIFFON:** Moving on, finding five.

15          **DR. LIPSZTEIN:** It's the same thing.

16          **MR. HINNEFELD:** Same as number four.

17          **DR. LIPSZTEIN:** (Unintelligible)

18          **MR. GRIFFON:** Okay. Hello?

19          **MR. HINNEFELD:** We're still here.

20          **MS. MUNN:** Yes?

21          **MR. GRIFFON:** Oh, okay. Did Joyce fall off?

22          **MS. MUNN:** Don't know.

23          **DR. NETON:** Sounds like it.

24          **MR. PRESLEY:** This is Bob Presley. I'm still  
25          here.



1 question 'cause they're all --

2 **DR. BEHLING:** No.

3 **MR. GRIFFON:** -- for under 50 percent dose.

4 **DR. BEHLING:** Yes.

5 **MS. MUNN:** Uh-huh.

6 **MR. GRIFFON:** Right. Okay, finding seven?

7 **DR. BEHLING:** I think the issue here, and  
8 speaking in behalf of Joyce, perhaps is the --  
9 maybe this is an equity issue where we apply  
10 the same maximized dose for a guy who works  
11 there for six months and do the same thing for  
12 a guy who worked there for 30 years. In other  
13 words, we give them a one-time dose on the  
14 first day he starts out, then that's it, and  
15 one size fits all and I guess some people have  
16 raised the question is this fair. And perhaps  
17 you may start to encroach the issue of well,  
18 suppose the guy was there for 30 years, and  
19 every now and then there was a monitoring of  
20 urine and so forth, but I guess we will still  
21 say -- maybe it's easier just to throw in the  
22 high five or the 12 and 28 and be done with it,  
23 when in fact -- where's the bound-- where's the  
24 breaking point between saying the -- the one-  
25 time gift of 12 and 28 or high five is perhaps

1           maybe not always claimant favorable if you deal  
2           with a guy who started at Savannah River in  
3           1952 and worked to -- into the '90s. The  
4           question is where do we sort of look at this  
5           more skeptically and say maybe we should  
6           consider something a little more appropriate  
7           than a one-shot deal that occurred 50 years  
8           ago.

9           **DR. NETON:** Well, I think -- we talked earlier,  
10          if we had bioassay data, we would use it to  
11          make sure that the TIB was bounding, gave a  
12          higher dose and it was still not compensable.  
13          So we would -- we're supposed to do that. I  
14          mean if they come through the --

15          **DR. BEHLING:** The question, on the other hand,  
16          is early on in the '50s, the start-up of the  
17          reactors, perhaps there were no real monitoring  
18          data available for these people and is it  
19          possible that this unquestionable maximizing  
20          dose may not always be so certain as to be a  
21          maximizing dose for all people, given the  
22          longevity of employment and the time periods of  
23          employment.

24          **DR. NETON:** I think we need to look at the  
25          category of the workers to --

1           **MR. GRIFFON:** Yeah, I guess that's --

2           **DR. NETON:** -- what is being applied.

3           **MR. HINNEFELD:** It's a case selection issue,  
4 really. I mean --

5           **MR. GRIFFON:** That gets to the definition of --

6           **MR. HINNEFELD:** -- there may be cases where  
7 it's not appropriate --

8           **MR. GRIFFON:** -- unexposed or lightly --

9           **MR. HINNEFELD:** -- to choose to use that.

10          **MR. GRIFFON:** -- exposed. Right?

11          **DR. BEHLING:** Yes.

12          **DR. NETON:** I mean if the guy's a reactor  
13 operator and we applied the -- that high five,  
14 you know, and he had no bioassay in the '50s,  
15 that's probably not appropriate.

16          **DR. BEHLING:** Yeah, yeah.

17          **DR. NETON:** And so I think, you know, we have  
18 to be careful where we apply it.

19          **MR. GRIFFON:** So I think -- Hans, I think  
20 you're saying you're in agreement as long as  
21 care is taken in defining exposed -- I mean  
22 unexposed or lightly exposed.

23          **DR. BEHLING:** Yes. Yes.

24          **MR. GRIFFON:** Yeah, I would agree with that.

25          **DR. BEHLING:** I mean I would look at it in

1 terms of not just even the duration of  
2 employment, but the period of employment. You  
3 know, we always -- we're all aware of the fact  
4 that health physics has certainly improved over  
5 the years.

6 **MR. GRIFFON:** Period of employment and location  
7 and --

8 **DR. BEHLING:** Yes.

9 **MR. GRIFFON:** -- job type and --

10 **DR. BEHLING:** Yes.

11 **MR. GRIFFON:** -- all those factors.

12 **DR. NETON:** All those things have to be...

13 **MR. GRIFFON:** Okay, but I don't think there's  
14 any disagreement with NIOSH on that. Right.  
15 So does this -- I don't know that this requires  
16 any modification to the OTIB, does it, or does  
17 it?

18 **DR. BEHLING:** I mean it's possible if you  
19 wanted to accommodate and say that if a guy  
20 worked there for -- let's say for every 15  
21 years you apply this and say okay, he got it on  
22 the first day, and if he worked for 30 years,  
23 15 years later he got another maximized dose,  
24 in order to establish some equity between  
25 people on the basis of longevity of employment.

1 But that has a danger that it might bring  
2 certain dose assessments over the 50 percent  
3 value, and it's no longer a issue of  
4 compensability of a -- non-compensability of a  
5 claim.

6 **MR. HINNEFELD:** Yeah, I don't really view it as  
7 an equitable issue or equity issue for people  
8 you're doing dose reconstructions less than 50  
9 percent. You know, granted, a person who  
10 worked there six months clearly didn't get the  
11 same internal exposure as somebody who worked  
12 there ten years, but their dose reconstruction  
13 comes out less than 50 percent in both cases, I  
14 don't really view it as an equitable issue. I  
15 think it's really a case selection issue. It's  
16 not -- it's not something that we can address  
17 in the context of TIB-1, but would be a case  
18 selection process; are the cases appropriately  
19 selected to use TIB-1. That's really  
20 independent of what TIB-1 says to do. I'm not  
21 so sure -- I'm not so sure we can put a hard  
22 and fast time limit on there, either, because  
23 there are people who worked for 30 years at  
24 Savannah River who are lightly or unexposed the  
25 entire 30 years, in which case it would be

1 perfectly fine to use TIB-1 for those people.  
2 So I just -- I don't see a remedy that we can  
3 really manage -- I mean in TIB-1.

4 **MR. ALLEN:** I would like to point out, though,  
5 that TIB-1 includes a number of nuclides. It's  
6 the high -- you know, intended to be the high  
7 five intake of each of those nuclides, and  
8 there is nobody -- documented, anyway -- that's  
9 gotten the highest of any two or three of  
10 those, let alone -- I don't know how many are  
11 here -- 15 or more, so it still ends up being  
12 very bounding.

13 **MR. GRIFFON:** So -- so where do we -- I -- I  
14 understand you -- I mean I guess -- I guess  
15 OTIB-1 applies then an acute intake of these  
16 high five. Right?

17 **MR. HINNEFELD:** Yeah.

18 **DR. BEHLING:** Yes, first day of employment.

19 **MR. GRIFFON:** I'm refreshing my memory on  
20 these. So where -- where are we leaving this,  
21 'cause I -- I do -- I know some of your other -  
22 - again this is an overestimating technique,  
23 but -- but then there would be that question of  
24 -- I guess -- I guess that is -- you know,  
25 careful consideration to the -- to the -- I

1           could certainly see certain classifications of  
2           workers in certain areas that they would easily  
3           fit in this and be very -- a very claimant-  
4           favorable overestimating technique, but if  
5           someone was 30 years reactor operator, then  
6           you'd have to wonder if it -- if it applied.  
7           Right?

8           **MS. MUNN:** Yeah.

9           **MR. ALLEN:** Well, I guess the point I was  
10          trying to make is you'd have to almost believe  
11          he was involved with some 15 separate incidents  
12          to get this highest exposure to each of these  
13          isotopes. It's not like it's a one-shot acute  
14          intake, even though that's how it's calculated.  
15          It's more like there was, you know, say -- say  
16          15 isotopes, you know, it's like 15 different  
17          major incidents he would have had to have been  
18          involved in, but --

19          **MS. MUNN:** And that's so unlikely --

20          **MR. ALLEN:** -- should pretty well bound a 30-  
21          year career, I would think.

22          **MS. MUNN:** That's so unlikely as to be  
23          unreasonable.

24          **MR. GRIFFON:** Yeah.

25          **MS. MUNN:** And that's not --

1           **DR. MAURO:** This is John. I agree, this goes  
2           to the matter of does the dose reconstructor  
3           apply this at the right times. And of course  
4           it's going to be his judgment, I guess, looking  
5           at his particular case. If he's got a person  
6           there that's worked for 30 years, does have  
7           some bioassay data that would indicate he had  
8           some intakes periodically and perhaps even  
9           chronically, at some point he has to make a  
10          judgment whether he's going to go with the real  
11          data and do I guess a realistic case or -- and  
12          come in underneath, or go with the high five  
13          approach and come in underneath. Either way,  
14          what I'm hearing is when he makes these  
15          judgments, in the end this person's going to  
16          come in with a dose that is non-compensable.  
17          So there's a -- I could see where there is --  
18          the optics, to use Hans's term, could be  
19          difficult in that the same approach -- from an  
20          implementation side, you're -- a situation is  
21          created where there's an awful lot of judgment  
22          left in the hands of the dose reconstructor,  
23          and I guess how -- how is there some assurance  
24          that in fact this -- this methodology is in  
25          fact being used -- the selection process is

1 correct?

2 **MS. MUNN:** Well, John -- this is Wanda -- from  
3 my viewpoint, unless the case reviews that we  
4 see lead us to believe that there is a systemic  
5 error being made by the reconstructors in this  
6 -- in these cases, I don't see that there's an  
7 issue. There's always going to be a matter of  
8 judgment in any of these cases we pick up --

9 **DR. MAURO:** Yeah, that's true.

10 **MS. MUNN:** -- so unless we see that there's a  
11 recurrent problem as we review cases, I don't  
12 see that this is an issue we need to beat to  
13 death.

14 **DR. MAURO:** Yeah, I agree. Say, Hans, I don't  
15 know if you could -- do you remember off the  
16 top of your head, but in general are you seeing  
17 that this problem doesn't emerge, that it is  
18 being used appropriately?

19 **DR. BEHLING:** Well, I have one case currently,  
20 and I already made reference to it earlier in  
21 context with something that came up, but I do  
22 have a case currently among the 20 cases in set  
23 four where an individual had numerous  
24 urinalysis -- 157, I believe -- all of them  
25 very high, well above MDA for uranium. He was

1           in an environment that involved recycled  
2           uranium, so there are obviously contaminants in  
3           addition to uranium. He had numerous chest  
4           counts that indicated at least trace quantities  
5           of uranium and plutonium. And the guy opted to  
6           go with the 12 radionuclides, and -- I haven't  
7           run it yet, but it may very well be that the 12  
8           radionuclides will still end up with a higher  
9           dose, but I have to say, in the absence of  
10          running that data, you would be hard-pressed to  
11          come to that conclusion.

12          **MS. BEHLING:** I think the other issue that  
13          we're discussing on this particular item is  
14          looking at a long-term employee or an employee  
15          in some job function that would be at higher  
16          risk that's been unmonitored, and we're trying  
17          to -- am I -- and we're trying to determine  
18          will this high five approach -- and I think,  
19          based on what David Allen just said, that we're  
20          using all of these different radionuclides and  
21          it's as -- it's as if there would be 15 acute  
22          intakes, possibly, that helps to clarify it in  
23          my mind a little bit better.

24          **DR. BEHLING:** The improbability that even a  
25          long-term employee would exceed the 12 or 28.

1           **MS. BEHLING:** Right, we're looking at  
2           unmonitored, not necessarily would the person -  
3           - I think the dose reconstructors pretty well  
4           know to look at the bioassay data and if  
5           there's -- in most cases we see, if there's  
6           bioassay data there that they think may give  
7           some kind of a dose, they will run IMBA. But  
8           if they don't have to -- obviously they can run  
9           the efficiency process; it's easier for them --  
10          but that's I don't think what we're talking  
11          about in this particular issue, it's  
12          unmonitored --

13          **MR. GRIFFON:** Well, I don't think we're looking  
14          at unmonitored, either. I think --

15          **MS. BEHLING:** Oh --

16          **MR. GRIFFON:** -- the term is unexposed or  
17          lightly exposed.

18          **DR. BEHLING:** Yeah, it's a combination of  
19          everything --

20          **MR. GRIFFON:** It's a combination, but I think  
21          that's sort of the intent (unintelligible).

22          **DR. BEHLING:** And in so many cases, you know,  
23          the dose reconstructor actually ran IMBA and  
24          said this is what I would get, and you're  
25          getting the benefit of doubt by me giving you

1 the 12 or 28, and that's the right way to do  
2 it. This way there's no question that the --  
3 the assumed dose is always higher than the  
4 empirical dose. And we have plenty of cases  
5 where that was done.

6 **DR. NETON:** I'm curious if the --

7 **DR. MAURO:** Hans, I didn't quite follow that.  
8 Are you saying that you're seeing cases where  
9 the dose reconstructor did both --

10 **DR. BEHLING:** Yes.

11 **DR. MAURO:** -- that he used the monitoring data  
12 to see what dose that generated and then --

13 **DR. BEHLING:** Exact--

14 **DR. MAURO:** -- used the default --

15 **DR. BEHLING:** Exactly.

16 **DR. MAURO:** Oh, okay.

17 **MR. ALLEN:** Well, just -- this is Dave Allen.  
18 Just to clarify that, they ran like the 02  
19 numbers to predict a urine, right, for a --  
20 what 02 would give you, then com-- just  
21 visually compared that to the -- the bioassay  
22 the guy actually had. It's not like they went  
23 through a hard core internal dose estimate  
24 (unintelligible) --

25 **DR. BEHLING:** No, I think they actually ran the

1 urine data and basically said what's the  
2 inhalation, and then basically went through the  
3 hoops of trying to determine what would be the  
4 real dose if I relied on -- on bioassay data.  
5 We've seen (unintelligible).

6 **DR. NETON:** That's certainly not the most  
7 efficient way to do it.

8 **DR. BEHLING:** No, I realize that, but I think  
9 when you get to the cutting edge where you're  
10 not sure which one is going to give you the  
11 higher number, then you almost have no choice.

12 **DR. NETON:** No, but as you know, it's much  
13 easier to take an acute intake at day one and  
14 generate a series of curves and say are all  
15 those curves above all the datapoints that I  
16 might have for the person. It's much more  
17 efficient.

18 **MR. ALLEN:** Generate them (unintelligible) like  
19 TIB-2, it's a one-shot deal and you just --

20 **DR. BEHLING:** Oh, I realize that  
21 (unintelligible) --

22 **DR. NETON:** You have one intake and you  
23 generate the bioassay projections and -- and  
24 then you can say based on those bioassay  
25 projections, this is much higher than anything

1 I've seen in any of the (unintelligible) --

2 **DR. BEHLING:** Well, the -- the bioassay may  
3 have confined itself to a lot of uranium and --  
4 and then you're sort of hard-pressed to  
5 determine whether, you know, you can just make  
6 the comparison between uranium bioassay data  
7 against 12 or 28.

8 **DR. NETON:** Well, I mean if you had uranium --

9 **DR. BEHLING:** Well, I realize uranium is part  
10 of it, but you know, again --

11 **DR. NETON:** That's my point. I mean if the  
12 uranium bioassay's below the uranium intake  
13 that you'd assign, and then --

14 **DR. BEHLING:** Well, that -- that's the first  
15 cut.

16 **DR. NETON:** That's really the way it's supposed  
17 to work. I mean I don't know what you have for  
18 that particular case. Maybe somewhere imbedded  
19 in the files are some runs and possibly just  
20 didn't get written up in the dose  
21 reconstruction. I mean it -- I've got to  
22 believe at some point they ran something to  
23 show that the TIB numbers were higher than the  
24 --

25 **DR. BEHLING:** Oh, yeah, yeah, they did. They

1 did, and they state so. I mean they state that  
2 the --

3 **DR. NETON:** Well, you were talking about a  
4 current case you have where that wasn't --

5 **DR. BEHLING:** No, no, not on this one. The  
6 current case -- I'm sure that --

7 **DR. NETON:** Different story, yeah.

8 **DR. BEHLING:** -- the person didn't look at all.

9 **MR. GRIFFON:** Well, I think -- getting back to  
10 finding seven here, I think, you know, part of  
11 this comment can maybe be covered in NIOSH --  
12 Jim, you offered to -- or you offer that the  
13 staff would develop a clarifying appra-- you  
14 know, a couple paragraphs clarifying this  
15 approach, and I think that might also address  
16 this -- this question of, you know, the six  
17 months versus ten years versus 30 years and  
18 (unintelligible) --

19 **DR. NETON:** Yeah, that's a little different  
20 issue. We were tal-- I was speaking about  
21 addressing the high five and how they --

22 **MR. GRIFFON:** Right.

23 **DR. NETON:** -- they arrived at being bounding,  
24 and now I think I'm hearing another write-up,  
25 which would be a different issue, and that's

1           how one applies the high five or the bounding  
2           approaches to --

3           **MR. GRIFFON:** I guess I was going to add  
4           another paragraph to that, yeah.

5           **DR. NETON:** Yeah, and -- yeah, I don't know  
6           that we're going to act much differently than  
7           what we've been doing. There is some level of  
8           judgment required. You know, whether a person  
9           was unmonitored, it's pretty clear. Lightly  
10          monitored, there's some bioassay. I think  
11          we've got a direction for dose reconstructors,  
12          you need to compare the bioassay. Possibly  
13          this -- this gray area where it's -- I don't  
14          know, between lightly and -- my -- my guess is,  
15          and I don't do these every day, but that they  
16          tend to be conservative in the application of  
17          this and would not use it in cases where there  
18          was a gray area, but how we define that in a --  
19          in a paragraph, I'm not sure. I -- we can --  
20          we can try. I'll commit to that.

21          **MR. GRIFFON:** All right.

