

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 SUBCOMMITTEE FOR DOSE RECONSTRUCTION REVIEW  
OF THE

ADVISORY BOARD ON

RADIATION AND WORKER HEALTH

The verbatim transcript of the  
Meeting of the Subcommittee for Dose Reconstruction  
Review of the Advisory Board on Radiation and  
Worker Health held at the Marriott Airport, Hebron,  
Kentucky, on August 20, 2008.

STEVEN RAY GREEN AND ASSOCIATES  
NATIONALLY CERTIFIED COURT REPORTERS  
404/733-6070

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August 20, 2008

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-- "uh-huh" represents an affirmative response, and "uh-uh" represents a negative response.

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

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

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2  
3

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

(9:54 a.m.)

WELCOME AND OPENING COMMENTSDR. LEWIS WADE, DESIGNATED FEDERAL OFFICIAL

1 **DR. WADE:** Okay, good morning. This is Lew Wade and  
2 I'm serving as the Designated Federal Official  
3 today for a meeting of the Subcommittee on Dose  
4 Reconstruction. That subcommittee is most ably  
5 chaired by Mark Griffon; members Gibson,  
6 Poston, Munn; alternates Clawson and Presley.  
7 Here in the room we have Griffon, Gibson, Munn  
8 and Clawson. I know Dr. Poston is on the  
9 phone. Is that correct, Dr. Poston?

10 **DR. POSTON:** Yes.

11 **DR. WADE:** Is Robert Presley on the phone with  
12 us?

13 (No responses)

14 Are there any other Board members who are  
15 participating in the call? Any other Board  
16 members other than those named participating in  
17 the call?

18 (No responses)

19 Fine. We really don't have to be concerned  
20 about a quorum because this is a meeting of the

1 subcommittee and we can have a quorum of the  
2 Board present. So we have present and  
3 participating Griffon, Gibson, Poston, Munn and  
4 Clawson.

5 What we'll do is go around the table here and  
6 identify who's present. Then we'll go out into  
7 telephone land and identify, and then we'll  
8 have a -- a brief discussion about phone  
9 etiquette, and then we'll begin the  
10 deliberations of the subcommittee.

11 Again, this is Lew Wade and I'm serving as  
12 Designated Federal Official, and I work for  
13 NIOSH.

14 **MS. MUNN:** Wanda Munn, Board member.

15 **MR. HINNEFELD:** Stu Hinnefeld, NIOSH.

16 **MR. SIEBERT:** Scott Siebert, the ORAU team.

17 **MS. ADAMS:** Nancy Adams, contractor to the  
18 Office of the Director, NIOSH.

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

20 **MR. FARVER:** Doug Farver, SC&A.

21 **MR. RAFKY:** Michael Rafky, HHS, OGC.

22 **MR. CLAWSON:** Brad Clawson, Board member.

23 **MR. GRIFFON:** Mark Griffon, Board member.

24 **MR. GIBSON:** Mike Gibson, Board member.

25 **DR. WADE:** And that's us, and Ray Green is

1 here, and you're up and functioning, Ray,  
2 correct?

3 Okay, so let's go out into telephone land and  
4 start with members of the extended NIOSH/OCAS  
5 family who might be on the call.

6 (No responses)

7 How about other SC&A team members?

8 **MS. BEHLING:** This is Kathy Behling with SC&A.

9 **DR. WADE:** Pleasure to have you with us, Kathy,  
10 as always.

11 **MS. BEHLING:** Thank you.

12 **DR. WADE:** Any other SC&A team members?

13 (No responses)

14 Do we have any other federal employees who are  
15 working on this call?

16 (No responses)

17 Other federal employees?

18 (No responses)

19 How about members of Congress or their  
20 representatives who want to be identified as  
21 being on this call?

22 (No responses)

23 Anyone else who would like, for the record, to  
24 be identified as participating in this meeting  
25 of the subcommittee?



1           The sixth set of cases, we have some items to  
2           close out there so I'd like to start with that,  
3           and hopefully we can -- I'm hopeful that we can  
4           wrap up the sixth set of cases.

5           The seventh set of cases we had started at the  
6           last meeting. We didn't quite get through the  
7           entire matrix, so I'd like to -- to complete  
8           that, and I think we also have some initial  
9           responses from SC&A on some of the items that  
10          we discussed at the last meeting so we can see  
11          how to -- I'd like to get one full run through  
12          it first, and then maybe go back and look at  
13          some of those responses that -- that SC&A sent.  
14          And then what I would like to do is at that  
15          point try to cover the -- I -- I sent a draft  
16          letter of this first 100 cases report, which I  
17          -- I sort of put off for the last couple of  
18          meetings. I would like to get it on the table  
19          at this meeting and at least have a preliminary  
20          discussion. And if people need time to take it  
21          home, redline it -- you know, comment on it,  
22          whatever, that's fine. But at least to have an  
23          initial run-through of that letter and discuss  
24          it a little bit.

25          And then if we still have time we can maybe get

1           into the eighth set. That might be ambitious,  
2           but I know Stu did send out preliminary NIOSH  
3           comments for the eighth set, so we have that  
4           work available if we -- we still have time.  
5           So I guess if we could start with the sixth set  
6           of cases --

7           **MR. HINNEFELD:** Mark, there's one thing John  
8           and I were discussing earlier on and it has to  
9           do with the tenth set of dose reconstructions.

10          **MR. GRIFFON:** Uh-huh.

11          **MR. HINNEFELD:** Of course that's --

12          **MR. GRIFFON:** Not quite there yet, yeah.