22          **DR. BEHLING:** And before you go on, Mark, I  
23          guess I do have a question because when the  
24          dose reconstructor receives a case isn't it  
25          true that someone screens that case ahead of

1           time and says treat this as a maximized dose  
2           reconstruction based on preliminary assessment,  
3           in which case he may not pursue any subjective  
4           interpretation of the data. He accepts the  
5           notion that this is a maximized dose  
6           reconstruction and that's just as far as he's  
7           going to evaluate it.

8           **DR. NETON:** I think --

9           **MR. ALLEN:** That's -- that's --

10          **MR. HINNEFELD:** Not entirely, no.

11          **MR. ALLEN:** I think -- like an administrative  
12          way of trying to triage claims, but the dose  
13          reconstructor's the one who's responsible.

14          **DR. NETON:** He's got the ultimate  
15          responsibility.

16          **DR. BEHLING:** Because in one of the Proc. 6  
17          there's a statement about the Task 2 people who  
18          will identify this or -- or essentially label  
19          this as a non-compensable case versus --

20          **DR. NETON:** Well, I think there's some of that  
21          judgment made, but -- but oftentimes it's --  
22          it's the very clear-cut cases get triaged that  
23          way where maybe you have zero bioassay data.  
24          The person is a -- an administrative type and  
25          it would go down one path and -- and, you know,

1           it may be a different set of dose  
2           reconstructors would be assigned those type of  
3           cases, but --

4           **MR. ALLEN:** It's not unusual for them to triage  
5           it one way, the dose reconstructor get ahold of  
6           it and say no, that's not going to work, you  
7           know.

8           **DR. NETON:** These are -- these are rough cuts.

9           **DR. BEHLING:** Okay. But I mean the -- the --  
10          the ultimate person who makes a -- or a final  
11          decision is in fact then the dose  
12          reconstructor.

13          **DR. NETON:** Yeah.

14          **DR. BEHLING:** He can overturn that -- that  
15          assessment.

16          **MR. HINNEFELD:** Yeah.

17          **DR. NETON:** Yeah, he signs it as having, you  
18          know, done the case. Or she, (unintelligible).

19          **MR. GRIFFON:** Can I -- I think we're going on  
20          to finding number eight, but can I -- is this a  
21          good time for a short comfort break here?

22          **DR. WADE:** I think so.

23          **MR. GRIFFON:** And then I don't know how -- Lew,  
24          how long can we go today or how long can people  
25          go? I mean --

1           **DR. WADE:** It's a matter of personal stamina.

2           **MR. GRIFFON:** You know, I was -- I was  
3 personally thinking --

4           **UNIDENTIFIED:** I think Lew's done.

5           **MR. GRIFFON:** I was personally thinking 4:00 or  
6 4:30, so...

7           **DR. WADE:** Well, let's say 4:30.

8           **MR. GRIFFON:** All right.

9           **DR. WADE:** Is that merciful?

10          **MS. MUNN:** That's merciful.

11          **MR. GRIFFON:** I didn't know if anybody there  
12 had flights to ca-- you know, flight issues.

13          **DR. NETON:** Flight issues?

14          **DR. WADE:** I think we have no flight issues.

15          **MS. MUNN:** We're trying to avoid that,  
16 remember?

17          **MR. GRIFFON:** Yeah, I know.

18          **MS. MUNN:** We're trying to get around that.

19          **DR. WADE:** Okay, let's take ten minutes, come  
20 back and we'll push hard to 4:30 and --

21          **DR. BEHLING:** Yeah, let's try to move this on.

22          **DR. WADE:** Okay, thank you.

23                   (Whereupon, a recess was taken from 2:30 p.m.  
24 to 2:48 p.m.)

25          **DR. WADE:** ... people are mostly here. Who do

1 we have on the line, please?

2 **MR. GRIFFON:** Mark Griffon.

3 **MR. PRESLEY:** Bob Presley.

4 **MR. GIBSON:** Mike Gibson.

5 **DR. MAURO:** John Mauro.

6 **MR. KOTSCH:** Jeff Kotsch.

7 **MS. HOWELL:** Emily Howell.

8 **DR. LIPSZTEIN:** Joyce Lipsztein.

9 **DR. WADE:** Okay, well, you're all welcome back.  
10 You're troopers to be back. So let's -- let's  
11 continue.

12 **MR. GRIFFON:** All right. We're on finding  
13 number eight, I believe, OTIB-1, finding eight.

14 **DR. LIPSZTEIN:** I think OCAS -- NIOSH has  
15 agreed with our commentary.

16 **MR. GRIFFON:** And does this -- is this -- more  
17 details needed to easily verify the values. Is  
18 this part of what we're going to get as this  
19 explanation, or is this going to be included in  
20 those tables? I'm not exactly clear, the  
21 response there.

22 **MR. HINNEFELD:** Well --

23 **MR. GRIFFON:** In a subsequent revision these'll  
24 be -- more details will be provided, is that  
25 what we're agreeing on?

1           **MR. ALLEN:** I think we're definitely agreeing  
2           on an evaluation and we suspect that's going to  
3           lead to a revision.

4           **MR. GRIFFON:** Okay.

5           **MR. ALLEN:** Does that work?

6           **MR. GRIFFON:** Okay, evaluate and revise as  
7           needed. Right?

8           **MS. MUNN:** Now originally we had said a  
9           revision was going to occur.

10          **MR. ALLEN:** Okay, I think you can pretty much  
11          say yeah, a revision is going to occur.

12          **MS. MUNN:** Good. Mark needs to track it.

13          **MR. GRIFFON:** All right, revise. And finding  
14          nine? I think we discussed --

15          **DR. LIPSZTEIN:** A finding -- can I -- or  
16          someone wants to speak?

17          **MR. GRIFFON:** Go ahead, Joyce.

18          **DR. LIPSZTEIN:** Okay. Finding nine, for me, is  
19          a big technical issue. I disagree with both  
20          arguments, the NIOSH response. We -- when we  
21          wrote the report, SC&A, we made a long  
22          explanation with a long list of -- for all  
23          radionuclides that were cited from the document  
24          showing that for most of them if you had used  
25          ICRP-68 instead of ICRP-30 you would get a more

1 claimant favorable result. Hello? Hello? Can  
2 you -- can you hear me?

3 **MR. GRIFFON:** You're still on -- yes.

4 **MR. ALLEN:** Yep.

5 **MS. MUNN:** Yeah.

6 **DR. LIPSZTEIN:** Okay, 'cause there was a buzz.

7 **MS. MUNN:** Yes, there was something strange.

8 **DR. LIPSZTEIN:** Yeah. So what happens is --  
9 and we wrote that -- that when -- the document  
10 says that -- they -- they used ICRP-30 models  
11 instead of the new models, and they say that it  
12 is necessary -- it's not necessary to use the  
13 exact values, but it must be shown that the  
14 values are indeed a likely overestimate. And  
15 then in this document (unintelligible) were  
16 calculated for ICRP-30 and ICRP-68, and they  
17 try to show that ICRP-30 methodology was --  
18 take a more claimant-favorable number than  
19 ICRP-68, but there were two mistakes on this.  
20 The first one was that when ICRP-30 and ICRP-68  
21 were compared, instead of comparing type F with  
22 class D, type M with class diablo, type S with  
23 class Y, they used for ICRP-68 the most soluble  
24 form of the material, and for ICRP-30 they were  
25 -- used the material class system to calculate

1           the intakes, what really happened. So there  
2           are two problems. The first, that when you use  
3           the most soluble form of the material, this  
4           doesn't give the higher dose because intakes  
5           when -- you don't -- don't come from the  
6           intake, you come from the bioassay results,  
7           from urine results, so you are going back.  
8           So sometimes type S -- if you have the same  
9           excretion in urine, sometimes type S gives a  
10          higher result than type F, a higher dose than  
11          type F. Because of that, if you want to  
12          compare ICRP-30 with ICRP-68, you have to  
13          compare class type S, class D with type F,  
14          class diablo with type M and class Y with type  
15          S. When you do this for most of the  
16          radionuclides, then we went on with that big  
17          list of them, each one by each one, and we  
18          showed that for most of them if you use ICRP --  
19          the new ICRP methodology you got numbers that  
20          were -- doses that -- intakes and doses that  
21          were higher than if you used ICRP-30. And was  
22          not something that you (unintelligible) just  
23          throw out, for example, for plutonium you --  
24          for type M plutonium -- for type S plutonium,  
25          for example, you got a difference -- like if

1           you used ICRP-30 you would get a dose and an  
2           intake between 15 percent and 22 percent of the  
3           dose using ICRP-30. So it's substantial. The  
4           variation was because of the number of the  
5           (unintelligible) that the -- if you have a  
6           urine sample -- it doesn't say -- the numbers  
7           that were written in the document, it doesn't  
8           say when it was taken, how many days after the  
9           intake was it taken, so you have to analyze to  
10          -- to right number of days and that's what was  
11          done also in the document. And we went through  
12          extensive list and there was only -- not to say  
13          that all of them ICRP -- the new ICRP  
14          methodology gave high results, but you had some  
15          like (unintelligible), for example, that would  
16          give -- the ICRP-30 would give a -- a more  
17          claimant-favorable result, but for most of the  
18          nuclides, especially the most important ones  
19          like uranium, plutonium, cobalt, strontium and  
20          magnesium, you get a higher dose and a higher  
21          intake if you use ICR-- the new ICRP method  
22          instead of ICRP-30.

23          **DR. NETON:** Well, I think the same argument and  
24          logic applies to what we discussed about a half  
25          an hour ago in that, you know, we've agreed to

1 go back and put a few paragraphs in there  
2 explaining our logic for using these values and  
3 whether or not we believe, for instance, the  
4 ICRP-30 calculated intake of say 160 nanocuries  
5 for plutonium is a bounding estimate for the  
6 class of workers. Joyce raises a lot of good  
7 points on -- on when you're trying to mix and  
8 match metabolic models, and I take no exception  
9 to that. But I think we need to do a better  
10 job explaining why we believe that the 100  
11 nanocuries or so for each of these  
12 radionuclides is -- is a credible overestimate  
13 for, again, the workers that we're applying  
14 this to.

15 I would -- I think I do remember some of these  
16 analyses, and I think we need to remember also  
17 that this applies primarily to non-metabolic  
18 organs. I don't think it applies to lung doses  
19 or anything like that. So it applies to organs  
20 that really are not in the metabolic model and  
21 so some of the calculations I think might have  
22 been a little bit off, but -- but again, I  
23 think the argument to be made here is that, you  
24 know, we need to justify why we believe these  
25 are high values.

1           **MR. GRIFFON:** Okay. Yeah, you -- and you --  
2           this -- this is covered in the few paragraphs  
3           that you offered earlier. Right, Jim?

4           **DR. NETON:** I hope so.

5           **MR. GRIFFON:** Same thing, yeah. Okay, and the  
6           next finding 10 is a little different question.

7           **DR. LIPSZTEIN:** Yes.

8           **MR. GRIFFON:** Go ahead, Joyce.

9           **DR. LIPSZTEIN:** No, I just -- if I -- if I was  
10          someone that didn't get -- I was just thinking  
11          if I'm the client, if I'm someone that I'm  
12          arguing to get a compensation, I would ask  
13          NIOSH why did you chose the five largest intake  
14          instead of the largest intake.

15          **DR. NETON:** Again, I think it's the same --  
16          same discussion.

17          **MR. GRIFFON:** Same -- yeah.

18          **MR. ALLEN:** Slightly different, I mean the high  
19          five rather than the highest one is -- is  
20          arbitrary. I mean there's no -- well, no doubt  
21          about that. I mean --

22          **DR. NETON:** Yeah, again, but you need to look  
23          at it --

24          **MR. ALLEN:** -- it's intended to be an  
25          overestimate, the highest intake or the highest

1 five intakes or the highest ten intakes should  
2 represent a high -- a bounding estimate for  
3 most non-monitored workers or low exposure  
4 workers.

5 **DR. NETON:** The thought just occurred to me  
6 that I think we're on the cusp of coming up  
7 with a Savannah River coworker model, or am I  
8 dreaming that?

9 **MR. ALLEN:** I think you're dreaming that one.

10 **DR. NETON:** Well, scratch that thought. I was  
11 just thinking if we had -- if we had a model  
12 developed since then or were about to publish  
13 one, it would easily address this issue by  
14 showing that the coworker -- a coworker model  
15 would be substantially lower in assigned dose  
16 than what we're doing here, but apparently I  
17 dreamt that over the weekend, so scratch --  
18 scratch that.

19 **MS. MUNN:** It's the snow.

20 **MR. ALLEN:** This particular comment does bring  
21 up an interesting question. I mean there's no  
22 reason to believe that an average of the  
23 highest ten won't overestimate the majority of  
24 workers out there in Savannah River, so I'm  
25 wondering if some of these smaller changes in

1           dose, if we increase doses for some of these --  
2           or at least evaluate, based on increases from  
3           some of Joyce's comments versus the decrease  
4           that would be caused by the highest ten, if  
5           we're not acceptable to say okay, we're good to  
6           go as-is.

7           **DR. NETON:** Yeah, we're thinking on the fly  
8           here, and I think maybe -- my thought was --  
9           behind this is that we -- we have to have some  
10          empirical thought process between why is say  
11          160 nanocuries bounding and if -- for a non-  
12          monitored worker who probably shouldn't have  
13          been monitored and -- you know, I'll use the  
14          extreme as an example; the administrative  
15          support staff, secretarial type, who barely  
16          entered the production environment -- I think  
17          we can build the argument in this few  
18          paragraphs as to why it's unlikely that this  
19          person who was not on the production lines, not  
20          opening drums, not doing the real mechanical  
21          processes, would fall in that category. I  
22          think we need to build that case.

23          **MR. GRIFFON:** Well, and Jim -- Jim, your  
24          comment was kind of leading to what I've been  
25          thinking, which is, you know, is -- is coworker

1 model for Savannah River being developed that's  
2 consistent with Y-12 and Mallinckrodt and, you  
3 know, that -- that sort of approach that you've  
4 been using at many of the other sites.

5 **DR. NETON:** Yeah, and I -- I thought that there  
6 was some efforts going down that path -- maybe  
7 we're not as close or far along as I -- as I  
8 had thought, but -- and that would -- that  
9 would be the ultimate, I think, 'cause then we  
10 could compare it to the monitoring data that  
11 are out there. And in fact this is kind of  
12 what we try to do. I mean rather than resort  
13 to coworker distributions, you take the highest  
14 five intakes that were assigned and -- and  
15 almost by definition those are going to fall  
16 somewhere in the coworker -- you know, the high  
17 end of the -- the very high end of the coworker  
18 model. It's just, you know, how do you -- how  
19 do you convince folks of that. It's something  
20 that's fairly intuitive, I think, but you know,  
21 can you put a slam dunk on it by -- you know,  
22 by looking at some existing processes and...

23 **MR. GRIFFON:** Well, yeah, and I guess that --  
24 you know, back to my point on that, I think  
25 your -- your evaluation report will go along

1 way to helping us to clarify this, though. But  
2 I mean back to -- to my other point on this  
3 whole thing, which is -- sort of falls in with  
4 Joyce's evaluation of 68 versus 30, I mean if -  
5 - if you had -- if NIOSH had independently  
6 evaluated these intakes, then you would have  
7 used 68 if you went back to the -- you know,  
8 the raw data and said okay, here's the --  
9 here's the incidents, let's re-evaluate the  
10 data itself, instead of taking just the intake  
11 from those cases.

12 **DR. NETON:** Yeah.

13 **MR. GRIFFON:** So you know, and -- and this  
14 issue would go away completely. But anyway, I  
15 think we'll wait for your evaluation report I  
16 think --

17 **DR. NETON:** Yeah.

18 **MR. GRIFFON:** -- I think, at this point, yeah.

19 **DR. LIPSZTEIN:** One of the thing -- I don't  
20 know how valid this is, but I was just thinking  
21 if I was someone that was applying for  
22 compensation, so for example if you look at the  
23 -- for example, for plutonium 241, there was  
24 that very high intake in '62, and then there  
25 was a high intake in '77 also, and then if I

1 worked in the '60s period, I would -- I would  
2 rather use the -- I would actually  
3 (unintelligible) I would -- why didn't they use  
4 the data from the '60, why did they mix with  
5 data from the '70s and -- and I get a lower  
6 intake on the calculation of my dose when I was  
7 not there in the '70s, for example.

8 (Unintelligible) you know, I know

9 (unintelligible) you have to -- you have to  
10 find a (unintelligible) criteria to use, but  
11 the criteria is objective and if you think on  
12 the side of the client, he might, you know, go  
13 with (unintelligible) and say look, I -- you  
14 know, this -- this was the -- where the largest  
15 intakes et cetera (unintelligible) they were  
16 from a time I was not working there. And  
17 that's why the -- the -- the mean of the five  
18 is lower than the highest intakes from the  
19 period I was working there.

20 **MR. ALLEN:** But the idea that it was -- we had  
21 some, I don't know, 6,000 intakes estimated by  
22 Savannah River and they were done using ICRP-30  
23 methodology is why we had all the  
24 consternations in there, but they were  
25 throughout time, so we picked the highest five

1 for each isotope that there was an intake  
2 calculated for. If we were to refine that to a  
3 -- say a decade, then by definition there's  
4 going to be some -- some in there that are much  
5 lower in that decade, so the average should  
6 drop. So I mean it's just a question of -- you  
7 know, is high five throughout -- high five  
8 throughout time is going to be higher than the  
9 high five for any given decade, generally.

10 **DR. LIPSZTEIN:** Depends on the decade  
11 (unintelligible) --

12 **DR. NETON:** It does, but --

13 **DR. LIPSZTEIN:** -- and I know you have to have  
14 a criteria, I don't argue with that. I'm just  
15 saying that if I was someone claiming for  
16 something, I wouldn't -- you know, and I  
17 understood what was on those tables, I wouldn't  
18 let it go like that.

19 **MR. GRIFFON:** I think -- I think at this point  
20 we'll wait -- you know, Jim's offered an  
21 evaluation report. I think we need -- you  
22 know.

23 **DR. LIPSZTEIN:** (Unintelligible)

24 **MR. GRIFFON:** Short evaluation report will help  
25 us, and then we can go from there. Right, Jim?

1 Is that --

2 **DR. LIPSZTEIN:** Okay.

3 **DR. NETON:** Yeah.

4 **MR. GRIFFON:** All right. Number 11?

5 **DR. LIPSZTEIN:** Number 11 -- I think Jim  
6 explained that at that time IMBA didn't have  
7 the -- all the numbers. Right?

8 **MR. GRIFFON:** Oh, right.

9 **DR. LIPSZTEIN:** And they had to use surrogates,  
10 and now this can be (unintelligible), is that -  
11 - did I understand right?

12 **MR. ALLEN:** Yeah, that was discussed earlier, I  
13 remember, anyway.

14 **MR. GRIFFON:** So this is the one revised as  
15 needed, sort of.

16 **DR. NETON:** Right.

17 **MR. GRIFFON:** Yeah, and it's -- so you didn't  
18 have the -- the most current version of IMBA,  
19 obviously.

20 **DR. NETON:** Right.

21 **MR. GRIFFON:** Right. Okay. Number 12? Oh,  
22 we've gone through the IMBA. A new topic,  
23 anyway.

24 **MS. MUNN:** Oh, goody-goody.

25 **MR. ALLEN:** Well, if nobody else will speak up

1           --

2           **MR. GRIFFON:** Yeah, go ahead.

3           **MS. MUNN:** Please do.

4           **MR. ALLEN:** This one our issue -- if I'm not  
5           mistaken, the comment was essentially if we  
6           assumed tritium was organically-bound tritium,  
7           the doses would be higher, and we agree. What  
8           we -- the problem is we cannot find any reason  
9           to believe at Savannah River that organically-  
10          bound tritium would be a significant --  
11          significant hazard compared to other forms of  
12          tritium.

13          **MS. MUNN:** That's good news.

14          **DR. MAURO:** John Mauro. We've been discussing  
15          this amongst ourselves also, and we feel that,  
16          given the -- that organically-bound tritium I  
17          believe may have up to a four-fold higher dose  
18          conversion factor -- I'm not quite sure, in  
19          that range -- and that the percent of exposure,  
20          though, to organically-bound tritium at  
21          Savannah River -- at least in the case of  
22          Savannah River, is -- is very small, so bottom  
23          line is this issue is really an extremely minor  
24          issue. And --

25          **MR. GRIFFON:** So in your --

1           **DR. MAURO:** -- so Hans or Kathy --

2           **MR. GRIFFON:** -- in your opinion --

3           **DR. MAURO:** -- did I correctly characterize  
4 this?

5           **DR. BEHLING:** Yeah, I think you said it. I  
6 guess the assumption of a ten-day biological  
7 half-life (unintelligible) in 40 days so it  
8 raises the (unintelligible) time integrated  
9 dose, but the percent of the organified tritium  
10 is so small as to make a difference as maybe  
11 one or two percent or something like that,  
12 which really is an insignificant -- has an  
13 insignificant impact on total dose.

14           **MR. GRIFFON:** So in your opinion, any -- any  
15 modification necessary to the TIB or no?

16           **DR. BEHLING:** No.

17           **MR. GRIFFON:** And did this finding cover metal  
18 tritides? I thought it also covered -- I guess  
19 just OBT, huh?

20           **DR. MAURO:** That's a separate one, yeah.

21           **MS. MUNN:** Just organics.

22           **MR. GRIFFON:** Metal tritides is separate? I  
23 don't see it.

24           **DR. MAURO:** I think they have it later  
25 (unintelligible).

1           **MR. HINNEFELD:** Metal -- metal tritides is --

2           **MS. MUNN:** Uh-huh.

3           **MR. GRIFFON:** Oh, okay.

4           **DR. MAURO:** We'll see, but I guess the only  
5 point being made here is that there's reason to  
6 believe that there's a large fraction of the  
7 tritium exposure was to organically-bound  
8 tritium. Well, yeah, then we have a three or  
9 four-fold (unintelligible), but if it's not, as  
10 is the case at Savannah River, I can't see  
11 really worrying too much about this.

12          **MR. GIBSON:** This is Mike Gibson. So you're  
13 speaking right now specifically at Savannah  
14 River and organically-bound tritium and, just  
15 as Mark said, not necessarily other forms of  
16 stable tritides?

17          **DR. MAURO:** Yeah -- yeah, there were these --  
18 another issue of I guess metal tritides that  
19 was -- I think that's here or -- I'm not sure  
20 if that's discussed with a specific -- other  
21 procedures, I'm not sure, but -- other separate  
22 issue, and I'm not quite sure where we came  
23 down on that one.

24          **DR. BEHLING:** I think it's part of the revised  
25 TIB-11, I think. Don't they discuss metal

1 tritides in TIB-11?

2 **MR. GRIFFON:** I guess that's what I was asking.  
3 It's coming up next, so we'll (unintelligible)  
4 in a second here. But yeah, OB-- so OBT for  
5 the -- for Savannah River Site for this TIB-1,  
6 you don't think that the TIB has to be modified  
7 in any way? I mean is -- is clarification  
8 needed that if it's likely that -- if -- if  
9 data suggests that a person was, you know,  
10 exposed to organically-bound tritium in any  
11 significant way, then -- then consideration  
12 should be given for a different -- I guess  
13 that's obvious, you know. I think that a dose  
14 reconstructor would do that if -- if data was  
15 there to present itself and -- so I guess no --  
16 no change is needed. Is that what --

17 **MS. MUNN:** Yeah.

18 **MR. GRIFFON:** -- I'm hearing?

19 **DR. BEHLING:** Perhaps a statement should be  
20 made that the issue of organified tritium has  
21 been looked into and there's no supportive data  
22 to suggest that it's there in significant  
23 quantities, which would then minimize the  
24 potential concern.

25 **MR. ALLEN:** You're talking about that statement

1 in the TIB --

2 **DR. BEHLING:** Yeah.

3 **MR. ALLEN:** -- or in the review of your --

4 **DR. BEHLING:** In the TIB, so that you can take  
5 a preemptive position in saying that this has  
6 been looked into and if there is data to  
7 support that statement perhaps then that would  
8 put that whole issue to rest.

9 **MR. ALLEN:** I'm kind of worried about it  
10 confusing people more than clearing things up  
11 if it's in the TIB.

12 **DR. BEHLING:** Well --

13 **MR. ALLEN:** It'd be great in the review, you  
14 know, or some documentation here.

15 **MR. GIBSON:** I couldn't hear that. What was  
16 that again? Who was talking?

17 **MR. ALLEN:** I'm sorry, this is Dave Allen. I  
18 was -- me and Hans were just talking across the  
19 table here and he's suggesting possibly a -- a  
20 few sentences in the TIB saying that  
21 organically-bound tritium was looked into and  
22 it's not an issue at Savannah River. I'm just  
23 wondering if it might not confuse the issue  
24 more than clarify it if it's in the TIB, and  
25 suggest maybe the -- somewhere in this review

1                   might be a better place for it.

2                   **MR. GRIFFON:** Yeah, and I think it's in the  
3                   NIOSH response right now as -- you know, what  
4                   you said is so far OCAS has not conceptualized  
5                   an exposure scenario da da da da da da. Could  
6                   I --

7                   **DR. LIPSZTEIN:** Yeah, because -- I'm sorry --  
8                   because the way it's written makes people more  
9                   confused 'cause it only says organically-bound  
10                  tritium historically has been ignored for  
11                  occupational dose assessment, and the Savannah  
12                  River Site assumes that there is no significant  
13                  quantities of stable metal tritides.

14                 **MR. GRIFFON:** Oh, that's different.

15                 **DR. LIPSZTEIN:** So it just says that this  
16                 historically has been ignored and then nothing  
17                 else about organically-bound, so maybe -- would  
18                 say that there are no significant quantities of  
19                 SMT and OBT, also.

20                 **MR. ELLIOTT:** Another thing to evaluate and --

21                 **MR. GIBSON:** This is Mike Gibson. Could I ask  
22                 this question of I guess someone from NIOSH,  
23                 and maybe this is not the right place for it,  
24                 but when -- if someone gets some illness, how -  
25                 - you know, whether it's -- I know you guys

1 deal with subtitle B and Labor deal with E, but  
2 how do we consider the combination of the  
3 radiation dose and possibly the toxicity of the  
4 metal that this tritium that's bound to that's  
5 lodged in the lungs and -- and the  
6 synchronization of -- of those two elements  
7 that may have caused whatever illness the  
8 people have?

9 **DR. NETON:** Well, I guess the short answer,  
10 Mike --

11 **MR. GRIFFON:** I guess, you know, in answer to  
12 your question, Mike, I think it's up to -- to  
13 Labor to do that under subtitle E, but --

14 **DR. NETON:** Right, we're -- we're not  
15 addressing at this point any -- any synergistic  
16 effects between other agents and radiation,  
17 mostly because we don't have the models  
18 available to do anything in that area  
19 (unintelligible).

20 **MR. HINNEFELD:** That'd be Labor, anyway.

21 **DR. NETON:** And Labor -- subpart E, as you --  
22 as you pointed out, is -- is tasked with doing  
23 that.

24 **MS. MUNN:** We are not charged to do so.

25 **MR. GIBSON:** So would it -- would be our --

1           would it -- this is Mike again. Is it under  
2           our charge to ask the Department of Labor to  
3           make sure that they are considering that, or  
4           should we raise that issue with them or who --  
5           how do we make sure this issue is addressed?

6           **MS. MUNN:** It wasn't -- this is Wanda. It  
7           wasn't in our charge when we were originally  
8           established, because that's the question I  
9           asked of several people at the time and read  
10          the documentation very carefully because I was  
11          concerned about having to express some opinions  
12          or develop expertise with respect to something  
13          other than radiation effects. I was hesitant  
14          to do that.

15          **DR. WADE:** It's not the responsibility of the  
16          Board. Certainly any individual member of the  
17          Board could comment to Labor, as they might  
18          wish --

19          **MR. GRIFFON:** Right.

20          **DR. WADE:** -- on the importance of that issue.  
21          But it's not the responsibility of this Board  
22          as constituted to look at that issue. Again, I  
23          would encourage you, if you have strong  
24          feelings, to let those feelings be known on a  
25          personal level.

1           **MR. GIBSON:** Okay, thank you.

2           **MR. GRIFFON:** Right, right, we don't advise  
3 Department of Labor.

4           Okay, so -- but -- but I'm just going back -- I  
5 guess Joyce is reading from the TIB, and that  
6 to me -- I mean that -- that raises a question  
7 of -- of -- in my mind, anyway, of NIOSH's  
8 response here. I mean I get the opinion, if  
9 I'm reading this right, from -- from your  
10 response that -- that -- that NIOSH has looked  
11 into this, that it's not just that historically  
12 OBT has not been considered, as is stated in  
13 the -- in the OTIB now. It's that NIOSH has  
14 investigated this and determined that no  
15 exposure scenario -- there's a difference  
16 there. It's subtle, but I think it's an  
17 important difference because I think if -- if  
18 workers at Savannah read that and said well,  
19 yeah, we know historically they haven't  
20 considered OBT, that's why we're concerned  
21 about it, or what -- you know, someone could  
22 say that. And I think it's different for NIOSH  
23 to say that we've looked at all possib-- you  
24 know, not all possible, but we've looked at,  
25 you know, all exposure scenarios we can think

1 of and we don't think OBT would be a -- have  
2 any kind of impact on the overall dose. Is  
3 that what was done here or...

4 **MR. ALLEN:** That's basically it, Mark, and we  
5 agree that the sentence in the TIB is very  
6 poorly worded and we -- I guess it's just a  
7 debate, you know, between us what's -- whether  
8 it's better to revise that or to eliminate the  
9 issue altogether from the TIB.

10 **MR. ELLIOTT:** We can certainly revise the  
11 sentence, but it's -- am I hearing that it's  
12 our understanding that we've not identified any  
13 processes or relevant exposure scenarios that  
14 would lead us to believe there was a high  
15 potential for organically-bound tritium?

16 **MR. ALLEN:** Right.

17 **MR. GRIFFON:** Right.

18 **MR. ELLIOTT:** And I hear SC&A must have come to  
19 that same conclusion in their evaluation of  
20 this piece. They don't find any process-  
21 related commentary that leads us to believe  
22 there's organically-bound tritium in --

23 **MS. MUNN:** Of any significance, yeah,  
24 (unintelligible).

25 **MR. HINNEFELD:** Of significance.

1           **MR. ELLIOTT:** Of significance.

2           **MR. HINNEFELD:** There would be some  
3           organically-bound tritium there, but we don't  
4           believe it's a significant exposure source for  
5           the workers --

6           **MR. GRIFFON:** Right.

7           **MR. HINNEFELD:** -- compared to the other  
8           tritium -- tritium forms, and so that's our  
9           opinion and I believe that's --

10          **MR. ELLIOTT:** So it goes back to how we -- how  
11          we characterize what we've done here and how we  
12          explain and communicate what we've done.

13          **MR. HINNEFELD:** Right.

14          **MR. ELLIOTT:** So it's -- we will take that to  
15          note.

16          **MR. GRIFFON:** Okay, yes -- yeah, thanks for  
17          that clarification, Joyce. I mean

18          **MR. ELLIOTT:** Open for suggestions.

19          **MR. GRIFFON:** -- so I put -- I put that NIOSH  
20          will consider revising or deleting language in  
21          TIB related to organically-bound tritides.  
22          SC&A agrees -- I'll put that first, that SC&A  
23          is in agreement with the NIOSH response, and  
24          NIOSH -- additionally, NIOSH will revise or  
25          delete language in TIB related to organically-

1 bound tritides. Is that okay?

2 **DR. LIPSZTEIN:** Okay.

3 **MR. GRIFFON:** Number 13.

4 **DR. LIPSZTEIN:** The uncertainty problem. I  
5 agree with some of the arguments saying that  
6 there's an overestimate of the dose, given the  
7 high five. On the other hand, we know that the  
8 IREP program, it depends a lot on the  
9 uncertainty issue. If the uncertainty is  
10 higher, you get a higher probability of getting  
11 compensation. Now when you consider the  
12 intakes from the high five, you have some  
13 intakes that were taken in the early years, so  
14 they had a higher -- high uncertainty linked to  
15 them. So I think something has to be written  
16 about the uncertainty. I might even consider  
17 okay, it's an overestimate, the high five, and  
18 so we don't need to consider the uncertainty.  
19 But something has to be said about uncertainty  
20 because we know IREP depends on -- the result  
21 of IREP depends on the uncertainty.

22 **DR. NETON:** Well, IREP has a lot of uncertainty  
23 other than the dosimetric uncertainty. In  
24 fact, the radiation effectiveness factors are  
25 all in there with a fair amount of uncertainty,

1 but I suppose -- I don't have a fundamental  
2 argument against saying why uncertainty's not  
3 included. I would object to including  
4 uncertainty in that analysis if we do agree  
5 that these are bounding values 'cause otherwise  
6 why have a bounding value. Why not use our  
7 best estimate of the maximum intake. I mean  
8 then we -- you know, it doesn't --

9 **MR. HINNEFELD:** Our best estimate of the  
10 person's intake. Remember --

11 **DR. NETON:** Yeah -- yeah, right --

12 **MR. HINNEFELD:** -- these are overestimates for  
13 --

14 **DR. NETON:** Right, and that's my point.

15 **MR. HINNEFELD:** -- this person, and so that's  
16 just the general approach on it.

17 (Unintelligible) overestimate or an  
18 underestimate on a quantity that we put in IREP  
19 we enter as a constant so IREP has to sample a  
20 distribution, it samples that number every  
21 time.

22 **MR. ALLEN:** I think Joyce was just saying that  
23 we should --

24 **MR. HINNEFELD:** Explain it in --

25 **MR. ALLEN:** -- include that statement --

1           **MR. HINNEFELD:** -- the TIB, right.

2           **MR. ALLEN:** -- yeah, I --

3           **DR. NETON:** Yeah, I don't have a problem with  
4           that.

5           **MR. HINNEFELD:** That -- that's appropriate.

6           **DR. NETON:** If we -- if we include a statement  
7           saying that a constant will be used and --  
8           because of, you know, way -- a rationale as to  
9           why.

10          **MR. GRIFFON:** Okay. Number 14.

11          **MR. HINNEFELD:** Number 14 I thought was sort of  
12          a summary comment 'cause it kind of encompasses  
13          many of the other comments --

14          **MR. GRIFFON:** Okay.

15          **MR. HINNEFELD:** -- that were made, unless I  
16          misinterpreted.

17          **MR. GRIFFON:** Okay. That's fine, then we've  
18          covered that one. Is that a separate finding  
19          even, or can it be deleted as a finding?

20          **DR. LIPSZTEIN:** Yeah, it could -- yeah, it --  
21          everything that is -- is said again, yeah.  
22          It's just a (unintelligible).

23          **MR. GRIFFON:** I'm asking, I'm not stating it.

24          **DR. LIPSZTEIN:** No, no, it's just -- just a  
25          repetition, yeah.

1           **MR. GRIFFON:** So just drop -- I think just drop  
2           the finding 'cause it's repetitive. Right.

3           **DR. LIPSZTEIN:** Yeah.

4           **MR. GRIFFON:** All right. On the next -- we're  
5           on to TIB-3 --

6           **MS. MUNN:** Which is then --

7           **MR. GRIFFON:** -- and for almost all of these I  
8           have see TIB-11 in new review.

9           **MS. MUNN:** And it's -- it's gone, anyhow.

10          **MR. GRIFFON:** Right, so we -- we've -- have we  
11          committed -- Lew, you have a listing of these,  
12          or someone is tracking this -- or John, maybe,  
13          TIB-11, have we assigned that?

14          **DR. MAURO:** If it's not on the list we'll put  
15          it on the list and we'll -- but I believe it  
16          is. Okay -- Kathy, did you bring the list with  
17          you?

18          **MS. BEHLING:** Yes, I did, and it is on the  
19          list.

20          **DR. MAURO:** Okay, thank you.

21          **MR. GRIFFON:** So I don't know that we have to  
22          go through these if...

23          **MS. MUNN:** I think we can dispense with three,  
24          can't we?

25          **DR. BEHLING:** Yes, yes.

1           **MR. GRIFFON:** Now going to the bottom of the  
2 page, TIB-4, again, we also committed to  
3 reviewing TIB-4, P -- Rev. 3-P (unintelligible)  
4 like that?

5           **MS. BEHLING:** Yes.

6           **MR. GRIFFON:** What was the number, for the  
7 record, TIB --

8           **DR. MAURO:** TIB-4, Rev. 3-P-1.

9           **MR. GRIFFON:** P-1? Okay.

10          **DR. NETON:** P-1? PC change?