13          **MR. HINNEFELD:** -- but we've started some pre-  
14          selection work on it, if you'll recall, and for  
15          -- I think for -- maybe for SC&A's benefit, to  
16          make sure that they have things to do, and you  
17          may want to have this conversation now or may--  
18          maybe talk to Mark at lunchtime or something --

19          **MR. GRIFFON:** Yeah, yeah.

20          **MR. HINNEFELD:** -- we may put it off till then,  
21          but there's some pre-selection work that I can  
22          electronically distribute, you know, I'll say  
23          see where we are. And we may want to think  
24          about that in order to have SC&A -- for SC&A to  
25          have some work to do as they go forward.

1           **MR. GRIFFON:** That makes sense. Refresh my  
2 memory, Stu. Where were we? We did a first --

3           **MR. HINNEFELD:** From --

4           **MR. GRIFFON:** -- we did a first iteration of  
5 it?

6           **MR. HINNEFELD:** From my response, we've done  
7 the first pass --

8           **MR. GRIFFON:** Uh-huh.

9           **MR. HINNEFELD:** -- and from what I've -- well,  
10 this is where I think we are, or I think we're  
11 -- I'll confirm this later. We've done the  
12 first pass and there's been some pre-selection,  
13 and I believe we've added, from ORAU, the  
14 additional information that we always ask for.

15           **MR. GRIFFON:** Right.

16           **MR. HINNEFELD:** And I believe we've also  
17 screened -- had the DOL screen done on those  
18 cases, I think. I'm not 100 percent --

19           **MR. GRIFFON:** Did you -- you added that  
20 information. Did you return it to -- to me or  
21 --

22           **MR. HINNEFELD:** I'm not 100 percent sure.

23           **MR. GRIFFON:** Yeah.

24           **MR. HINNEFELD:** I'm not 100 percent sure, so  
25 I'll have to confirm where I am at lunchtime,

1           but it seems like there'd be some value to try  
2           to move forward in some way on that. I don't  
3           know we -- we probably can't choose anything  
4           today, but --

5           **MR. GRIFFON:** Right.

6           **MR. HINNEFELD:** -- perhaps we can be  
7           approaching -- you know, people can look at it  
8           between now and September -- you know, the  
9           first week of September --

10          **MR. GRIFFON:** Yeah.

11          **MR. HINNEFELD:** -- and have some decisions  
12          there on at least some selections.

13          **MR. GRIFFON:** That would make sense to keep --  
14          to put some work --

15          **MR. HINNEFELD:** To keep SC&A --

16          **MR. GRIFFON:** Yeah, yeah.

17          **MR. HINNEFELD:** -- have -- so SC&A has work to  
18          do in this.

19          **MR. GRIFFON:** Okay. All right, we'll check on  
20          that on a break or at lunch today -- check our  
21          records and see what we have 'cause I don't --  
22          I don't remember if I got a file back from you  
23          on that.

24          **MR. HINNEFELD:** I don't know what happened.

25          **MR. GRIFFON:** Okay, that -- that sounds good.

1        **SIXTH SET OF CASES WRAP-UP**

2                    So to start -- I'm working from -- Stu, you put  
3                    some -- some of the comments into a sixth-set  
4                    matrix --

5        **MR. HINNEFELD:** Yes.

6        **MR. GRIFFON:** Which it says updated by OCAS  
7                    August 20, 2008. Do people have that -- that  
8                    matrix, that version of the matrix?

9        **MS. MUNN:** Is this the one?

10       **MR. GRIFFON:** At the very top it says prepared  
11                    by the workgroup May 2nd, 2007, parentheses,  
12                    updated by OCAS August 20, 2008. That's --  
13                    that's at the -- on the header.

14       **MS. MUNN:** And what -- do we have a date that  
15                    was transmitted? Was it transmitted, do you  
16                    know, on the 8th?

17       **MR. CLAWSON:** It was last -- it was last week?

18       **MR. HINNEFELD:** Last Thursday, I think.

19       **MR. GRIFFON:** The 18th? Does that sound  
20                    familiar?

21       **MS. MUNN:** Okay.

22       **MR. GRIFFON:** Maybe it was --

23       **MS. MUNN:** Yeah, that sounds right.

24       **MR. GRIFFON:** The 18th -- the 18th was over a  
25                    weekend.

1           **MR. HINNEFELD:** The 18th was Monday.

2           **MR. GRIFFON:** No, it might have been --

3           **MR. HINNEFELD:** I think it was -- I think it  
4 was the 14th.

5           **MR. GRIFFON:** 14th?

6           **MR. CLAWSON:** Well, because I --

7           **MS. BEHLING:** I believe it's the 13th. This is  
8 Kathy Behling.

9           **MR. HINNEFELD:** Okay, the 13th?

10          **MS. BEHLING:** Uh-huh.

11          **MR. GRIFFON:** Take a second to find that and  
12 when -- and if -- if Doug and Stu, if you guys  
13 can find the starting poi-- I'm a-- I'm  
14 assuming, looking at this, that the only ones  
15 we have to really discuss any further are the  
16 redlined comments that are in this version.  
17 But if I'm incorrect, Doug, if you can, you  
18 know, look through your notes as we're going.

19          **MR. HINNEFELD:** It's actually a subset of that.  
20 It's --

21          **MR. GRIFFON:** It might even be -- it might even  
22 be a subset of that, yeah.

23          **MR. HINNEFELD:** There are a number of comments  
24 -- it starts on 105.5 --

25          **MR. GRIFFON:** Right.

1           **MR. HINNEFELD:** -- and there's a August 20th,  
2           2008 underlined date with some below it. So  
3           each new thing that was sent -- each new piece  
4           of information that was added to the matrix for  
5           this update has that heading, that August 20,  
6           2008 date heading on it.

7           **MR. GRIFFON:** So you're saying these ones on  
8           104.3 were previously in there?

9           **MR. HINNEFELD:** Those were sent previously.

10          **MR. FARVER:** And even some of the information  
11          from the August 20 notes are -- is  
12          clarification information.

13          **MR. GRIFFON:** 'Cause they -- they -- hmm. The  
14          -- the one -- the -- the matrix I was working  
15          from the last meeting -- I think it was the  
16          original May 2nd matrix, and that didn't have  
17          those -- like the --

18          **MR. HINNEFELD:** Any of the redline in it?

19          **MR. GRIFFON:** 104.3, it didn't have those  
20          comments in, and in fact, I had -- I had a  
21          couple of questions on those. Can we -- it --  
22          it might be quick, Stu, but can we step through  
23          any of the redlined comments --

24          **MR. HINNEFELD:** Yeah, sure.

25          **MR. GRIFFON:** -- real quickly and go that way?

1           Yeah, sixth set.

2           **MR. CLAWSON:** We'd be starting at the 104 --

3           **MR. GRIFFON:** So I'm starting at 104.3. And --  
4           and for 104.3, for instance, Doug, do you -- is  
5           there any further comment on this or what's --  
6           what's SC&A's reaction to NIOSH's comment?

7           **MR. FARVER:** Bear with me for a minute. I have  
8           to catch up.

9           **MR. GRIFFON:** Yeah, it always takes us a little  
10          time to start.

11          **DR. MAURO:** Oh, yes, this is an external  
12          exposure to the slabs issue, and we went ahead  
13          and re-derived the doses using our own models  
14          and to see if we came up with the same numbers,  
15          and I believe there was some disparity between  
16          our calculations on the simple external  
17          exposure model and the -- the dose rates that  
18          you folks came up with. And I guess that's as  
19          far as I can take it. As far as your response  
20          goes, I -- I haven't looked at --

21          **MR. HINNEFELD:** My rec-- my recollection of the  
22          finding is that it was -- you guys modeled the  
23          actual dimensions of the uranium slab that was  
24          rolled and -- sorry about that. Okay. Modeled  
25          the actual -- you guys modeled the actual

1 dimensions of the uranium slab and said the  
2 dose rate at these distances would be this,  
3 which is somewhat different -- not a lot,  
4 somewhat different than the model we used. We  
5 had used numbers that had been previously  
6 modeled from a different -- somewhat different  
7 geometry, just for expedience and because if  
8 you're in proximity to uranium metal, you know,  
9 you're going to be in the ball park and we felt  
10 like we had a really generous model in terms of  
11 how close we put the person for how long, and  
12 so we felt like our numbers were sufficiently  
13 bounding because of that.

14 And the other -- the other comment that we made  
15 was that it's -- a person wouldn't be position  
16 at the center of a uran-- you know, a four by  
17 eight uranium slab 'cause it's going to lie  
18 flat.

19 **DR. MAURO:** Uh-huh.

20 **MR. HINNEFELD:** It won't be stored on end and  
21 you can't stack them very high 'cause it'll  
22 just be too much to move. So -- so we -- it  
23 sounds like -- while you did in fact -- you  
24 know, we aren't arguing with what you modeled  
25 because of the dimension. We didn't feel like

1           it was a particularly relevant value or any  
2           more relevant than ours, and we thought that  
3           the -- the -- the generosity of the model was  
4           such that if -- if -- we thought ours was  
5           bounding anyway.

6           **DR. MAURO:** I would ag-- you know, in principle  
7           I agree with that. In other wor-- when you  
8           step back from the analysis, say okay, but  
9           really what are we talking about in terms of a  
10          -- a significance, bear in mind that we just go  
11          through the process that says here's the  
12          geometry, here's the duration of exposure,  
13          here's the distance.

14          **MR. HINNEFELD:** Yeah.

15          **DR. MAURO:** We run our calculations, we come up  
16          with a number and it's somewhat different than  
17          yours.

18          **MR. HINNEFELD:** Yeah.

19          **DR. MAURO:** But I fully agr-- one of -- one of  
20          the philosophies that we -- we're well aware  
21          that when you look at -- in a given analysis in  
22          a macro scale, you know, collecti-- take into  
23          consideration all the assumptions and -- that  
24          are built in, when we come at the problem we  
25          say well, listen, given that this scenario is

1 defined in these terms put away, you know,  
2 2,000 hours a year, what's the dose? So -- so  
3 we say given that, what dose would we get? And  
4 when we do see a difference, we point it out,  
5 even though I acknowledge that in the bigger  
6 picture the difference doesn't really make a --  
7 much of a difference. Nevertheless, we feel  
8 it's incumbent upon us to point out places  
9 where we are coming out -- where we're getting  
10 a factor of two out, I believe, we're not --

11 **MR. HINNEFELD:** Yeah, we weren't very far off,  
12 I forget exactly --

13 **DR. MAURO:** But when you take it -- now a  
14 factor of two could be considered important  
15 enough, but when you step back and say but wait  
16 a minute, we're making like -- as you pointed  
17 out, well, the slabs really aren't going to be  
18 laying, you know, perpendicular to the person.  
19 The person's really not going to be there 2,000  
20 a year, but that's the assumption that's built  
21 into the -- as characterized.

22 **MR. HINNEFELD:** Right.

23 **DR. MAURO:** And the -- and so how we clo-- I  
24 mean how we deal with something like that I  
25 guess is a --

1           **MR. GRIFFON:** Well, I -- I have my -- I -- I  
2 pulled up my matrix from June of 2008, which is  
3 what I did real time during the meeting, which  
4 I should have sent to you before you put  
5 comments into the old one. Now I've got to  
6 merge the two so --

7           **MR. HINNEFELD:** Yeah, sorry.