11          **MR. HINNEFELD:** PC -- probably PC-1.

12          **DR. MAURO:** (Unintelligible) were requested to  
13 add that to the list, which we will.

14          **MR. GRIFFON:** So I'm not sure, again, if we  
15 need to -- well, do we need to go through these  
16 if -- if everyone could look down them and see  
17 if there's anything we need to go through or if  
18 they can wait for the revision. Most of them  
19 refer to the fact that things have been changed  
20 in the revised TIB.

21          **MS. MUNN:** Item six, is that still --

22          **MR. GRIFFON:** Yeah, that's what I'm looking at  
23 is number six.

24          **MS. MUNN:** -- still hanging out there?

25          **MR. GRIFFON:** Stu, on item six, is there -- I

1 see disagree.

2 **MS. MUNN:** Yeah.

3 **MR. GRIFFON:** And then it refers to TIB -- to -  
4 -

5 **MR. HINNEFELD:** Yeah, actually it refers you to  
6 the next response, which refers to the  
7 revision.

8 **DR. LIPSZTEIN:** The response for seven says  
9 that --

10 **MR. GRIFFON:** A major revision. Right?

11 **MR. HINNEFELD:** Yeah.

12 **DR. LIPSZTEIN:** -- a revision.

13 **MR. HINNEFELD:** So if that -- so the first part  
14 there has to go to the -- to the new -- the  
15 revised -- the review of the revised version we  
16 just talked about. Right? It has to wait for  
17 that since the response says it's based on  
18 that. And then the parenthetical number two  
19 here has -- that has to do with breathing rate,  
20 which has kind of been worked over pretty hard  
21 on Bethlehem -- in the Bethlehem Steel context,  
22 I think, so I don't know where we stand exactly  
23 on that today.

24 **MR. GRIFFON:** Well, I was going to ask that --  
25 okay, let's -- let's leave that one for a

1 second and we'll come back to that. Finding  
2 number eight, I think this was also discussed -  
3 - discussed in Bethlehem, this -- the one  
4 percent --

5 **DR. LIPSZTEIN:** Yeah.

6 **MR. GRIFFON:** -- per day question, and there's  
7 a disagreement. But NIOSH is developing a  
8 generic position on this, aren't you?

9 **DR. NETON:** What's the specific issue?

10 **MR. HINNEFELD:** Residual contamination and how  
11 quickly it --

12 **DR. BEHLING:** One percent per day.

13 **MR. HINNEFELD:** -- how -- how quickly it  
14 changes. That's the residual contamination  
15 model.

16 **DR. NETON:** Residual contamination model,  
17 right, has been revised. We agreed to review  
18 this at other sites where it may be applicable,  
19 that's correct.

20 **MR. GRIFFON:** And you're -- are you going to  
21 try to establish some kind of generic --

22 **DR. NETON:** Yeah, that's a -- that would be  
23 more of a generic approach -- well --

24 **MR. GRIFFON:** At least generic guidance.  
25 Right? Yeah.

1           **DR. NETON:** Is there not a TIB that already has  
2 generic guidance?

3           **MR. GRIFFON:** I don't know.

4           **DR. NETON:** I thought -- well --

5           **MR. ALLEN:** There is for ingestion. We've --

6           **DR. NETON:** -- yeah, this -- this -- in the  
7 context --

8           **MR. ALLEN:** -- got several issues we're --  
9 might be mixing up here.

10          **DR. NETON:** Right, but we do -- we did agree to  
11 -- to -- we agreed to review the residual  
12 contamination approach at all the sites, based  
13 on our experience at the Bethlehem Steel  
14 review. I think we did.

15          **MS. MUNN:** Yeah, I thought you did, too. So we  
16 can say generic guidance will be developed?

17          **MR. GRIFFON:** Am I confusing issues? Is --  
18 Dave, did you say -- I think --

19          **MR. ALLEN:** Either you are or I am, Mark, I'm  
20 not sure.

21          **MR. GRIFFON:** I could be, that's for sure.

22          **MR. ALLEN:** No, I suspect I'm just forgetting  
23 what all we've committed to here, I just --

24          **DR. NETON:** Well, remember, I thought -- I  
25 thought --

1           **MR. ALLEN:** We keep (unintelligible) a list.

2           **DR. NETON:** -- and I'm speaking probably cold  
3 here -- I am speaking cold here so it's a  
4 little bit vague, but I thought -- remember at  
5 Bethlehem Steel how we came up with, you know,  
6 the air monitoring model that we used and --  
7 and --

8           **MR. ALLEN:** That was all for ingestion.

9           **DR. NETON:** That was for ingestion.

10          **MR. ALLEN:** The -- Bethlehem Steel, the  
11 residual contamination was handled on -- on its  
12 own data, it was --

13          **DR. NETON:** Right.

14          **MR. ALLEN:** Actually I take it back, it ended  
15 up being that dilution model.

16          **DR. NETON:** Right, so we've adopted a slightly  
17 different approach. I think -- I think the  
18 best we can commit to here is go back and see  
19 what we committed to doing. I've forgotten,  
20 honestly, where this stands.

21          **MR. GRIFFON:** Okay, we'll -- we'll -- yeah,  
22 we'll agree --

23          **DR. NETON:** I don't want to -- I don't want  
24 to...

25          **MR. GRIFFON:** Right, this is not -- we won't

1           commit at this point on that action, but I  
2           think there was some -- some agreement on some  
3           sort of generic...

4           **DR. NETON:** I know with Bethlehem Steel there  
5           were two other bigger issues, which were oro-  
6           nasal breathing we committed to evaluating --

7           **MR. GRIFFON:** Right.

8           **DR. NETON:** -- and also the extent of ingestion  
9           at DOE facilities. And those are the two I'm  
10          very certain of. The third piece I'm a little  
11          fuzzy on.

12          **MR. GRIFFON:** And those two come down in items  
13          ten and 11, I think.

14          **DR. NETON:** Right, and if that -- if those are  
15          addressed there, we are going to -- that is  
16          true that we are working on generic guidance  
17          there. It would be its own separate TIB.

18          **MR. GRIFFON:** Okay, so -- so eight we'll leave  
19          -- we'll leave as a question mark, you know,  
20          let's look back at Bethlehem Steel, but  
21          possibly generic guidance. Nine I think is --  
22          is the new revision -- it's being addressed in  
23          the new revision and we'll cover it there. Ten  
24          is, again, this breathing rate which was  
25          referenced a little earlier on I think also in

1 -- in finding six and the light worker model.

2 **MS. MUNN:** Yeah, we worked that one pretty  
3 hard.

4 **MR. GRIFFON:** Yeah, but the -- did we commit to  
5 -- is this part of that generic guidance?

6 **MS. MUNN:** My memory is that it was agreed that  
7 a generic guidance would be forthcoming with  
8 respect to the oro-nasal breathing thing, the  
9 light worker, et cetera. That was my memory.  
10 I thought we had that one closed and on a  
11 working list somewhere.

12 **MR. GRIFFON:** I -- I think so. Is that true?

13 **DR. WADE:** It's what I remember.

14 **MR. HINNEFELD:** (Unintelligible)

15 **DR. WADE:** Yep, we're saying yes.

16 **MR. GRIFFON:** Okay.

17 **MR. ALLEN:** Don't ask me, I've slept since  
18 then.

19 **MS. MUNN:** Twice.

20 **MR. GRIFFON:** And then number 11, do we have a  
21 similar response, or no response?

22 **MS. MUNN:** Yeah. Yeah, I think it was a  
23 similar response.

24 **MR. ALLEN:** That one I remember.

25 **MS. MUNN:** Yeah, they were both --

1           **MR. GRIFFON:** Yeah, okay. One-third of the way  
2 through what we intended to do. Okay, 3:30,  
3 shall we move on to the second set of 18?

4           **DR. WADE:** Might as well.

5           **MR. GRIFFON:** And at least -- at least make a  
6 dent in it if -- I'm not sure how far along  
7 we'll get, but at least move it ahead a little.  
8 Is everybody ready? I -- wait for you to the  
9 document in front of you or...

10          **MS. MUNN:** On your mark, get set --

11          **MR. GRIFFON:** Get set --

12          **MS. MUNN:** -- go.

13          **MR. GRIFFON:** -- take a deep breath and go.  
14 All right. First page, case 21.1, finding --  
15 finding one. And -- and I should say in  
16 starting this discussion, I've penciled in some  
17 -- these other rankings that we've done as a  
18 workgroup before, so we don't have to discuss  
19 those now, but I've tried to get a handle on  
20 this site/program ranking, the category --  
21 technical, procedural, otherwise -- the  
22 section, external or medical, internal. And  
23 lastly, after we hear a NIOSH response or NIOSH  
24 resolution, I guess we'll fill in that Board  
25 action number that was done in the first set of

1           20.

2           So 21.1 says reviewer identified errors in  
3           calculation of recorded photon doses.

4           **MR. HINNEFELD:** Yeah, it looked to me like  
5           there are two different records in this  
6           claimant's folder about getting their exposure  
7           record. There was one that gives a skin -- or  
8           a shallow and a deep number that appeared to be  
9           photon only because there was also a neutron  
10          column on there. And then there's a  
11          handwritten summarized page that only gives a  
12          deep and shallow. And if you look at the  
13          numbers, the neutron -- the neutron number has  
14          been added to the deep photon on the first  
15          sheet in order to get the deep number on this  
16          sheet. And so the years that correspond to the  
17          arithmetic error were the years when there was  
18          a neutron number other than zero. So it seems  
19          like the starting point -- what the dose  
20          reconstructor did was -- to put a starting  
21          point on this calculation was to take the  
22          difference between the shallow and deep photon,  
23          ignoring the neutron part, and used that as the  
24          starting point of the calculation. The  
25          difference is so small, though, I don't know

1           that we want to spend a lot of time fighting  
2           this out.

3           **MS. BEHLING:** No --

4           **MR. HINNEFELD:** I mean it's a trivial  
5           difference.

6           **MS. BEHLING:** -- in fact I think what happened  
7           in this case, there was an underestimation of  
8           the 30 to 250 keV dose and overestimation of  
9           the over 30, so they (unintelligible) out.

10          **MR. HINNEFELD:** Yeah, it kind of balanced out.  
11          It really makes no difference in the outcome of  
12          the case. I mean we'd have to fight through a  
13          lot of details here to come to resolution on it  
14          here, so I'd just as soon go on.

15          **MS. BEHLING:** Yeah. No, it's just one of the  
16          things that we look at and we saw that there  
17          was an error.

18          **DR. BEHLING:** Let me --

19          **MR. GRIFFON:** So --

20          **DR. BEHLING:** Mark, let me make a couple of  
21          comments. I think when -- when we look at the  
22          dose reconstruction audits, you can classify  
23          some of the findings in several categories.  
24          Some of -- some of those categories may not  
25          require any resolution. And what do I mean by

1           that?  If -- if we see, for instance, that  
2           there was a mathematical error done by one dose  
3           reconstructor, it's a finding for that  
4           particular audit, but it has no implications  
5           for the program and for the process of dose  
6           reconstruction, and I don't think we need to  
7           invest a lot of time under those conditions.  
8           If, on the other hand, we find that there is  
9           recurrent error committed by --

10       **MR. GRIFFON:**  Right.

11       **DR. BEHLING:**  -- a dose reconstructor after  
12       dose reconstructor, and we find that root cause  
13       is an ambiguously-phrased procedure, then I  
14       think there is reason to request that changes  
15       be made in order to rectify that.  And so I  
16       think -- let's be careful in identifying errors  
17       that are one of a kind because a dose  
18       reconstructor was -- probably had his mind on  
19       something else, as opposed to systemic errors  
20       that reflect ambiguous procedures or -- or  
21       insufficient training on the part of the dose  
22       reconstructor, et cetera.  Those we can fix.

23       **MR. GRIFFON:**  Yeah -- yeah, I agree with you,  
24       Hans, or -- or the other reason for looking for  
25       those patterns might be a quality control

1 effort --

2 **DR. BEHLING:** Yes.

3 **MS. BEHLING:** Exactly.

4 **MR. GRIFFON:** -- which -- which, again, in  
5 these maximizing cases is, you know, probably  
6 not as -- as relevant. But as we get into the  
7 best estimates, certainly --

8 **DR. BEHLING:** Yes. Yes.

9 **MR. GRIFFON:** Yeah. So for this, I think --  
10 you know, we have SC&A and NIO-- I'm just  
11 writing this in the NIOSH resolution column,  
12 SC&A and NIOSH agree with minor technical  
13 errors; however it would have no effect on --

14 **DR. BEHLING:** Yes. And for that reason, we  
15 have that checklist that says what is the  
16 implication of the findings, and we you see a  
17 low finding that says yeah, technically it's  
18 incorrect, but does it really impact anything  
19 regarding the dose, let alone the POC. And if  
20 the answer's no, then it's just a technical  
21 issue that -- because we started off with the -  
22 - with the -- on the premise that we have to  
23 demonstrate to the members of the Board that we  
24 understand the dose reconstruction process by  
25 tracking each and every number through all of

1 the manipulations that went into the dose  
2 reconstruction. And in the process we  
3 uncovered errors that oftentimes are so minimal  
4 and so subtle -- subtle that they require no  
5 resolution.

6 **MR. GRIFFON:** Right. Okay.

7 **DR. LIPSZTEIN:** May I ask where are you,  
8 because I'm completely lost.

9 **MS. BEHLING:** Joyce, we're onto a new matrix.  
10 This is the Task IV matrix.

11 **DR. BEHLING:** You may not have it, Joyce.

12 **DR. LIPSZTEIN:** I don't have it, so -- okay, so  
13 then I think -- do you need me or should I hang  
14 up, because I don't have it.

15 **DR. MAURO:** Well, Joyce, you know what you  
16 could do -- because I'm working from the actual  
17 report, the big report, the three-ring binder.  
18 It tracks very nicely to the matrix 'cause  
19 that's how he built it, and so I'm able to  
20 track it even though I don't actually have the  
21 matrix in front of me.

22 **MS. BEHLING:** I apologize, Joyce. I didn't  
23 know if you were going to participate in this  
24 portion, but you certainly -- you can do -- you  
25 know, do what John is suggesting here.

1           **DR. LIPSZTEIN:** Uh-huh, which -- which document  
2           is it?

3           **DR. MAURO:** You know the big white book, three-  
4           ring binder --

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

6           **DR. MAURO:** -- it says (unintelligible) second  
7           set of cases, May 2005.

8           **DR. LIPSZTEIN:** Oh, okay.

9           **MR. GRIFFON:** Second -- second set of cases,  
10          yeah.

11          **MS. MUNN:** Cases 21 through 38.

12          **DR. LIPSZTEIN:** Okay, I'll try to look for it  
13          and I'll come back if I find it.

14          **MS. MUNN:** Mark --

15          **DR. LIPSZTEIN:** Okay?

16          **MR. GRIFFON:** Yeah.

17          **DR. BEHLING:** Okay.

18          **MS. BEHLING:** Okay, thanks, Joyce.

19          **DR. LIPSZTEIN:** 'Bye. Thank you.

20          **MS. MUNN:** Mark, I --

21          **MR. GRIFFON:** Yeah.

22          **MS. MUNN:** I know that we haven't done this in  
23          the past, but it has occurred to me that  
24          perhaps the most effective way for us to  
25          address these very detailed findings on the

1 case reviews would be to change our approach  
2 just a little bit and perhaps look at those --  
3 only those cases that are going to have a large  
4 impact or a definable impact first, and then go  
5 back and see -- then go through the lower case  
6 ones. Perhaps that -- that may not be  
7 effective in the long run, but I'd certainly  
8 like to try that at some juncture. As Hans has  
9 pointed out, are findings that are not  
10 repeatable things or are findings about which  
11 we really cannot do anything. And if that's  
12 the case, then -- then our -- our resolution  
13 will need to end up being no action necessary.  
14 On the other hand, if there is an appreciable  
15 effect, potentially, from the error, then  
16 that's something that we may have an amount of  
17 discussion about.

18 **MR. GRIFFON:** I don't disagree with you, Wanda.  
19 I -- I've actually tried this in the past,  
20 though, and it ends up that we end up going  
21 back through them one by one. I think part of  
22 the problem is that we -- you know, the matrix  
23 is useful, but it's also written in very  
24 shorthand summary fashion. And if we skip some  
25 of these I think we might -- we might miss

1 something that we should have probably went  
2 through.

3 **MS. MUNN:** Oh, I wasn't suggesting that we skip  
4 them. I just --

5 **MR. GRIFFON:** Oh, okay.

6 **MS. MUNN:** -- suggest that we reprioritize our  
7 approach to them so that the ones that are of  
8 significance we can tell, that those be the  
9 ones we discuss first so that the others, which  
10 may respond only -- the result -- the resulting  
11 response may only be no action necessary, no  
12 action necessary --

13 **MR. GRIFFON:** Yeah, okay, I -- I just think --  
14 I mean my -- my impression is that if we go  
15 through them one by one we might -- I think  
16 those ones are going to pop out that are easy  
17 to dispose of and we won't have a lengthy  
18 discussion on them.

19 **MS. MUNN:** Okay, you're the guy that --

20 **MR. GRIFFON:** I hope. I hope. I mean I --  
21 'cause I'm looking through -- I highlighted on  
22 -- on the computer and I have little tidbits  
23 highlighted sporadically here, and it's not  
24 obvious --

25 **MS. MUNN:** That's fine. You don't -- you don't

1 need to --

2 **MR. GRIFFON:** It's not obvious how to --

3 **MS. MUNN:** -- placate me, just go -- go with  
4 it.

5 **MR. GRIFFON:** -- prioritize, that's what I'm  
6 trying to say. Okay.

7 **MS. BEHLING:** Now I agree with you, Mark,  
8 because in some of these cases we might be able  
9 to say let's go through the case rankings and  
10 pick mediums or highs, but we will miss issues  
11 that I think --

12 **MR. GRIFFON:** Right.

13 **MS. BEHLING:** -- are important to discuss along  
14 the way.

15 **MS. MUNN:** Well, I think we need to discuss  
16 them all.

17 **MS. BEHLING:** Yeah.

18 **MS. MUNN:** I wasn't suggesting not discussing  
19 them.

20 **MR. GRIFFON:** Yeah, I'm just trying to --

21 **DR. BEHLING:** And -- and when you --

22 **MR. GRIFFON:** I'm try-- I think right now it'd  
23 be better just to go through and maybe --

24 **MS. BEHLING:** Be sen--

25 **MR. GRIFFON:** -- for the next -- for the next

1 version we'll try to prioritize ahead of time.  
2 That's not a bad idea, but --

3 **MS. BEHLING:** Yeah, in fact that's something I  
4 want to discuss as we go through these. But I  
5 -- I think we do need to go through these  
6 sequentially, and we'll be sensitive to the  
7 fact that there's some that we can just move  
8 along.

9 **DR. BEHLING:** In fact, you'll -- you'll see an  
10 awful lot of findings that are repetitious  
11 because the -- in fact, the first three sets  
12 were maximized -- mostly maximized, some were  
13 minimized dose reconstructions, and -- and you  
14 will find that there's a repetition of errors  
15 that -- that you see throughout these different  
16 sets. And so when we come across them you're  
17 going to probably realize that well, we've  
18 discussed that before so let's go on.

19 **MR. GRIFFON:** Yeah, okay. 21.2 actually -- I  
20 think this is one that can be fairly quickly  
21 disposed of. NIOSH agrees, but it -- again,  
22 this is an overestimating approach --

23 **MS. BEHLING:** Yes, that's fine. It's  
24 uncertainty, so we can move on.

25 **MR. GRIFFON:** And 21.3 --

1           **MS. BEHLING:** Same, it's an uncertainty issue  
2           and it is a high -- it's unnecessarily high.

3           **MR. GRIFFON:** Right. 21.4 -- and stop me,  
4           anybody, if we need a longer discussion on any  
5           of these.

6           **MS. BEHLING:** Okay. I'm not sure  
7           (unintelligible), can NIOSH explain this?

8           **MR. HINNEFELD:** Well, I can --

9           **MR. GRIFFON:** Yeah, this is a lengthy one.

10          **MR. HINNEFELD:** I think the -- the numbers  
11          aren't worth spending a lot of time on because  
12          the numbers are very small, no matter how you  
13          do it. When I went through the TBD tables I  
14          could reproduce essentially the 38 -- I  
15          actually got 37 millirem for the total dose  
16          over the (unintelligible) years because it  
17          breaks at various years, and I got one year at  
18          the highest -- he only had one pre-1970 X-ray  
19          when the dose would have been 25, and then the  
20          others -- the table calls for lower doses, but  
21          it doesn't really matter. And then I thought  
22          that the medical exposure was pretty much right  
23          on light, maybe a slight overestimate as  
24          opposed to the underestimate, but the values  
25          were so small I don't think it warrants much

1 time.

2 **MS. BEHLING:** Okay. Okay, I just --

3 **MR. GRIFFON:** I mean do you need to go back to  
4 this one, Kathy? That's -- you know --

5 **MS. BEHLING:** No, it just surprises me that we  
6 would have identified this as a finding if it  
7 was a one millirem difference. We just -- we  
8 wouldn't have done that, and so --

9 **MR. GRIFFON:** Right, I don't think so, so --

10 **MS. BEHLING:** -- and so that's why I'm  
11 questioning --

12 **MR. HINNEFELD:** No, it was -- your -- your  
13 estimate was 25 millirem a year for the entire  
14 employment period times the 1.3, and then what  
15 I said was well, the 25 millirem is only the  
16 pre-1970 value. The TBD gives lower values for  
17 later years for X-rays, so I essentially  
18 reproduced what -- what I thought the number  
19 should be and didn't quite get the 38, which is  
20 what the DR-ist (sic) had. I got to 37. So I  
21 think that's what the -- the issue was was that  
22 there's a certain cut year where the medical  
23 doses are lower.

24 **MS. BEHLING:** Okay.

25 **MR. HINNEFELD:** And then there is a discussion

1           in here about the -- the lumbar spine X-ray  
2           that the person got. The -- it looks like the  
3           -- the DR-ist just doubled one of the views,  
4           the higher exposure view. There's two views on  
5           the lumbar spine X-ray and it looks like what  
6           the DR-ist did was just double the higher  
7           exposure view rather than to put two separate  
8           lines in for the different -- for the different  
9           views.

10          **MS. BEHLING:** But I think what we wrote here in  
11          -- is saying that we thought there was 21 years  
12          of dose that may have been missing, which would  
13          have -- which would have resulted in about 700  
14          millirem, or -- yeah, 700 millirem.

15          **MR. HINNEFELD:** What I'd like you to do is look  
16          back at the site profile for Rocky Flats and  
17          the X-ray doses that are cited for years  
18          because I think -- I think what you've done --  
19          if you take 21 years of X-ray dose at 25  
20          millirem, when in fact, based on the site  
21          profile -- the equipment changed in 1970, so  
22          only the 1969 X-ray would be 25 millirem, and  
23          the later X-rays would be lower doses.

24          **MS. BEHLING:** Yeah, we have down here that you  
25          used OTIB-6 for this, and that only one chest

1 X-ray was assigned rather than for -- one for  
2 every year of employment. I believe that's  
3 what we are saying.

4 **DR. BEHLING:** You have to go back to the actual  
5 audit itself to identify --

6 **DR. MAURO:** I have the report open in front of  
7 me. It's very helpful to -- it's written up  
8 here and Kathy, will you just -- I don't know  
9 if you have the report --

10 **DR. BEHLING:** Yeah, we do, John --

11 **MS. BEHLING:** Yes, we do.

12 **DR. BEHLING:** -- and the matrix is not very  
13 clear in identifying the issues.

14 **MS. BEHLING:** Right, it's too -- it's too  
15 abbreviated.

16 **DR. BEHLING:** It's too abridged.

17 **MR. GRIFFON:** Well --

18 **MS. BEHLING:** But I think that our point was  
19 that you only assigned chest X-ray dose for one  
20 year where --

21 **DR. BEHLING:** It was 21 years.

22 **MS. BEHLING:** -- there was 21-year employment  
23 and we -- I guess we came to the conclusion  
24 that he probably -- or this person probably had  
25 an annual chest X-ray. That's what I said, I

1           couldn't imagine we would have written  
2           something up for one millirem.

3           **DR. BEHLING:** No.

4           **MR. GRIFFON:** Right, right, so there's still a  
5           discrepancy here. I mean I think --

6           **MS. BEHLING:** Yes.

7           **MR. GRIFFON:** -- maybe -- I -- I think this can  
8           be done off-line, though. Right? That's --

9           **MS. BEHLING:** Yes.

10          **DR. BEHLING:** Yes.

11          **MR. GRIFFON:** You can go back and look at your  
12          numbers and maybe talk to Stu and --

13          **MS. BEHLING:** Okay, we'll look at that again.

14          **MR. GRIFFON:** -- try to figure this out or  
15          resolve this calculation discrepancy.

16          **MS. MUNN:** Might have depended on his job  
17          description. He might have only had --

18          **MR. GIBSON:** (Unintelligible) this is Mike. My  
19          phone died. I had to get another one and get  
20          back on line. Where are we at here?

21          **MR. GRIFFON:** We're in the second set of cases,  
22          Mike, on finding number 21.5.

23          **MR. GIBSON:** Okay.

24          **MS. BEHLING:** Yeah, matrix for cases 21 through  
25          38.

1           **MR. GRIFFON:** Second pa-- third page into it,  
2           whatever, something like that -- 21.5 in the  
3           matrix.

4           **MR. GIBSON:** Okay, great. Thanks.

5           **MR. HINNEFELD:** Kathy, the medical X-ray  
6           exposures are lines 212 through 233 in the dose  
7           reconstruction.

8           **MR. GRIFFON:** All right. Thanks. Yeah, we'll  
9           -- let's see, so -- are we on 21.5? We can --  
10          I mean you don't have to redo those  
11          calculations while we're on the line. I think  
12          it'd be better served to work our way through  
13          the matrix and you guys can work that out.  
14          Right?

15          **MS. BEHLING:** Okay, yeah, we'll look at that.

16          **MR. GRIFFON:** Okay.

17          **MS. BEHLING:** I see they're all zeroes below  
18          that, so maybe that's where it's changed.

19          **MR. HINNEFELD:** They round -- less than one  
20          millirem.

21          **MS. BEHLING:** Is that what the -- okay. I'll  
22          look at that.

23          **MR. GRIFFON:** And if you're in agreement,  
24          that's fine, we can get -- you know.

25          **MS. BEHLING:** I just -- I want to look at it



1           **MS. BEHLING:** Well, Stu right now is trying to  
2 get us some information. He's trying to dig  
3 out some of the pages.

4           **MR. HINNEFELD:** Our response refers to the pag-  
5 - to the tables in the site profile, and  
6 there's a text -- I thought I had it a while  
7 ago, I don't seem to be able to get my hands on  
8 it real quick.

9           **MR. GRIFFON:** I'll tell you one thing that  
10 jumped out at me, just to stall so Stu has some  
11 time, is the highest annual value in the table  
12 is for 1989. I don't know, that struck me as  
13 interesting.

14           **MS. BEHLING:** Yeah, it is interesting.

15           **MS. MUNN:** There was a lot going on there in  
16 '98 (sic).

17           **MR. GRIFFON:** Yeah, there was. There was.

18           **MS. MUNN:** Ask the Feds.

19           **MS. BEHLING:** I guess to keep things moving  
20 along, we could also do this off-line when Stu  
21 --

22           **MR. GRIFFON:** Yeah, okay.

23           **MR. HINNEFELD:** I apologize, I thought I had  
24 copied some pages.

25           **MS. BEHLING:** That's okay.

1           **MR. GRIFFON:** That's okay.

2           **MS. BEHLING:** Usually when on-site ambient is  
3 not significant doses here, but --

4           **MR. GRIFFON:** Right.

5           **MS. BEHLING:** -- this guidance was very  
6 confusing. We'll deal with that one separate.

7           **MR. GRIFFON:** Okay, let's move to 21.6 then.

8           **MS. BEHLING:** Okay, now here's where I want to  
9 pause for just a second because I believe that  
10 this -- this finding is one that we've talked  
11 about over and over again, and everybody's very  
12 well aware of this excessive claimant-favorable  
13 approach to things. And I think that there is  
14 -- based on the response from NIOSH on this --  
15 no, no, right here. NIOSH's response is they  
16 agree, however it's a high dose and this is a  
17 case that's less than 50 percent. Here is  
18 where -- where I might pause to say I think  
19 that there's a difference in philosophy between  
20 what NIOSH is doing and what SC&A would maybe  
21 recommend that is being done with these, quote,  
22 claimant-favorable cases. And I think it's  
23 best to explain it in terms of our -- and I  
24 think the regulations state claimant  
25 favorability is in cases of unknowns. And so

1           if you don't know if the person was monitored  
2           and if you have to go back and calculate missed  
3           dose and you don't know whether he was --  
4           received internal doses, you do want to  
5           calculate a hypothetical internal. However,  
6           you do know what the cancer is, and there's --  
7           you haven't lost any efficiency by pulling the  
8           correct cancer model from your hypothetical  
9           internal dose and using 12 radionuclides as  
10          opposed to 28 radionuclides when  
11          (unintelligible) doesn't have a reactor,  
12          doesn't have all your fission products. So I  
13          don't know that I agree with NIOSH's response  
14          that we can just -- it's okay because this was  
15          less than 50 percent and it was excessively  
16          high. I feel, and you hear it in the public  
17          comment area, that --

18          **MS. MUNN:** If it's wrong, it's wrong.

19          **MS. BEHLING:** Yeah, and it's not necessarily  
20          scientifically sound to do this. So I believe  
21          this is an approach that has been adopted by  
22          NIOSH and it's a way of thinking today, and I'm  
23          not sure that we want the dose reconstructors  
24          to continue to think in this way.

25          **MR. HINNEFELD:** It was -- it was a way of

1 thinking up until a few months ago.

2 **MS. BEHLING:** Okay.

3 **DR. BEHLING:** I mean I think it would be very,  
4 very difficult to defend when a person says  
5 they modeled it, even though it was claimant  
6 favorable, for a cancer that -- I didn't have  
7 colon cancer and it -- and it lets somebody  
8 who's on the sidelines say well, boy, they're  
9 not even looking to see which cancer this guy  
10 had.

11 **MR. HINNEFELD:** I think -- well, this is  
12 actually the -- we selec-- (unintelligible)  
13 selected 28 radionuclides rather than 12 in  
14 this specific case.

15 **MS. BEHLING:** That's right.

16 **MR. HINNEFELD:** But this was an attitude up  
17 until a few months ago, and -- and it's not the  
18 attitude now because of the recurring issue of  
19 returns coming back from the Department of  
20 Labor with new information and now we're in the  
21 process of explaining why the dose  
22 reconstruction's so much lower. So I'd say the  
23 days of sort of being -- shall we say cavalier  
24 about overestimates in non-compensable cases is  
25 pretty much gone now.

1           **MS. BEHLING:** It was just based on NIOSH's  
2 response.

3           **MR. HINNEFELD:** I originally wrote that a few  
4 months ago.

5           **MR. GRIFFON:** So -- so Stu, what -- what --  
6 what concrete changes have been made? You said  
7 it's -- there's a change in attitude now? Are  
8 there concrete procedural changes that have  
9 been made as a result of this or --

10          **MR. HINNEFELD:** I don't know that I'd say  
11 they're procedural changes, but I'd say it's a  
12 fact that we don't typically see just these  
13 artificial inflated dose reconstructions just  
14 for the sake of having a high dose. I think  
15 it's -- more attention is paid to choosing the  
16 right model now. Am I wrong? You guys read  
17 more than I do.

18          **MS. BEHLING:** Okay --

19          **MR. ALLEN:** Generally.

20          **MR. HINNEFELD:** Okay.

21          **MS. BEHLING:** Now the other thing -- and I know  
22 in this particular case I may have jumped the  
23 gun a little bit because, although I -- I guess  
24 I phrased this finding incorrectly, they used  
25 the hypothetical -- the 12 radionuclide

1           hypothetical intake model, and I guess they did  
2           probably select the right cancer here, I'm not  
3           sure. But in the cases where they do select  
4           the colon as the highest non-metabolic cancer,  
5           I believe that that's stated in TIB-2 that  
6           that's recommended. I haven't read through  
7           TIB-2 in a while, but I do think that that's  
8           recommended in one of the procedures. No?  
9           You're shaking your head.

10          **MR. ALLEN:** Not TIB-2, maybe a procedure,  
11          'cause I remember when we first did that they  
12          calculated the dose for all 28 nuclides to the  
13          colon, and when we first started doing some  
14          claims by that and we started seeing the same  
15          dose on each one, saying this is not right.

16          **MR. GRIFFON:** Right.

17          **MR. ALLEN:** Then ORAU explained that they had  
18          one set of numbers calculated, that they were  
19          going to fire through as much as they could  
20          with that set of numbers, and we reluctantly  
21          agreed to it, essentially.

22          **MS. BEHLING:** Okay. I just would like -- you  
23          know, need to be sure that that's not stated  
24          anywhere in the procedures for the dose  
25          reconstructors to -- to use the col-- I thought

1 I read that --

2 **MR. ALLEN:** Yeah, I can't --

3 **MS. BEHLING:** -- somewhere.

4 **MR. ALLEN:** -- can't guarantee on the  
5 procedure, but the TIB --

6 **DR. BEHLING:** Well, I -- I think that we -- it  
7 may be in the procedure that it says --

8 **MS. BEHLING:** Yes.

9 **DR. BEHLING:** -- the colon ends up being the  
10 highest non-metabolic organ, so if you have  
11 prostate cancer we'll go with the colon. But  
12 it just looks awfully stupid for us to use a  
13 cancer -- a site that doesn't even apply to the  
14 individual claim, even though it gives -- it  
15 gives you a higher dose.

16 **MS. BEHLING:** And I just want to be sure the  
17 dose reconstructors aren't being -- it's not  
18 being suggested to them that they --

19 **MR. GRIFFON:** Right.

20 **MR. ALLEN:** I think the NIOSH response there  
21 applies to the individual claim. We wouldn't  
22 go back and rework that to lower the dose since  
23 it was already a denial --

24 **MR. GRIFFON:** Right.

25 **MR. ALLEN:** -- but as far as the programmatic

1 issue goes, you -- we're trying to get better.

2 **DR. WADE:** We all remember the lady who stood  
3 up at the last Board meeting in public comment  
4 and talked about the pain of getting a letter  
5 where the wrong cancer was identified. And for  
6 the record, that wasn't a NIOSH letter she  
7 received, but I think we all need to take care.

8 **MR. GRIFFON:** Right, right. Okay, 22.1 I think  
9 we're on.

10 **DR. BEHLING:** Yeah, this is one that has  
11 cropped up over and over again. I think we  
12 have beaten up Stu on this one on more than one  
13 occasion regarding TIB-8 and 10 that are -- and  
14 here's a classic case of a procedure that  
15 consistently, among every one of the dose  
16 reconstructors, has been misinterpreted and --  
17 and fortunately -- or unfortunately, I guess  
18 fortunately for the claimant, it results in  
19 doses that are usually higher than -- than what  
20 the true interpretation would yield and -- and  
21 I think Stu's fully aware of it. I don't know  
22 if at this point TIB-8 and 10 have been revised  
23 to clarify --

24 **MR. HINNEFELD:** Coming soon, yeah. We hope to  
25 -- we expect to see them this month, but we

1           have not seen them yet.

2           **DR. BEHLING:** And -- and in short, if you  
3           recall, Mark, the issue is one of using LOD  
4           times N multiply that yet by two, then divide  
5           by two and ultimately end up with a GSD, and so  
6           an error one cancels error two, left with error  
7           three, which is GSD, which doesn't belong when  
8           you have a 95th percentile value. It's three  
9           errors, two cancel out, one error's left which  
10          is the GSD for a maximized dose. That's --  
11          that's a consistent error that has been  
12          introduced over and over again.

13          **MR. GRIFFON:** And this was over and over in the  
14          first 20, yeah, we saw several times.

15          **MS. BEHLING:** Yes.

16          **MR. GRIFFON:** Yeah.

17          **DR. BEHLING:** And we're still seeing it.

18          **MS. BEHLING:** And actually what I've decided to  
19          do, unless someone wants to make a  
20          recommendation different from this, for this  
21          fourth set of cases, because I didn't see a  
22          revision to TIB-8 and 10 yet, I felt that it  
23          was necessary for us to include it again as a  
24          finding. And when we finally see a revision  
25          that we're satisfied with, I think at that

1 point we will make something like an  
2 observation and not include it on this -- this  
3 matrix -- this matrix list anymore and --  
4 unless it has some significant impact on the  
5 case.