8           **MR. GRIFFON:** No, that's all right. It's my  
9 fault. But in this -- the one thing it does  
10 say is NIOSH and SC&A to share calculations and  
11 results, just in -- the difference is in doses  
12 assessed. Now I -- I -- you know, I see  
13 agreement here, but I don't know that --

14          **MR. HINNEFELD:** Yeah, I don't think we have any  
15 particular --

16          **MR. GRIFFON:** -- I don't know that you shared  
17 the specifics or -- or...

18          **MR. HINNEFELD:** Well, I thought we had. That's  
19 what I was thinking about --

20          **MR. GRIFFON:** Maybe no, I don't know.

21          **MR. HINNEFELD:** I -- I don't think we have any  
22 particular -- you know, we don't find any issue  
23 with their calculations -- with their model  
24 calculations.

25          **MR. GRIFFON:** Yeah.

1           **DR. MAURO:** And -- and --

2           **MR. HINNEFELD:** We thought that it didn't  
3 exactly fit the geometry that the person would  
4 -- would have and so it wasn't particularly  
5 more relevant --

6           **MR. GRIFFON:** Right.

7           **MR. HINNEFELD:** -- that the other geometry we  
8 already modeled. That's --

9           **MR. GRIFFON:** Right.

10          **MR. HINNEFELD:** -- so that's why we -- that's --  
11 -- was our --

12          **DR. MAURO:** And it wasn't enough I guess -- I'd  
13 have to look back, but the difference in dose  
14 was -- I guess there's two levels. One, what  
15 if the difference in dose was important --

16          **MR. HINNEFELD:** Yeah.

17          **DR. MAURO:** -- from the point of view of  
18 compensation. And second, though, if it was,  
19 then things become a little bit more  
20 fundamental. That is, then I think it's  
21 important that in your scenario you -- and if  
22 you do do it with a different geometry and it  
23 is -- where you are actually coming in let's  
24 say with a factor of two lower, and it's  
25 justifiable --

1           **MR. HINNEFELD:** Yeah.

2           **DR. MAURO:** -- I mean I'm not saying it's not  
3           justifia-- and it's justifiable, then I think  
4           that's important that that be made, you know,  
5           explicit in the analysis --

6           **MR. HINNEFELD:** In the -- in the model?

7           **DR. MAURO:** In the model, if it --

8           **MR. HINNEFELD:** No problem.

9           **DR. MAURO:** -- if it's self-- you know -- see,  
10          right now the differences we're talking about  
11          are one where yeah, we could see you -- you  
12          could model it that way, but that's not the way  
13          it was described.

14          **MR. HINNEFELD:** Yeah.

15          **DR. MAURO:** When we modeled it the way  
16          described, we come up with something different.  
17          Now the difference in this case was -- is a  
18          difference that doesn't really change anything  
19          in terms of compensation, but it could have.

20          **MR. HINNEFELD:** Yeah.

21          **DR. MAURO:** And -- and I guess that's where we  
22          are right now.

23          **MR. GRIFFON:** So I gue-- it -- it -- what --  
24          what I heard from Stu is that you don't  
25          disagree with what the calculation that SC&A

1 did --

2 **MR. HINNEFELD:** No, right.

3 **MR. GRIFFON:** -- and --

4 **MR. HINNEFELD:** Well --

5 **MR. GRIFFON:** -- John, you're comfortable with  
6 the scenario that they've laid out --

7 **DR. MAURO:** Right, that --

8 **MR. GRIFFON:** -- as far as -- right, right.

9 **DR. MAURO:** Quite frankly, perhaps the idea  
10 circumstance and how you want to deal with that  
11 is that it be explained that way. That is,  
12 when -- in other words, in -- in the actual  
13 documentation of what was done, in effect you -  
14 - you have an approximation that, you know,  
15 that's based on -- takes into consideration  
16 that -- the fact that the person may not have  
17 been that close that long. But it puts us in a  
18 tough spot. We're trying to match numbers.

19 **MR. GRIFFON:** Right, I know.

20 **DR. MAURO:** And if in fact the methods used  
21 differed than -- than what's described in the  
22 dose reconstruction, it puts us in a tough spot  
23 to say well, are we going to be critical here  
24 and -- and -- and we are. You know, we made a  
25 -- a comment saying that well, we weren't able

1 to really get your numbers. What's -- what's  
2 done about that, I -- I guess I'm not quite  
3 sure.

4 **MR. GRIFFON:** Right.

5 **MR. HINNEFELD:** Well, it'd be a fairly simple  
6 matter to write a sentence in the site profile  
7 -- I don't remember, which site is this?

8 **DR. MAURO:** Which one is this?

9 **MR. GRIFFON:** Superior Steel.

10 **DR. MAURO:** Superior Steel.

11 **MR. GRIFFON:** Yeah, yeah.

12 **DR. MAURO:** The size of -- yeah, I remember the  
13 -- I remember this one, yeah.

14 **MR. HINNEFELD:** I mean it'd be a simple matter  
15 to write it in there. It would affect this --  
16 this DR -- I don't know if there are any  
17 Superior Steels waiting to be done or -- of  
18 course that's not to say we couldn't get more.

19 **MR. GRIFFON:** Right.

20 **MR. HINNEFELD:** It's sort of --

21 **MR. GRIFFON:** Although it's probably not going  
22 to affect any others -- only --

23 **MR. HINNEFELD:** I don't think it would.

24 **MR. GRIFFON:** -- affects is 'cause they were  
25 all done with this technique.

1           **MR. HINNEFELD:** It's all done with this  
2           technique and we just say -- just describe the  
3           technique more fully in the document.

4           **MR. GRIFFON:** You're really just changing the  
5           (unintelligible) was really being done.

6           **MR. HINNEFELD:** Yeah.

7           **MR. GRIFFON:** Yeah.

8           **DR. MAURO:** Now that I'm -- I'm looking at it  
9           and -- and Doug pointed it out, I think it was  
10          silent regarding the size of the plates.

11          **MR. HINNEFELD:** Oh, okay.

12          **DR. MAURO:** It was silent and we -- and we did  
13          a little research into what we thought the  
14          plates were --

15          **MR. HINNEFELD:** Okay.

16          **DR. MAURO:** -- and so -- so we -- there is --  
17          if you get to try -- other -- we brought it to  
18          a level of resolution that was perhaps greater  
19          than the resolu--

20          **MR. HINNEFELD:** Right.

21          **DR. MAURO:** -- you -- you really specified.

22          **MR. HINNEFELD:** We just felt like they were  
23          close to uranium metal --

24          **DR. MAURO:** Yeah.

25          **MR. HINNEFELD:** -- we've got this model, we can

1           get a dose rate off uranium metal and, although  
2           it wasn't exact geometry may-- we knew -- then  
3           we didn't really -- in that case we wouldn't  
4           really care what the exact geometry was. We'd  
5           say well, this is our dose rate for close --  
6           this -- this dose rate, in combination with  
7           these --

8           **DR. MAURO:** Right.

9           **MR. HINNEFELD:** -- parameters about how close  
10          they were for how long, is sufficient to bound  
11          the dose. And I think really the doses  
12          assigned by the site profile are really hi--  
13          are really high compared to what you would see  
14          if you looked at the dose rates say from  
15          Fernald in the mid-'80s when they were running  
16          really high production levels. They almost --  
17          you know, I don't know that we ever had -- we -  
18          - or that they ever had anybody get to a rem a  
19          year in -- in photon exposure, even when they  
20          were -- the place was packed with uranium.  
21          So...

22          **MR. GRIFFON:** So I -- I mean I -- I hear  
23          agreement, and I -- I would just ask that if  
24          NIOSH can modify the site profile to add in the  
25          scenario used for external dose calculations,

1           then it's -- then it's put to bed. Right?

2           **MR. HINNEFELD:** Okay.

3           **DR. MAURO:** Well, you know --

4           **MR. GRIFFON:** Just to add that in, just to...

5           **MR. HINNEFELD:** Well, we can say in there that  
6           -- we can make some clarifying information that  
7           this is considered -- you know, we consider  
8           this technique appropriately bounding for a  
9           uranium metal exposure situation --

10          **DR. MAURO:** This class of problem.

11          **MR. HINNEFELD:** -- yeah, this class of problem,  
12          regardless --

13          **MR. GRIFFON:** Right.

14          **MR. HINNEFELD:** -- of the geometry -- the  
15          specific geometry --

16          **DR. MAURO:** And we -- and we --

17          **MR. HINNEFELD:** -- uranium.

18          **DR. MAURO:** -- would agree with that.

19          **MR. GRIFFON:** Yeah. All right, so that one's  
20          done. I'm -- I'm moving on to 104.4.

21          **MS. MUNN:** Say you're going to  
22          (unintelligible).

23          **MR. GRIFFON:** Now 104.4, this is what -- this  
24          is one thing that sort of -- when I saw your  
25          redlined comments, Stu, this is one thing that

1           -- my memory was different than what was  
2           written there and -- only in the sense that I  
3           thought this was a generic issue and I was  
4           awaiting this sort of white paper to come back  
5           on this generic resuspension question, and you  
6           seem to -- to answer it more specifically for  
7           this instance, but don't allude to any -- any  
8           white paper or anything like that, so...

9           **MR. HINNEFELD:** Yeah, I think maybe this  
10          redline may have predated our -- our final  
11          determination --

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

13          **MR. HINNEFELD:** -- and it still remains in  
14          global, so --

15          **DR. MAURO:** Yeah, we -- yeah, we --

16          **MR. GRIFFON:** So -- so the resolution I have is  
17          that NIOSH -- or that NIOSH is developing a  
18          white paper to address several of these generic  
19          iss-- you know, including resuspension, and  
20          ingestion I think is the other one.

21          **DR. MAURO:** Yeah, that -- that white paper and  
22          how you finally decide what to -- how to deal  
23          with ten to the minus six resuspension factor -  
24          -

25          **MR. HINNEFELD:** Yeah.

1           **MR. GRIFFON:** Yeah.

2           **DR. MAURO:** -- it's going to have a ripple  
3 effect upon --

4           **MR. GRIFFON:** Yeah.

5           **MR. HINNEFELD:** -- a lot of stuff.

6           **DR. MAURO:** -- across the board.

7           **MR. HINNEFELD:** A lot of stuff, yeah.

8           **DR. MAURO:** The fortunate thing about it --

9           **MR. GRIFFON:** I mean where does that stand,  
10 Stu? What --

11          **MR. HINNEFELD:** I'd have to get --

12          **MR. GRIFFON:** We've been talking about that for  
13 a long time. Is that the -- is that in Jim  
14 Neton's or --

15          **MR. HINNEFELD:** Yeah, I believe it's in Jim's -  
16 - it's on his -- Jim's list, along with  
17 ingestion, so I think it's in that.

18          **MR. GRIFFON:** 'Cause these are pretty global --  
19 you know, --

20          **MR. HINNEFELD:** Well, actually -- it's in TIB-  
21 70.

22          **DR. MAURO:** I was just about to say that, we --

23          **MR. HINNEFELD:** It's in TIB-70 and --

24          **DR. MAURO:** -- you're going to be seeing --

25          **MR. HINNEFELD:** -- it's in procedures.