6 **MR. GRIFFON:** On the case, right, I agree.

7 **MS. MUNN:** But for the time being, that's  
8 right, this is what we're looking for. That's  
9 exactly it.

10 **DR. BEHLING:** But I think once there is a  
11 resolution such as a revision to a TIB that  
12 clarifies the issue, even though we may be  
13 auditing a case that was done two years ago, we  
14 will cease to make it a finding because the  
15 resolution has already occurred.

16 **MS. MUNN:** Yeah.

17 **MS. BEHLING:** Exactly.

18 **MR. GRIFFON:** Okay, 22.2?

19 **MS. BEHLING:** Gives you a motivation to make  
20 those changes in the procedure.

21 **MS. MUNN:** Yes, it does.

22 **DR. BEHLING:** We're at 22.2, Mark?

23 **MR. GRIFFON:** Yeah.

24 **MR. HINNEFELD:** This is more -- this is another  
25 of the same --

1           **DR. BEHLING:** Yeah --

2           **MS. BEHLING:** Yeah, this is the same.

3           **DR. BEHLING:** -- this is a case where --

4           **MR. HINNEFELD:** -- why use 12 when it says  
5           four.

6           **DR. BEHLING:** -- the records indicate the  
7           person was monitored quarterly, and there's  
8           firm evidence to that, and so, again, there was  
9           an excessive assignment of missed dose assuming  
10          a 12-cycle per year exchange and when the  
11          records clearly say there's only -- he was only  
12          monitored four times, we're assigning, you  
13          know, three times as many -- or an excess of  
14          three times more than what he should. And  
15          again, I would say stick with the facts when  
16          you have it. If you're not sure, give the  
17          benefit of the doubt, but here we have the  
18          facts.

19          **MS. MUNN:** Is this the continuing problem?

20          **MR. GRIFFON:** It's the same as the 21.6, pretty  
21          much as a follow-up.

22          **MS. BEHLING:** Well -- just one second, Mark.  
23          Say what?

24          **MR. GRIFFON:** I'm saying the response or the  
25          resolution to that is similar to 21.6, that --

1           you know, there's agreement, but no change for  
2           that case is needed, but --

3           **MS. BEHLING:** Yes.

4           **MR. GRIFFON:** -- programmatically --

5           **DR. BEHLING:** Well, that -- that may be again a  
6           one-time deal. I'm not saying that every dose  
7           reconstructor opts to give excess number of  
8           cycles when in fact the data suggests  
9           otherwise. Again, this could -- this is  
10          perhaps a flaw that is linked to one dose  
11          reconstructor and as a result there may not be  
12          a resolution to that other than to perhaps  
13          maybe issue a memo from NIOSH that says please  
14          don't engage in overly-excessive assignment of  
15          doses when there's no need for it --

16          **MR. GRIFFON:** Well, and I think that --

17          **DR. BEHLING:** -- or the data suggests  
18          otherwise.

19          **MS. BEHLING:** Exactly.

20          **MR. GRIFFON:** I think that's the programmatic  
21          response that Stu just alluded to is that  
22          they're not going to -- as a policy matter,  
23          they're sort of -- going to kind of shy away  
24          from that --

25          **MS. BEHLING:** Yes.

1           **MR. HINNEFELD:** Yes.

2           **MR. GRIFFON:** -- both internal and external, I  
3 would assume, you know.

4           **MR. HINNEFELD:** Send them a directive at least  
5 -- average at least one a day, do this, honest  
6 to goodness.

7           **DR. BEHLING:** Does it come return mail?

8           **MR. HINNEFELD:** (Unintelligible) no, I send  
9 them e-mail so they can't -- can't come back  
10 address unknown.

11          **MS. BEHLING:** This is -- goes back to that  
12 philosophy issue.

13          **MS. MUNN:** Well, yeah, and I continue to be  
14 very concerned that -- that the Board perhaps  
15 unrealistically over-emphasized that -- the  
16 claimant-favorability aspect of every decision  
17 that's being made -- and that's not a smart  
18 thing to do and we -- if -- if we, as -- if the  
19 Board needs to take some action in this regard,  
20 please tell us that it would be wise for us to  
21 be more specific with respect to our claimant  
22 favorable comments that started this whole  
23 business.

24          **DR. WADE:** I don't -- I don't --

25          **MR. GRIFFON:** Well, I don't -- I don't think it

1 started the whole business --

2 **DR. WADE:** No, I don't think so, either.

3 **MR. GRIFFON:** -- Wanda. I'd take exception to  
4 that, 'cause I think the efficiency mode  
5 started this -- this business. I --

6 **MS. MUNN:** Well, yeah, but the effi--

7 **MR. GRIFFON:** -- I think you give us too credit  
8 -- too much credit. I'm not sure that our com-  
9 - our recommendations are carrying that much  
10 weight.

11 **MS. MUNN:** But the efficiency mode more --  
12 doesn't just duplicate, it more than -- more  
13 than amplifies our original position about  
14 being claimant-friendly. And that's where --

15 **DR. WADE:** I think this was really a pressure  
16 to -- to -- to move things through the system  
17 and a little bit of sloppiness developed and it  
18 was tolerated because it really didn't make a  
19 difference. But I think we're realizing that  
20 when you live in a fishbowl like this, those  
21 things can matter --

22 **MS. MUNN:** They do matter.

23 **DR. WADE:** -- so it's a matter of just getting  
24 it right.

25 **MS. MUNN:** Yeah.

1           **MR. GRIFFON:** Okay, 22.3?

2           **DR. BEHLING:** Again you have to look at the  
3 actual report. I think TIB-8 was used for that  
4 and -- let me see here --

5           **MS. BEHLING:** TIB-8 spe--

6           **DR. BEHLING:** -- yeah, and TIB-8 clearly states  
7 this is not to be used for skin doses or those  
8 doses that may require a shallow dose  
9 reconstruction. That includes the testes and  
10 the breast and so in -- in essence the  
11 procedure was incorrect for -- for deriving a  
12 skin dose. They should have really used Proc.  
13 6 and one of those appendices that are defined  
14 under Proc. 6 for deriving skin dose. I do  
15 think --

16          **MR. GRIFFON:** (Unintelligible) do you agree  
17 with that?

18          **MR. HINNEFELD:** Yeah, I don't -- I don't  
19 dispute that.

20          **MR. GRIFFON:** I -- I mean I think this a -- I --  
21 - and -- and Hans, do you agree with the NIOSH  
22 respon-- inasmuch as it doesn't affect -- that  
23 -- that still the approach --

24          **DR. BEHLING:** Well, again, you know, we --

25          **MR. GRIFFON:** -- sufficiently maximized the

1           dose for this case?

2           **DR. BEHLING:** Yeah, we have been dealing  
3           principally with maximized doses for the first  
4           three sets, and even in the fourth set. So I  
5           suppose in the end if the ultimate excuse is  
6           that well, is this a maximized and it's non-  
7           compensable, so all these errors really don't  
8           mean anything, there's -- there's an element of  
9           truth in that. Clearly we're not going to turn  
10          anything over on the basis of these things, but  
11          it's a matter of technical accuracy and, again,  
12          the issue of the optics. Which procedure did  
13          you use that you should have used but failed to  
14          use in arriving at these doses, whether or not  
15          they contribute to a significant difference  
16          that would affect the compensability of the  
17          claim. Well, that's really a second level of  
18          concern and -- and we would -- and during our  
19          audit we were not looking at that other than to  
20          identify the findings under the checklist as  
21          having a low. And as you will see in just  
22          about every one of these the checklist  
23          identifies this error as a low impact. So  
24          nevertheless, it's a technical issue that we  
25          want to bring to everyone's attention. We're

1 not saying it's going to change anything.

2 **MR. GRIFFON:** Oh, yeah, no, I'm not -- I'm not  
3 taking away the finding. I'm just saying for  
4 this particular case the dose would have not  
5 been a lot different or a lot greater or would  
6 it have been or did you assess that?

7 **DR. BEHLING:** Well, the skin dose I guess under  
8 Proc. 6 would have been higher.

9 **MR. GRIFFON:** High-- high-- higher enough to  
10 make a significant difference or -- in your  
11 opinion, or --

12 **DR. BEHLING:** Well, again, that's subjective  
13 when you say significant. Significant, would  
14 it have changed the compensability? No. Would  
15 it be a significant fractional increase in  
16 dose? Probably. But again, it's in context  
17 with all the other doses that are assigned  
18 under maximized, chances are it's not all that  
19 much of a dose.

20 **MS. BEHLING:** It's not that significant.

21 **DR. BEHLING:** In fact, on that issue -- and I  
22 talked to Dave Allen -- there's a concern on my  
23 part that people still haven't recognized that  
24 when you deal with a skin dose and especially a  
25 skin cancer, forget about the HP-10 dose. Look

1 at the shallow dose. That's your dose of  
2 reference, and don't worry about whether it's  
3 beta -- 200 -- greater than 250 or 30 to 250,  
4 none of these matter. It's your skin dose, and  
5 that should be the dose that should be entered  
6 as your dose for determining whether or not the  
7 -- the cancer is -- is compensable, and -- and  
8 too many of the people are still not looking at  
9 the footnote that is in Appendix B of  
10 Implementation Guide 1 that clearly says if  
11 you're talking about a skin cancer, forget  
12 about the HP-10 dose because if the HP-10 dose  
13 is cited, also -- there is also the likelihood  
14 that the shallow dose is also cited, and use  
15 that and forget everything else.

16 **MR. GRIFFON:** Right.

17 **MS. MUNN:** Can we put the footnote in bold?  
18 Move it up from footnote status, put it  
19 somewhere else?

20 **MR. GRIFFON:** Okay, 22-- Hans, just to let you  
21 know, part of the reason I asked you those  
22 questions was I -- I think I'd define this more  
23 as a procedural -- I'm categorizing here, too,  
24 in my little ma-- in the matrix, and I think I  
25 see that more as a procedural finding in this

1 case.

2 **DR. BEHLING:** Yeah, it is.

3 **MR. GRIFFON:** And so that's why I'm -- I'm  
4 going down this -- aiming these questions for  
5 you. I totally agree with your assessment, but  
6 I -- anyway, 22.4?

7 **MS. BEHLING:** Here again they just used --  
8 NIOSH used I guess 40 millirem for LOD and  
9 we're not sure -- it was not referenced, and  
10 actually I believe that Attachment F of Proc. 6  
11 was not even issued at this time, which would  
12 have recommended 50 millirem, so it's -- it's a  
13 minor difference, but we didn't know where they  
14 came up with that LOD value.

15 **DR. BEHLING:** It's a generic value that's  
16 commonly used in the early years during film  
17 dosimetry, but I think under Proc. 6 or 17 I  
18 think for the beta component 50 is a common  
19 used value for LOD for shallow or beta  
20 component. So again it's a marginal  
21 difference.

22 **MR. GRIFFON:** Okay, but -- and -- and this --  
23 when it says see response for finding 22.3-D.1,  
24 that should have been D.1.2? Is that correct?  
25 I don't see any D.1.1.

1           **DR. BEHLING:** No, I don't either.

2           **MS. BEHLING:** Actually I -- I marked that --  
3           I'm not sure if I incorrectly identified those  
4           finding numbers in the matrix, because in our  
5           report finding 22.3 is D.1.1 and 22.4 is D.2.1.

6           **MR. GRIFFON:** Okay, so we -- I can work with  
7           you, Kathy --

8           **MS. BEHLING:** Yes.

9           **MR. GRIFFON:** -- on these edit --

10          **MS. BEHLING:** Yes.

11          **MR. GRIFFON:** -- things, but we should just  
12          make that consistent.

13          **MS. BEHLING:** Yes, I'm sorry.

14          **MR. GRIFFON:** All right.

15          **MS. MUNN:** That -- that same nomenclature  
16          appears in the preceding finding.

17          **MR. GRIFFON:** Right.

18          **MS. BEHLING:** Yeah, I --

19          **MR. GRIFFON:** Right. 22.5?

20          **MS. BEHLING:** Okay, this (unintelligible)  
21          internal.

22          **DR. BEHLING:** We've probably gone through this  
23          one again already, the selection of the cancer  
24          that yields a dose higher than necessary.

25          **MS. BEHLING:** Uh-huh.

1           **MR. GRIFFON:** In this case you have case  
2 ranking unresolved, though. Why is that?  
3 That's different than your other ones, Hans.  
4           **DR. BEHLING:** Let's see here, where are we?  
5           (Unintelligible)  
6           **MS. BEHLING:** I don't know.  
7           **MS. MUNN:** You gave it a UR.  
8           **MS. BEHLING:** Oh, unresolved?  
9           **DR. BEHLING:** (Unintelligible)  
10          **MR. GRIFFON:** That stuck out to me as something  
11          --  
12          **MS. BEHLING:** Yes, (unintelligible) --  
13          **MR. GRIFFON:** -- was going on --  
14          **MS. BEHLING:** -- was that.  
15          **MR. GRIFFON:** -- differently there.  
16          **MS. BEHLING:** I don't know why we did that.  
17          That's not correct.  
18          **MR. GRIFFON:** We can check that out, but -- but  
19          otherwise the response is similar to the  
20          previous one. Right?  
21          **MS. BEHLING:** Yes. Uh-huh, yes.  
22          **MR. GRIFFON:** All right. And the same -- is  
23          the same true with 22.6?  
24          **MS. BEHLING:** Yes. There again -- let me look  
25          -- there again they selected colon as the

1 cancer as opposed to the actual cancer, which  
2 is -- breast?

3 **DR. BEHLING:** (Unintelligible)

4 **MS. BEHLING:** Yeah, as opposed to the breast,  
5 and here again if you would have used the  
6 breast for running the hypothetical internal,  
7 your dose would have been significantly lower.

8 **MR. GRIFFON:** Is that -- that finding -- if you  
9 look up above, 21.6 versus -- versus what you  
10 have here, 22.6 --

11 **MS. BEHLING:** Uh-huh.

12 **MR. GRIFFON:** -- they're -- they're written  
13 differently. Are they the same fin-- type of  
14 finding?

15 **MS. BEHLING:** Yes. When we were on 21.6 --

16 **MR. GRIFFON:** 'Cause cancer type for modeling -  
17 -

18 **DR. BEHLING:** It -- no (unintelligible) --

19 **MS. BEHLING:** No, it --

20 **MR. GRIFFON:** -- says something differently to  
21 me --

22 **DR. BEHLING:** Yes, it --

23 **MR. GRIFFON:** -- in summary form than -- that -  
24 -

25 **MS. BEHLING:** Yes.

1           **DR. BEHLING:** Mark, it should have said  
2 reviewer disagrees with NIOSH's selection of  
3 the hypothetical dose model for modeling the  
4 hypothetical intake. In other words, the  
5 difference between the 12 and 28.

6           **MS. BEHLING:** You need to make that change to  
7 the matrix.

8           **MR. GRIFFON:** Okay, I wi-- yeah.

9           **MS. BEHLING:** Okay.

10          **MR. GRIFFON:** I'm just trying to get my notes  
11 up -- up to speed here. Okay, what time is it?  
12 4:10, we've got a little while more. 22.7.

13          **MS. BEHLING:** Okay.

14          **MS. MUNN:** We're all in the same boat.

15          **MS. BEHLING:** We were talking about this  
16 earlier, and this speaks to the CATI -- there's  
17 an unresolved discrepancy between the CATI  
18 report and DOE records. Apparently in this  
19 case I believe the claimant indicated that they  
20 participated in the bioassay monitoring  
21 program, but the records didn't show that and  
22 so we identified this as a discrepancy.

23          **DR. BEHLING:** Unresolved.

24          **MS. BEHLING:** Unresolved.

25          **MR. GRIFFON:** And -- and NIOSH's response refer

1 to bullets one, two and three, and I don't have  
2 the full report opened.

3 **MR. HINNEFELD:** Bullet one was about the  
4 claimant claimed that he had participated in in  
5 vivo program, but we didn't get any DOE  
6 records. Bullet three was the claimant stated  
7 that worker had whole body counts annually  
8 through '92, but we only got records for four  
9 of them conducted from 1980 to '84. And then  
10 the second bullet was the claimant also stated  
11 that a medical X-ray was taken in all but the  
12 last year of employment. However, the DOE  
13 records provide no evidence of any chest X-ray  
14 examinations.

15 The second bullet, we -- the dose  
16 reconstruction assigns an annual X-ray anyway,  
17 so despite the fact the record didn't show --  
18 the DOE record didn't show any medical X-rays,  
19 that -- we didn't feel like that mattered. We  
20 assigned an annual X-ray. For the first and  
21 third bullets, this has to do with the bioassay  
22 record of the individual, and we feel that the  
23 hypothetical intake is higher than this person  
24 would have received. There's more information  
25 available on this specific claimant in terms

1 of, you know, work and when they worked and the  
2 type of job they did that would lead us to  
3 believe that they truly were unexposed or  
4 moderately exposed and that the hypothetical  
5 intake is the appropriate one to use. And so  
6 the absence of that record we didn't think was  
7 -- prevented the dose reconstruction from going  
8 forward.

9 **MR. GRIFFON:** I guess -- I guess the follow-up  
10 from this morning would be was this adequately  
11 communicated in the DR report. And -- and I  
12 mean I know you're advising that now, but you  
13 know, I guess that would be, you know, one  
14 question I would have is if it was clearly  
15 explained to the claimant that this is what we  
16 did and even though you may have participated,  
17 we believe this would be bounding, you know.

18 **MR. HINNEFELD:** I don't know if it was said. I  
19 would be a little surprised if it was that  
20 specific.

21 **MR. GRIFFON:** Probably not, another early on.  
22 Right.

23 **MR. HINNEFELD:** At the time it was done, I  
24 would be really surprised.

25 **MR. GRIFFON:** So at this point I don't think

1           this is any case-specific ramification, but I  
2           would I guess in a -- one resolution I see from  
3           the programmatic standpoint is that NIOSH, you  
4           know, is modifying the DR reports and is  
5           undertaking modifications on the CATI  
6           procedures. Right? I don't know if they're  
7           specifically addressing this comment, but...

8           **MS. BEHLING:** Stu, (unintelligible).