1           **MS. MUNN:** Well, we're going to be talking --  
2           **DR. MAURO:** -- you're going to see --  
3           **MS. MUNN:** -- about it tomorrow.  
4           **DR. MAURO:** -- next -- Hans is just about done  
5           reviewing --  
6           **MS. MUNN:** Yeah, yeah.  
7           **DR. MAURO:** -- and we just talked about it  
8           yesterday, and the biggest criticism of TIB-70,  
9           which you ha-- is the ten to -- one of the --  
10          is this ten to the minus six --  
11          **MS. MUNN:** The resuspension factor --  
12          **DR. MAURO:** -- resuspension factor --  
13          **MS. MUNN:** -- right.  
14          **DR. MAURO:** -- which is --  
15          **MR. GRIFFON:** So it's in TIB-70, is that --  
16          **MR. HINNEFELD:** (Unintelligible) procedures  
17          review.  
18          **MS. MUNN:** Yeah, but it's --  
19          **MR. GRIFFON:** TIB-70 addresses what?  
20          **MR. HINNEFELD:** Resuspension.  
21          **MS. MUNN:** Resuspension.  
22          **DR. MAURO:** Well, post -- post-AWE --  
23          **MR. HINNEFELD:** Yeah, residual.  
24          **DR. MAURO:** -- residual radioactivity --  
25          **MR. GRIFFON:** Residual radioactivity.

1           **MR. HINNEFELD:** Okay, for the residual  
2           radioactivity period --

3           **DR. MAURO:** Right.

4           **MR. HINNEFELD:** -- part of which is  
5           resuspension.

6           **DR. MAURO:** And the fundamental part is how to  
7           get the airborne activity --

8           **MS. MUNN:** Right.

9           **DR. MAURO:** -- and if you know what the  
10          activity on the surface, how do you figure how  
11          much is in the breathing zone --

12          **MS. MUNN:** Yeah, it's --

13          **DR. MAURO:** -- and that's where the  
14          resuspension factor comes in.

15          **MS. MUNN:** It's on the docket for tomorrow.

16          **MR. GRIFFON:** So --

17          **MS. MUNN:** It's an update.

18          **MR. HINNEFELD:** So then in terms of --

19          **MR. GRIFFON:** So is 104.4 a residual ra-- I  
20          mean would this be a TIB-70 issue or -- or is  
21          this resuspension not during a -- I mean, you  
22          tell me, is this a TIB-70? Am I saying this is  
23          being covered in TIB-70?

24          **MR. HINNEFELD:** I think this must be a residual  
25          question. Let me see -- let me pull that up --



1           they're -- yeah, it is -- it does have, like  
2           John said --

3           **DR. MAURO:** Yeah, it -- we --

4           **MR. GRIFFON:** -- wide-ranging effects.

5           **DR. MAURO:** The -- I -- I'm going to take  
6           something back. There might be certain sites  
7           where ten to the minus six was used also --

8           **MR. GRIFFON:** Yeah.

9           **DR. MAURO:** -- during operations. Other words,  
10          if there was an interest in what might be the  
11          dust loading from resuspension during operation  
12          -- I'm not -- I -- I really don't want to rule  
13          that out.

14          **MR. GRIFFON:** Yeah, I know. Tell me -- I mean  
15          -- for instance, tell me the difference between  
16          104.4 and 104.5, 'cause one says post-operation  
17          inhalation and the other one does not say post-  
18          operation inhalation. The sec-- the 104.5  
19          definitely looks like residual to me. The  
20          other one, I'm not sure.

21          **MR. HINNEFELD:** Yeah, 104.5 relates to what  
22          contamination level you start -- I think.

23          **DR. MAURO:** Yeah.

24          **MR. HINNEFELD:** The -- I'll have to -- let me  
25          take a minute here, I've got to find my

1 reports.

2 (Pause)

3 **UNIDENTIFIED:** (Off microphone) And it's  
4 referring to (unintelligible).

5 **MR. HINNEFELD:** Four does?

6 **UNIDENTIFIED:** (Off microphone) Yeah, it's an  
7 exception (unintelligible).

8 **MR. GRIFFON:** Oh, rather than the resusp--

9 **UNIDENTIFIED:** (Off microphone) Subsequent  
10 determination.

11 (Whereupon, a number of participants spoke  
12 simultaneously.)

13 **DR. MAURO:** (Unintelligible) subsequent --  
14 subsequent determination, so this is -- this is  
15 post (unintelligible).

16 **MR. GRIFFON:** The microphones are still  
17 working, we've just got a few side --

18 **MR. HINNEFELD:** Looks like you're right, Mark,  
19 it might be during rolling for 3.-- or 104.4.

20 **DR. MAURO:** Yes --

21 **MR. HINNEFELD:** We got our sampling data.

22 **DR. MAURO:** Yeah, that -- yeah, but there --  
23 well, we br-- in the -- the discussion we're  
24 having there are two places where resuspension  
25 comes up. The first one is an issue that

1           resuspension comes up as relates to during  
2           rolling operations, what the resuspension  
3           exposures might be 'cause there's -- there's  
4           residual activity produced during rolling  
5           operations.

6           And then the next one is after termination of  
7           rolling, so I --

8           **MR. HINNEFELD:** So are we talking about between  
9           rolling days?

10          **DR. MAURO:** Yes. You know what it was?

11          **MR. GRIFFON:** Just like a --

12          **DR. MAURO:** And the -- and remember --

13          **MR. HINNEFELD:** During the operational period -  
14          -

15          **MR. GRIFFON:** -- right --

16          **MR. HINNEFELD:** -- between rollings.

17          **DR. MAURO:** Between rollings.

18          **MR. HINNEFELD:** Okay.

19          **DR. MAURO:** There it is.

20          **MR. GRIFFON:** That's what I thought.

21          **DR. MAURO:** There it is.

22          **MR. HINNEFELD:** Okay. Well, I think, though --

23          **MR. GRIFFON:** So it's still sort of a --

24          **MR. HINNEFELD:** It's still --

25          **MR. GRIFFON:** -- residual --

1           **MR. HINNEFELD:** -- it's still a residual  
2 situation.

3           **MR. GRIFFON:** They probably both fall under  
4 TIB-70 is what I'm getting at. I mean --

5           **MR. HINNEFELD:** Yeah, it's still a residual  
6 situation, even though they rolled more later.

7           **DR. MAURO:** Yeah, thi-- this is sort of an  
8 unusual circumstance where you have a weekend -  
9 - you're doing rolling, during the week you're  
10 not doing rolling, and then you roll again --

11           **MR. GRIFFON:** Which happened at quite a few of  
12 these places, too, yeah. Okay. So 104.4 and  
13 .5 are going to the procedures workgroup. I  
14 closed them out, Wanda.

15           **MS. MUNN:** Thank you. I'll see if I can get  
16 them back.

17           **MR. GRIFFON:** Okay, 104.6 -- this is ingestion.  
18 Now is there a new TIB for this one?

19           **MR. HINNEFELD:** Well, there was a technical  
20 report that's supposed to be written.

21           **MR. GRIFFON:** So -- so it's a white paper  
22 technical report?

23           **MR. HINNEFELD:** Yeah, it's a global issue.

24           **MR. GRIFFON:** Okay.

25           **DR. MAURO:** Now there's OTIB-9 where you talk

1 about that --

2 **MR. HINNEFELD:** Okay.

3 **DR. MAURO:** -- where -- but it's my  
4 understanding that still -- that was 2004.

5 **MR. HINNEFELD:** Oh, okay. Well, that would  
6 predate this whole discussion, so --

7 **DR. MAURO:** Okay, so -- so this new material --  
8 so there is a re-- a global issue here.

9 **MR. HINNEFELD:** Yeah, Jim, you know, presented  
10 this and I submitted this at one -- one of  
11 these meetings, Jim presented at a workgroup --  
12 at a Board meeting, you know, some information  
13 relevant to this, he said. So this is kind of  
14 his and (unintelligible) said well, we ought --  
15 we need to put this in a technical paper and --  
16 of some sort, whether it's a TIB or whatever,  
17 and yeah, that's not been (unintelligible).

18 **MR. GRIFFON:** Yet to be formalized or whatever.

19 **MR. HINNEFELD:** Yeah, it's -- right now it's  
20 just a PowerPoint presentation and there's  
21 probably additional detail that needs to go  
22 into it.

23 **MR. GRIFFON:** And the -- and the -- since it's  
24 a technical paper, I'm just wondering just --  
25 just --

1           **MR. HINNEFELD:** Well --

2           **MR. GRIFFON:** -- just disposition --

3           **MR. HINNEFELD:** Well, it's a general technical  
4           -- technical document is a general term we use  
5           --

6           **MR. GRIFFON:** Yeah.

7           **MR. HINNEFELD:** -- to describe a TIB or a  
8           procedure or a site profile or --

9           **MR. GRIFFON:** So I mean I wonder if it should  
10          fall under procedures workgroup or if it would  
11          stay here or --

12          **MR. HINNEFELD:** In terms of the -- the generic  
13          --

14          **MR. GRIFFON:** In terms of us looking at it,  
15          yeah.

16          **MR. HINNEFELD:** Yeah, I suppose it's probably -  
17          - it'd be more -- it would be I guess better  
18          procedures workgroup --

19          **MR. GRIFFON:** Yeah.

20          **MR. HINNEFELD:** -- but all we say here is a  
21          generic issue and we -- there's no suggestion  
22          on our part where it gets resolved.

23          **MR. GRIFFON:** Right.

24          **MR. HINNEFELD:** That's kind of up to you guys  
25          to --

1           **MR. GRIFFON:** I mean my sense would be that it  
2           is -- it is a --

3           **MR. HINNEFELD:** Would be more procedure-like  
4           than dose reconstruction.

5           **DR. WADE:** And fortunately we have the chair of  
6           the procedures group right here.

7           **MR. HINNEFELD:** Sorry.

8           **MS. MUNN:** I don't know whether that's  
9           fortunate or not.

10          **DR. WADE:** Fortunate for us.

11          **MS. MUNN:** Hmm.

12          **MR. GRIFFON:** Wanda, you want this future  
13          document? Well, you know, the other thing is  
14          that we -- I -- I think we -- you know, getting  
15          back to SC&A's role in this, we -- you know,  
16          before we pull a TIB into the procedures  
17          workgroup, we usually task SC&A to look at it,  
18          and we haven't ta-- you know, this isn't even  
19          developed so we're getting maybe ahead of  
20          ourselves, but I would anticipate this would  
21          sort of belong there, so we'll --

22          **MS. MUNN:** Reluctantly, probably.

23          **MR. GRIFFON:** -- we'll put kind of a place-  
24          holder for that and I think that's where it's  
25          going to go. Okay.

1 104.7, and this is the --

2 **MR. HINNEFELD:** OTIB.

3 **UNIDENTIFIED:** 53.

4 **MR. HINNEFELD:** That's -- get it right.

5 **MR. GRIFFON:** This is TIB-53?

6 **MR. HINNEFELD:** Right.

7 **MR. GRIFFON:** And it's not -- it's not -- it's  
8 still not out?

9 **MR. HINNEFELD:** Correct.

10 **MR. GRIFFON:** Well, when it is, it is another  
11 TIB.