9           **MR. HINNEFELD:** Oh, you want me to say  
10          something? All right, let me say that the CATI  
11          -- the CATI procedure modification would not  
12          specifically address this comment. I would  
13          think the dose reconstruction modification, the  
14          new model dose reconstruction would address  
15          this to some fashion, would at least put in  
16          front of the claimant at closeout interview  
17          time this is the record we had. And whether or  
18          not the interviewer will be prepared to say  
19          "and it differs from what you said in the  
20          CATI", I don't know if that -- I don't know how  
21          far that can go. It might -- that might be  
22          possible. I don't know. So certainly we -- we  
23          intend to have in the dose reconstruction this  
24          is the exposure record we had and with the --  
25          with the expectation that the claimant would

1 say that's not right, I was monitored more than  
2 that, or something like that.

3 **MR. GRIFFON:** Right.

4 **MR. HINNEFELD:** Also the CATI sometimes is a  
5 little difficult to interpret in terms of the  
6 information that's written on it. I mean it  
7 may say in vivo annually, and the claimant may  
8 not recognize that -- he -- you know, that may  
9 not -- he may not have meant that to mean  
10 annually for my entire employment. It may have  
11 been annually for the times when I was  
12 monitored, or annually for a while, things like  
13 that. I personally don't remember my bioassay  
14 record from Fernald. I cannot tell you what  
15 years I was bioassayed monthly, what years I  
16 was bioassayed quarterly and what years I was  
17 in vivo'd and what years I was not in vivo'd.

18 **MS. MUNN:** Huh-uh.

19 **MR. GRIFFON:** Right, 'cause -- and it varied  
20 over time --

21 **MR. HINNEFELD:** Sure.

22 **MR. GRIFFON:** -- and what jobs for people,  
23 sure, sure.

24 **MS. MUNN:** Nobody can remember that.

25 **MR. GRIFFON:** Okay, so I'm -- I'm grasping for

1 a response on this, but --

2 **DR. BEHLING:** Well, from --

3 **MR. GRIFFON:** -- I think one thing is that the  
4 DR report -- the boilerplate language is being  
5 -- changes are being considered and are  
6 underway by NIOSH to improve the communication  
7 of how, you know, these discrepancies are dealt  
8 with.

9 **MS. BEHLING:** Yes.

10 **MR. GRIFFON:** And I think -- I guess that's  
11 about it. I don't know -- is it -- it seems to  
12 be the consensus that this would not have  
13 impacted this case. Again, I -- you know, most  
14 of these cases that's true for, but I figure I  
15 should ask.

16 **DR. BEHLING:** No, it's clear that the assigned  
17 dose of 12.4 rem based on the hypothetical  
18 intake and using the colon as the surrogate for  
19 the breast was obviously going to be a  
20 claimant-favorable assignment of dose. It's  
21 just still a discrepancy here. SC&A does not  
22 question that the doses that he would have --  
23 that she would have received had a more  
24 detailed and complete internal bioassay dataset  
25 been supplied would have exceeded anything she

1           would have gotten. I think it's clear that  
2           which would -- doses were assigned are bounding  
3           values.

4           **MS. BEHLING:** In fact, I --

5           **MR. GRIFFON:** For this -- for this case was the  
6           -- the job title information consistent with  
7           someone who should not have been monitored that  
8           often or -- or do you recall or -- I -- I --  
9           again, I don't have the specifics in front of  
10          me.

11          **MS. BEHLING:** Let's see --

12          **MR. GRIFFON:** The job title or --

13          **DR. BEHLING:** She was a machine cleaner, that's  
14          what it says here.

15          **MR. GRIFFON:** Oh, okay.

16          **MS. BEHLING:** Oh, okay, yeah.

17          **DR. BEHLING:** Yeah, and I guess those people  
18          were subjected to a certain amount of potential  
19          contamination during the process of cleaning  
20          machinery.

21          **MS. MUNN:** Well, it depends on what machinery  
22          they were cleaning.

23          **MR. GRIFFON:** Yeah, it depends on the  
24          machinery, but machine cleaners in certain  
25          areas would have been pretty --

1           **MS. MUNN:** Yeah.

2           **MR. GRIFFON:** -- potentially exposed, yeah.

3           **MS. BEHLING:** Yeah, but I think that we go on  
4 to elaborate in finding 22.8 the fact that,  
5 although there is this inconsistency, we do  
6 recognize that NIOSH did assign the 28  
7 radionuclides and actually we state that that  
8 may have been the reason that they selected to  
9 use the 28 radionuclides and use the colon as  
10 the surrogate organ for the breast and -- in  
11 order to potentially account for any records  
12 that were missing. We go on to elaborate on  
13 that in the next finding.

14          **MR. GRIFFON:** And -- and -- I mean the other  
15 reason I'm pausing on this one is 'cause on  
16 both of these, 22.7 and 8, you have a case  
17 ranking unresolved, so again I'm won-- you  
18 know, is there...

19          **MS. BEHLING:** I guess at this point we -- based  
20 on looking at this case a little closer, we  
21 could make those low just because the  
22 hypothetical internal is used for the  
23 (unintelligible) --

24          **DR. BEHLING:** Well, certainly it encompass  
25 anything that --

1           **MS. BEHLING:** Yes.

2           **DR. BEHLING:** -- might have been missed.

3           **MS. BEHLING:** Yes.

4           **DR. BEHLING:** If there -- if it turns out to be  
5 a case of missing records.

6           **MS. BEHLING:** Yeah. The reason it was  
7 categorized initially as under review is in  
8 order to potentially --

9           **MR. GRIFFON:** Oh, under review, not unresolved,  
10 I'm sorry.

11          **MS. BEHLING:** Yeah, under review.

12          **MR. GRIFFON:** Okay.

13          **MS. BEHLING:** Is in order to encourage NIOSH to  
14 look to see if they could find any bioassay  
15 data.

16          **DR. BEHLING:** I mean to -- Mark, to answer a  
17 question earlier you had, you know, I'm looking  
18 at -- again at the summary table up front in  
19 our dose audit, and this person had a total of  
20 26 millirem of assigned -- of recorded photon  
21 dose, and that's usually an indication of a low  
22 exposure environment, and so she may have been  
23 a machine cleaner, chances are these kinds of  
24 exposures are -- are almost background or  
25 within the error band of a TLD or film badge.

1           So again, my gut feeling is that whatever she  
2           was assigned is more than going to compensate  
3           any missed exposure that involved missing  
4           records.

5           **MR. GRIFFON:** Yeah, that -- that certainly  
6           reinforces the determination, sure.

7           **DR. WADE:** Well, I think that the strength and  
8           the importance of this finding generically is  
9           that -- is the discrepancy between the CATI  
10          report and the DOE records. The question is  
11          was that discrepancy recognized and dealt with,  
12          and I think you're saying yes in this case, but  
13          it could be in another finding it wasn't.

14          **MS. BEHLING:** It wasn't.

15          **DR. BEHLING:** I think it would be helpful if --  
16          just if there was a recognition in the dose  
17          reconstruction report that emphatically states  
18          yes, it's possible that we're missing records,  
19          but look, we're giving you 12.3 rem of internal  
20          exposure using a model that is more than likely  
21          to overestimate anything by an order of  
22          magnitude, and having stated that, you sort of  
23          walk away from this missing data -- potentially  
24          missing data, without feeling that you're  
25          potentially hurting the claimant in -- in not

1           considering it.

2           **MR. GRIFFON:** Right, right.

3           **MS. MUNN:** As long as they understand that any  
4           shortcoming that they perceive their employers  
5           as having foisted upon them was taken into  
6           consideration and more than adequately  
7           compensated for.

8           **DR. WADE:** But what we don't know at this  
9           point, Stu, I guess is whether or not the  
10          revised dose reconstruction report would  
11          identify the discrepancies and speak to how the  
12          discrepancies were dealt with.

13          **MR. GRIFFON:** Yeah, that's what I put as the --  
14          you know, ongoing action that NIOSH is  
15          modifying the DR report boilerplate language,  
16          you know, and we've captured that in the  
17          procedures review, too, so we'll -- we're  
18          certainly going to be looking at that.

19          **DR. WADE:** Certainly that would be a good  
20          thing. Whether or not the investment in time  
21          will be made to do that is something that we  
22          have to determine.

23          **MR. GRIFFON:** Right.

24          **MS. MUNN:** Uh-huh.

25          **MR. GRIFFON:** Right. All right. Was that the

1 time clock? All right --

2 **MR. GIBSON:** (Unintelligible) phone going bad.

3 **MR. GRIFFON:** What? Yeah, I know, I'm on my  
4 second phone, too, Mike. 23.1.

5 **MS. BEHLING:** Okay, in this case -- this is  
6 something that we've discussed with NIOSH  
7 before -- this was a prostate cancer and, let's  
8 see, OCAS Implementation Guide 1 indicates that  
9 the testes should be used as the surrogate  
10 organ and TIB-5 states the bladder. And I  
11 think TIB-5 is correct and there needs to be a  
12 change made to the Implementation Guide.

13 **MR. HINNEFELD:** Yeah, we've done that.

14 **MS. BEHLING:** You've done that.

15 **MR. HINNEFELD:** Yeah.

16 **MS. BEHLING:** Okay.

17 **MR. GRIFFON:** So IG -- IG has been modified.

18 **MR. HINNEFELD:** Yeah, there's a page change  
19 from like October or (unintelligible).

20 **MS. BEHLING:** Okay, great.

21 **MR. GRIFFON:** NIOSH agrees, IG has been  
22 modified. Okay.

23 **MS. MUNN:** I would submit, however, that this  
24 is one of those things where the technical  
25 reality may not be -- is -- is not likely to be

1 the same way the patient -- the client sees it.  
2 That -- that is -- the use of that surrogate  
3 organ would, in the patient's mind, probably  
4 more likely be testes than bladder and --

5 **MS. BEHLING:** Sure.

6 **MS. MUNN:** -- it's one of those things that  
7 perhaps requires some additional explanation.

8 **DR. BEHLING:** Well, that the difference being  
9 is the DCF which accommodates an attenuation  
10 component --

11 **MS. MUNN:** Yeah.

12 **DR. BEHLING:** -- and of course the bladder is  
13 more proximal to the prostate than for -- for  
14 external radiation --

15 **MS. MUNN:** That's not what they're going to  
16 think.

17 **DR. BEHLING:** I know.

18 **MR. GRIFFON:** Yeah, I...

19 **MS. BEHLING:** Okay.

20 **MR. GRIFFON:** Good point, though. All right,  
21 23.2.

22 **MS. BEHLING:** Again this is an issue that we've  
23 discussed many times. It's -- they did not  
24 assign any uncertainty associated with the  
25 recorded dose, and it's because the

1 Implementation Guide has such complex procedure  
2 and equations for calculating what the  
3 uncertainty should be surrounding that recorded  
4 dose. Now this is one of those cases when  
5 there is a best estimate used or the workbook  
6 is used and they do Monte Carlo techniques,  
7 this is taken into consideration. But I think  
8 here again the Implementation Guide just needs  
9 to be changed.

10 **DR. BEHLING:** Well, I think the -- the current  
11 workbooks that have been developed make -- make  
12 an attempt to introduce that calculation that's  
13 identified in -- in the Implementation Guide  
14 and -- and does it for you. You can't do it  
15 manually. It's impossible.

16 **MR. GRIFFON:** So this was a pre-workbook phase  
17 --

18 **DR. BEHLING:** Yes.

19 **MR. GRIFFON:** -- case?

20 **DR. BEHLING:** Yes.

21 **MR. GRIFFON:** Okay.

22 **DR. BEHLING:** And people have either  
23 circumvented the need for uncertainty  
24 calculation by doing one of two things. They  
25 multiply everything by two, which gives you the

1           95th percentile value which is allowable under  
2           TIB-8 and 10, or they -- and then enter it as a  
3           constant, or they simply ignore it, which is  
4           now missing an uncertainty value. So we cite  
5           it, even though I'm very sympathetic in saying  
6           if I had to do it, I wouldn't know how. And so  
7           I have to say the workbook has taken care of  
8           that, but that has only been recently  
9           introduced.

10          **MS. BEHLING:** However --

11          **MR. GRIFFON:** Well, can I ask NIOSH that? Has  
12          the -- have the workbooks taken care of this  
13          issue? I mean are --

14          **MS. BEHLING:** No, and maybe I can answer that  
15          with -- just quickly. I believe actually the  
16          workbook takes care of it, and this is what I  
17          was trying to say, when they're using -- when  
18          they're doing a best estimate because that's  
19          when they run Crystal Ball and --

20          **MR. GRIFFON:** Oh, right.

21          **MS. BEHLING:** -- that's when all of the  
22          uncertainty, so -- so this is not resolved on  
23          most cases. I feel that the Implementation  
24          Guide should be changed to either put in  
25          something that's a reasonable --

1           **DR. BEHLING:** Thirty percent.

2           **MS. BEHLING:** -- 30 percent, exactly, that's  
3 what I was going to suggest -- uncertainty be  
4 put in with these recorded doses.

5           **MR. HINNEFELD:** Well, in our view --

6           **MR. GRIFFON:** For cases that aren't best  
7 estimate? Is that what --

8           **MS. BEHLING:** Yes.

9           **MR. HINNEFELD:** Yeah. In our view, a -- a  
10 measured -- measured dosimeter dose is normally  
11 distributed, and so the way that -- there --  
12 there are a few acceptable ways of getting  
13 around that, we think. One is that if you're  
14 doing a -- an underestimating approach, for  
15 instance, so you -- you don't include all of  
16 it, for instance, you shave it down, you submit  
17 it as a constant 'cause it's at least that  
18 high. There is a way to get around it by -- if  
19 you're -- if the target organ has a dose  
20 conversion factor that is completely less than  
21 one, like below -- usually about .8 or so, or  
22 .9, the entire breadth of the triangular  
23 distribution is below that number, you can  
24 enter one as a DCF which overestimates that,  
25 and then enter your -- read a dose number as a

1 constant. We've been doing that for a while.  
2 We're verifying right now that that's  
3 appropriate, that that is in fact more  
4 favorable than a 30 percent distribution --  
5 (unintelligible) normal distribution -- 30  
6 percent uncertainty (unintelligible) normal  
7 distribution. We are doing that verification  
8 now. So so far it's looking pretty good, 30  
9 percent -- 30 percent distribution normally  
10 distributed times the triangular DCF so far is  
11 -- is consistently less than using the measured  
12 value as a constant times one for DCF and  
13 reporting that value as a -- as a constant. So  
14 we're in -- we're in the middle of verifying --  
15 **DR. BEHLING:** And -- but if that is adopted, I  
16 guess I would recommend you proceduralize that  
17 option so it's clear to -- to the dose  
18 reconstructor if you're going to use  
19 (unintelligible) as a DCF for those organs  
20 where the DCF is well below some value, then  
21 that accounts for uncertainty, so skip it.  
22 **MR. HINNEFELD:** It is certainly -- it is  
23 certainly our position that you cannot just  
24 ignore the uncertainty 'cause it's hard. You  
25 know, there should be a way to do it, like --

1           like you said, 30 percent and -- on the  
2           measured dose. A measured value is normally  
3           distributed.

4           **MR. GRIFFON:** Okay. So can -- can I say, Stu,  
5           this is -- you're -- you're doing -- you're in  
6           the throes of a final evaluation for this or...

7           **MR. HINNEFELD:** Well, on this particular one,  
8           the dose conversion factor isn't entirely below  
9           one, I don't think, so that shorthand wouldn't  
10          be appropriate for this case.

11          **DR. BEHLING:** No, for skin, for instance, it  
12          wouldn't be appropriate.

13          **MR. GRIFFON:** Right.

14          **MR. HINNEFELD:** Right.

15          **MR. GRIFFON:** Right, for this case, but then  
16          for the -- for the broader issue of this  
17          general finding --

18          **MR. HINNEFELD:** Yeah.

19          **MR. GRIFFON:** -- you're -- are you going to  
20          revise --

21          **MR. HINNEFELD:** I think we -- we promised that.  
22          I mean that's been promised -- that's part of  
23          our response in the first 20 DR reviews.

24          **MR. GRIFFON:** And -- and to revise what? In --  
25          in the -- in the --

1           **MR. HINNEFELD:** Well, the first thing --

2           **MR. GRIFFON:** -- IG or where -- where is the  
3           procedural revision going to take place?

4           **MR. HINNEFELD:** I'll have to get with ORAU and  
5           find out from them where it belongs because  
6           they're the ones who worked on the procedures  
7           more than us.

8           **MR. GRIFFON:** And 23.3?

9           **MS. MUNN:** Before we do anything else on 23.3,  
10          how about turning the page up to page six and  
11          making sure that all names are removed from  
12          this.

13          **MR. GRIFFON:** Yeah, I was going to -- I saw  
14          that, too.

15          **MS. MUNN:** Please, mark out the name.

16          **MR. GRIFFON:** Yeah, a name got in there.

17          **DR. BEHLING:** I'm very cautious about ever  
18          using --

19          **MR. HINNEFELD:** That was ours. That was ours.

20          **MS. BEHLING:** That was NIOSH's. In this  
21          particular finding we --

22          **MR. GRIFFON:** We're on 22. -- we're at 23.3.

23          **MS. BEHLING:** 23.3.

24          **MR. GRIFFON:** Yes.

25          **MS. BEHLING:** Yeah, looking at the records and

1 looking at the CATI report, we came to the  
2 conclusion that possibly this individual should  
3 have been assigned missed neutron dose. I  
4 believe the records actually had zeroes under  
5 neutron dose for '61 through '90, and then  
6 there were blanks from -- no, no, I guess there  
7 were zeroes between '61 through '74 and then --  
8 **DR. BEHLING:** After 1974 they were recorded as  
9 blanks.

10 **MS. BEHLING:** -- after '74 there were blanks,  
11 and so -- and also based on the fact that in  
12 the CATI report the individual indicated that  
13 he may have been exposed to californium and  
14 uranium, and so based on that information we  
15 just felt that possibly missed neutron dose  
16 should have been assessed.

17 **MS. MUNN:** He said he may have been, did not --  
18 was not clear?

19 **MS. BEHLING:** What happens on the CATI report,  
20 there's a list of radionuclides and --

21 **MS. MUNN:** Yeah, I remember that.

22 **MS. BEHLING:** -- they're asked to checkmark  
23 those that they have been exposed to or they  
24 (unintelligible) --

25 **MS. MUNN:** But there wasn't any verbal

1 expansion on that?

2 **MS. BEHLING:** No, it's just check marked.

3 **MS. MUNN:** Okay.

4 **DR. BEHLING:** But also his work station loc--  
5 location was building 92-12 and I think if I  
6 looked at the TBD that might suggest potential  
7 exposures to neutrons.

8 **MS. BEHLING:** Stu's digging for papers again.

9 **MR. HINNEFELD:** Yeah, I'm digging -- I thought  
10 I'd brought something -- I'm digging. I  
11 thought I brought something on this, but maybe  
12 not.

13 **MS. MUNN:** These kind of judgment calls are the  
14 kind that I have the most difficulty with, and  
15 I guess I've always had difficulty with  
16 assigning dose to people who are monitored and  
17 show zero exposure. It's one thing if you're  
18 not monitored and there's reason to believe you  
19 might have been exposed. But if you're  
20 monitored and you're showing zero exposure,  
21 then how much -- how can we just dismiss that  
22 as being unacceptable, inaccurate --

23 **MS. BEHLING:** We don't write the procedures on  
24 --

25 **MS. MUNN:** I know, I know.

1           **MS. BEHLING:** -- how to calculate missed dose.

2           **MR. GRIFFON:** (Unintelligible)

3           **DR. BEHLING:** Wanda, what I always do is I look  
4 at the report. If I see out of a -- let's say  
5 five years' worth or ten years' worth of  
6 monitoring a handful of positive ones, I say  
7 okay, now he was -- the exposure must have been  
8 very nominal where a few of them went over the  
9 point where there are recorded dose but the  
10 rest are zeroes. Now that gives me reason to  
11 believe that I'm not near zero, but I'm  
12 somewhere between zero and recordable, and  
13 that's evidenced by a few that went over the  
14 top that actually became recorded dose, so I  
15 usually try to look at that in saying where am  
16 I. If a secretary was monitored and she has  
17 ten years' worth of zeroes, you're closer to  
18 zero down here, there's no question about that.  
19 But if you have someone who was monitored for a  
20 period of time and even a handful went above  
21 that LOD level and reported as positive, then  
22 you can be sure that the missing data or the  
23 missed dose data is somewhere between zero and  
24 LOD.

25           **MS. BEHLING:** And I think the other thing that

1 we do, and you'll see it in this particular  
2 case, we try to look at supporting data such  
3 as, in this case, first of all the CATI report  
4 indicated the uranium and the californium. We  
5 also went back and verified what buildings he  
6 worked at -- in and checked the TBD to  
7 determine could he have been exposed to  
8 neutrons in this building, 92-12. So we look  
9 at a number of issues before we make a decision  
10 as to whether we believe that there -- there  
11 should have been missed dose -- neutron dose  
12 assigned, not just zeroes on the -- the DOE  
13 records.

14 **MR. HINNEFELD:** Yeah, Y-12 hung a badge that  
15 included a neutron component on everybody. I  
16 mean when they badged them, the neutron  
17 component went along, regardless of their  
18 potential for exposure to neutrons. It's just  
19 part of (unintelligible).

20 **DR. BEHLING:** Yeah, in fact that's a question I  
21 have. When the TLND was introduced at Savannah  
22 River or at Hanford, was a person who was not  
23 even remotely likely to be exposed to neutron,  
24 was that badge analyzed? Was the algorithm  
25 followed to see if there was a neutron

1 component even though, based on location, the  
2 likelihood of a neutron exposure was zilch?

3 **MR. HINNEFELD:** Well, I guess sitting here  
4 today I don't know. I really don't  
5 (unintelligible).

6 **DR. BEHLING:** Because I never know how to  
7 interpret -- if I see a blank, I feel more  
8 comfortable the person wasn't exposed. If I  
9 see a zero, there must have been a reason why  
10 that badge was processed.

11 **MS. BEHLING:** Uh-huh.

12 **MR. HINNEFELD:** So -- and I don't know, sitting  
13 here. We could provide, you know, additional  
14 research with the dose reconstructors and  
15 people who know more about Y-12 and Y-12 dose  
16 reconstructions than I do and -- and come up  
17 with maybe a better explanation, but from our  
18 view, that -- you know, this was someone who --  
19 well, a machinist at Y-12, you know, other than  
20 californium, you know, is there really going to  
21 be that much neutron around the uranium --  
22 chunk of uranium, you know. You're not going  
23 to find it around uranium unless he happened to  
24 be around the californium source, which must  
25 have been a calibration source of some sort.

1 Really where's the neutron exposure, and as a  
2 machinist, would he have spent that much time  
3 around the californium source. So there's a  
4 number of questions that play in your mind  
5 about why -- was this guy really -- you know,  
6 was there really significant potential for  
7 neutron doses here beyond some nominal amount  
8 that we feel like the overestimating approaches  
9 address. But we can -- I mean we can get  
10 additional information from more expert dose  
11 reconstructors than I to look through this and  
12 say okay, what's the thought process here and  
13 why is this not a missed neutron dose in the  
14 case.

15 **DR. WADE:** Well, I think we're at the witching  
16 hour, so I (unintelligible) --

17 **MR. GRIFFON:** Yeah, I think we're at the -- so  
18 -- so what -- just to conclude that last one,  
19 though, is -- are you going to look into this  
20 further --

21 **MR. HINNEFELD:** Yes.

22 **MR. GRIFFON:** -- Stu?

23 **MR. HINNEFELD:** Yes.

24 **MR. GRIFFON:** Okay. Yeah, I think it's time to  
25 --

1           **MS. BEHLING:** I guess we could close out this -  
2           - this number 23, though, because the last  
3           finding is one that we've discussed before, so  
4           we've -- this is, again, the selection of 28  
5           radionuclides as opposed to 12 radionuclides,  
6           and this is not necessarily a site with a  
7           reactor, so we just questioned that, so just --

8           **MR. GRIFFON:** No, I see three more findings,  
9           though.

10          **MS. BEHLING:** Oh --

11          **MR. GRIFFON:** 23.4, 23.5 --

12          **MS. BEHLING:** -- oh, I'm sorry, I jumped ahead.

13          **MR. GRIFFON:** Yeah, I was going to try to close  
14          it out, too, but I think there's more CATI  
15          discussion there and it looks like a pretty  
16          lengthy one.

17          **MS. BEHLING:** Okay, never mind.

18          **MR. GRIFFON:** Or I -- yeah, let's just break  
19          here at 23.3 --

20          **MR. HINNEFELD:** I think -- I think we just  
21          ought to take another look at the case in  
22          general. We'll take all the comments on this  
23          case and make it all part of our additional  
24          evaluation of -- of the components of this dose  
25          reconstruction and what support do we have for

1 the approach that was taken.

2 **MR. GRIFFON:** That sounds reasonable. All  
3 right, we're --

4 **DR. WADE:** Now I don't have any --

5 **MR. GRIFFON:** -- at a good break point. I'm  
6 sure everybody is just about broken.

7 **DR. WADE:** -- information -- I don't have any  
8 information on the -- the Boston hotels, but  
9 LaShawn is working on that. That'll be our  
10 operative strategy. We'll try and meet the  
11 27th, close to the Logan Airport. We'll get  
12 information to you as soon as we have it.

13 **MR. GRIFFON:** There is -- there is a Hilton  
14 right at the airport which -- you can -- you  
15 don't even have to leave the terminal, but I  
16 don't know what -- you know, that's -- that's  
17 one option, anyway.

18 **DR. WADE:** Right, I just don't know that  
19 availability. LaShawn's working on that.

20 **MR. GRIFFON:** Okay.

21 **DR. WADE:** And then, you know, I'll leave to  
22 the working group how it wants to conclude its  
23 work on this set of 20 and the next 20. You  
24 know, it'd be good to get this thing wrapped up  
25 before the next Board meeting --

1           **MS. MUNN:** Sure would.

2           **DR. WADE:** -- that's at the end of April.

3           **MS. MUNN:** That means March.

4           **MR. GRIFFON:** Yeah.

5           **DR. WADE:** March, both the month and the  
6 activity required.

7           **MS. MUNN:** Yes.

8           **MR. GRIFFON:** All right.

9           **MS. MUNN:** And any other definitions you can  
10 (unintelligible) trickle on downwards.

11          **DR. WADE:** On that note, thank you for your --

12          **MR. GRIFFON:** Yeah, let -- let's think of -- of  
13 -- I mean I think we might want to reconvene  
14 this group --

15          **MS. MUNN:** Yeah.

16          **MR. GRIFFON:** -- and maybe piggyback with one  
17 of the other site profile groups -- I'm not on  
18 any other workgroup on the other site profiles,  
19 so -- but -- but we can discuss that maybe in  
20 Boston, if we come up to Boston --

21          **MS. MUNN:** Well --

22          **MR. GRIFFON:** -- on the --

23          **MS. MUNN:** -- it would really be very helpful  
24 for me if we could do that sooner than Boston.

25          **MR. GRIFFON:** Well, do -- do you know the other

1           dates, though, for the other meetings, or do  
2           you have your own --

3           **MS. MUNN:** Well, I do know that the Nevada Test  
4           Site working group does not have a date  
5           established. Right, Bob?

6           **MR. PRESLEY:** That's correct.

7           **MS. MUNN:** Because our original choice of the  
8           28th couldn't be met by NIOSH staff. They  
9           didn't have enough time -- not enough hours in  
10          their lives --

11          **MR. GRIFFON:** Right.

12          **MS. MUNN:** -- to get there, so that group is  
13          going to have to meet sometime in March, and  
14          that has not been determined yet. And my  
15          calendar is looking kind of funny. I don't  
16          know, it just -- what does your calendar look  
17          like, Mark?

18          **MR. GRIFFON:** Disastrous, but you know.

19          **MS. MUNN:** Well, can we squeeze out another day  
20          in March out of this somehow to -- to get --  
21          finish this one up?

22          **DR. WADE:** Could be if you pick the day, others  
23          will sort of gather around you, so...

24          **MR. GRIFFON:** I think we -- I think we have to.  
25          Right? We could do -- I could do March 7th or

1 8th.

2 **MS. MUNN:** I (unintelligible) 8th. As I said,  
3 I'm -- I'm tied up with a caucus on the 7th  
4 which will make it impossible for me to fly on  
5 the 7th.

6 **MR. GRIFFON:** 7th, 8th or 9th I can do,  
7 actually. How about --

8 **MR. PRESLEY:** The day of the 8th and the 9th  
9 I'm tied up.

10 **MS. MUNN:** Okay. How about Friday?

11 **MR. GRIFFON:** The 10th?

12 **MR. PRESLEY:** Well, that's -- that'd -- that'd  
13 be a problem for me 'cause I --

14 **MR. GRIFFON:** Getting there?

15 **MR. PRESLEY:** -- my meeting is all day on the  
16 9th.

17 **MS. MUNN:** Okay. Well, we have our full Board  
18 call on the 14th. Can we --

19 **MR. PRESLEY:** That's correct.

20 **MS. MUNN:** Can we do this the day before or  
21 something, or -- well, no, that'd put us  
22 traveling, wouldn't it?

23 **MR. GRIFFON:** Yeah.

24 **MS. MUNN:** Can't do that. I guess we could all  
25 be in one place for the call on the 14th and --

1           **MR. GRIFFON:** Other-- otherwise I'm kind of out  
2           to like March 28th or 29th or 30th.

3           **MS. MUNN:** That's awful.

4           **MR. GRIFFON:** Yeah, that's a ways away.

5           **MS. MUNN:** We need to be able to do that before  
6           then.

7           **DR. WADE:** How about March 2nd?

8           **MS. MUNN:** I can't do it, but you can certainly  
9           work around me. I have Oregon State's NE  
10          Department in my lap on the 2nd.

11          **MR. PRESLEY:** Let me ask you something. Can we  
12          have another conference call? This has worked  
13          pretty good today.

14          **MS. MUNN:** Yeah.

15          **DR. WADE:** We can.

16          **MR. GRIFFON:** Ray, what do you think about  
17          that? Was it okay for you?

18          **DR. WADE:** Say again?

19          **MR. GRIFFON:** I'm asking Ray if it was okay for  
20          him.

21          **THE COURT REPORTER:** Yeah, the phone has been  
22          good today.

23          **MR. GRIFFON:** Yeah.

24          **MS. MUNN:** As long as we can get one or two of  
25          us somewhere and the -- the NIOSH folks and

1 SC&A face to face. They're the people who need  
2 to be together with the paper more than  
3 anything else.

4 **MR. GRIFFON:** That gives us more flexibility.

5 **DR. WADE:** How about the 3rd of March with that  
6 model?

7 **MR. GRIFFON:** (Unintelligible) -- with that  
8 model.

9 **DR. WADE:** Well, I mean some --

10 **MR. GRIFFON:** Yeah.

11 **DR. WADE:** -- NIOSH and some SC&A people here,  
12 others by phone.

13 **MR. PRESLEY:** I can make it the 3rd up until  
14 about 4:30, then I've got to back off of that,  
15 but I'm available.

16 **MR. GRIFFON:** But we -- can we do that model on  
17 the 2nd? Is that possible?

18 **DR. WADE:** This is Wanda's visit.

19 **MR. GRIFFON:** Oh, is that your --

20 **MS. MUNN:** Yeah, I've -- I've got Oregon State  
21 --

22 **MR. GRIFFON:** The 3rd I've got --

23 **MS. MUNN:** -- (unintelligible) people.

24 **MR. GRIFFON:** The 3rd I've got a conflict in  
25 the morning.

1           **MS. MUNN:** We've got -- well --

2           **MR. PRESLEY:** Y'all know (unintelligible) --

3           **MS. MUNN:** -- we're meeting on the 27th on the  
4           Y-12 and SEC and -- and Rocky thing.

5           **MR. GRIFFON:** Right.

6           **MS. MUNN:** And NIOSH has said they couldn't  
7           support the 28th for a different thing, but  
8           could we -- would it be possible for us to  
9           finish up these procedures that day?

10          **MR. HINNEFELD:** It's okay with us.

11          **MR. PRESLEY:** When's that?

12          **MS. MUNN:** Huh?

13          **MR. PRESLEY:** When is that?

14          **MS. MUNN:** The 28th.

15          **MR. GRIFFON:** 28th, be back onto the --

16          **MS. MUNN:** If we were going to meet in Boston  
17          anyway.

18          **MR. PRESLEY:** I can handle that now -- oh, you  
19          mean two days in Boston?

20          **MS. MUNN:** Well, or -- yeah -- yeah. Two days  
21          wherever we're going to be. Since we're going  
22          to be in -- in the face-to-face process anyhow  
23          on a --

24          **MR. GRIFFON:** Yeah, I could do that.

25          **MS. MUNN:** -- on a different tack, and Jim has

1           said the NIOSH folks couldn't work up NTS for  
2           the other working group, but --

3           **MR. HINNEFELD:** We can -- we can be -- we can  
4           attend your -- on -- we can do it the 28th.

5           **MS. MUNN:** Good.

6           **MR. PRESLEY:** I -- I can make the two days in  
7           Boston.

8           **MS. MUNN:** Okay, let's --

9           **DR. WADE:** I'll tentatively schedule that.

10          **MS. MUNN:** Okay.

11          **MR. GIBSON:** So that -- that's February 27th  
12          and 28th?

13          **MS. MUNN:** Correct.

14          **MR. GIBSON:** Okay.

15          **MR. HINNEFELD:** We'll have to travel out on the  
16          28th. We'll have to leave Boston and come home  
17          on the 28th. We have to be in the office on  
18          the 1st.

19          **DR. WADE:** Okay. Okay.

20          **MR. GRIFFON:** Okay.

21          **DR. WADE:** So we can start early that morning  
22          'cause we'll be there already.

23          **MS. MUNN:** Uh-huh.

24          **DR. WADE:** And we'll try and leave people time  
25          to get home to their -- their homes by the --

1 by close of the shift on the 28th.

2 **MS. MUNN:** Yeah.

3 **DR. WADE:** It's a plan.

4 **MS. MUNN:** Everybody but me.

5 **MR. PRESLEY:** I don't know how much I can fly  
6 out of Boston that late in the afternoon,  
7 either.

8 **MS. MUNN:** No, might as well hang out.

9 **MR. HINNEFELD:** Oh, shoot --

10 **DR. WADE:** What (unintelligible) --

11 **MR. HINNEFELD:** Forget -- forget it, we'll get  
12 out of it.

13 **MR. GIBSON:** Mark, they have flights back to  
14 Cincinnati on the 28th. Right?

15 **MS. MUNN:** Sure.

16 **MR. GRIFFON:** They should -- they should go --  
17 I think -- I think at least till 9:00 or so --  
18 8:00 or 9:00.

19 **MR. GIBSON:** Okay.

20 **MR. GRIFFON:** Yeah. So you should be  
21 (unintelligible) --

22 **MR. GIBSON:** (Unintelligible)

23 **MR. GRIFFON:** -- yeah, you should be all right.

24 **MR. GIBSON:** I've got the kids to take care of,  
25 so...

1           **MR. GRIFFON:** Yeah. Okay, that -- that should  
2 work, 27th and 28th then in Bos-- hopefully in  
3 Boston.

4           **MS. MUNN:** Yeah, we'll all be numb by then.

5           **MR. HINNEFELD:** You're not already?

6           **DR. WADE:** I'll let you know as soon as I know  
7 about the hotel availability.

8           **MS. MUNN:** Good.

9           **MR. GRIFFON:** All right.

10          **MS. MUNN:** It ought to be someplace close.

11          **DR. WADE:** We'll figure out something.

12          **MR. GRIFFON:** Thanks a lot, everyone. Sorry I  
13 couldn't be there in person.

14          **MS. MUNN:** Thank you.

15                 (Whereupon, the working group meeting was  
16 adjourned at 4:45 p.m.)

1

**CERTIFICATE OF COURT REPORTER****STATE OF GEORGIA****COUNTY OF FULTON**

I, Steven Ray Green, Certified Merit Court Reporter, do hereby certify that I reported the above and foregoing on the day of February 13, 2006; and it is a true and accurate transcript of the testimony captioned herein.

I further certify that I am neither kin nor counsel to any of the parties herein, nor have any interest in the cause named herein.

WITNESS my hand and official seal this the 3rd day of April, 2006.

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