12 **MR. HINNEFELD:** Yeah.

13 **MR. GRIFFON:** Okay, so I got the same note on  
14 that, for procedures workgroup.

15 Now we're on to 105, and I think we're getting  
16 on to the one Stu was talking about.

17 **MR. HINNEFELD:** Okay.

18 **MR. GRIFFON:** Again, I'm going through this to  
19 look mainly for the redlines, comments --  
20 comments that were added. If there's any other  
21 com-- you know, anything I'm missing going  
22 along that wasn't resolved, please let me know.  
23 I'm up to 105.5, and maybe I'll just turn that  
24 over to either Stu or -- or Doug. Well, I  
25 guess, Stu, since you put this comment in --

1           **MR. HINNEFELD:** Yeah.

2           **MR. GRIFFON:** -- it would make sense for you to  
3 introduce it.

4           **MR. HINNEFELD:** This finding related to the  
5 fact that surrogate organ use -- this is  
6 esophageal --

7           **MR. GRIFFON:** Yeah.

8           **MR. HINNEFELD:** -- esophageal cancer --

9           **MR. GRIFFON:** Yeah, I think it's multip--

10          **MR. HINNEFELD:** -- surrogate -- surrogate organ  
11 for the medical X-ray was lung, but it was  
12 supposed to be -- it was supposed to be like  
13 the male or female, and it was the other one.  
14 You know, the dose reconstructor used the wrong  
15 one. I'm a little confused on which it was  
16 supposed to be, but the one it was supposed to  
17 use would have been somewhat higher. And so --  
18 and that is correct, the -- the dose it should  
19 have used -- you know, the finding is correct  
20 for that. There have been subsequent, though,  
21 refinements of the SRS site profile that  
22 adjusts both values downward, so that the -- if  
23 you were to do it today, using the correct  
24 gender's lung dose, it would still be somewhat  
25 lower than what was done in the dose

1 reconstruction.

2 **MR. GRIFFON:** The thing that I -- the note I  
3 have for this entire case was that the entire  
4 case was under -- under re-evaluation as part  
5 of a PER review.

6 **MR. HINNEFELD:** Probably is --

7 **MR. GRIFFON:** Yeah.

8 **MR. HINNEFELD:** -- considering --

9 **MR. GRIFFON:** It's a Savannah River.

10 **MR. HINNEFELD:** -- the site it came from,  
11 probably is. So it would be reworked, with all  
12 the new site profile information in it.

13 **DR. MAURO:** Mark, by way of just your protocol,  
14 when that occurs, where a particular case is  
15 being re-evaluated as part of a PER, is it  
16 still something that is -- is -- does it move  
17 out of here as closed or something that we  
18 would call in abeyance if we were doing  
19 procedures? Other words, how -- how -- in  
20 terms of tracking, I'm not sure if there's been  
21 agreement on what -- what we're going to label  
22 that and would -- and if there's any future  
23 action the work-- the subcommittee might have  
24 relating to that matter once -- say the -- the  
25 PER is issued, the work is done, the re-- would

1           that become a PER -- that would have to be  
2           triggered if that was something you'd want  
3           reviewed -- you see what I'm --

4           **MR. GRIFFON:** Yeah.

5           **DR. MAURO:** -- it's the boundary between --

6           **MR. HINNEFELD:** That's a -- kind of an  
7           interesting question because it would be --  
8           well, the time it would be reviewed -- when it  
9           is reworked, re-adjudicated, a new answer was  
10          back, that would be the time when it would be  
11          available for the Advisory Board to review  
12          because then it's no longer an active case.  
13          And there will be a lot of these. I mean if  
14          you want to think about making it a point of  
15          going back and finding all the ones that were  
16          reworked during by P-- that you reviewed --

17          **MR. GRIFFON:** Right.

18          **MR. HINNEFELD:** -- and then were reworked by  
19          PER, and pulling those back again and saying  
20          okay, based on the PER, how much -- you know,  
21          did -- is it done correctly now --

22          **MR. GRIFFON:** Yeah, yeah.

23          **MR. HINNEFELD:** -- that kind of thing. So I'll  
24          just leave it to you. I mean there will be a  
25          lot --

1           **MR. GRIFFON:** Yeah, I know --

2           **MR. HINNEFELD:** -- 'cause there have been a lot  
3 of PER returns and we've seen a lot on these  
4 reviews where these are being reworked under  
5 PERs, and so that's a huge population to try to  
6 deal with. Is there more value in that than  
7 say in a random selection of that case, or a  
8 selection of that case just as part of the  
9 normal selection process. Those are things I  
10 think for you guys to think about --

11          **MR. GRIFFON:** Yeah.

12          **MR. HINNEFELD:** -- and maybe before we try to  
13 come to close on -- you know, a decision here -  
14 -

15          **DR. MAURO:** PERs are in the procedures group  
16 right now.

17          **MS. MUNN:** Yeah, they're sort of --

18          **DR. MAURO:** We've been -- we've been --

19          **MS. MUNN:** -- they're sort of broken out as a  
20 separate --

21          **DR. MAURO:** Separate --

22          **MS. MUNN:** -- entity, and it's --

23          **MR. GRIFFON:** The PERs themselves, you're  
24 saying --

25          **DR. MAURO:** The PER --

1           **MS. MUNN:** Yeah.

2           **DR. MAURO:** -- the whole pro-- because we did  
3 one, we did the --

4           **MS. MUNN:** Right.

5           **DR. MAURO:** -- thoracic lymphoma --

6           **MS. MUNN:** Correct.

7           **DR. MAURO:** -- and delivered a report --

8           **MS. MUNN:** Correct.

9           **DR. MAURO:** -- and that's -- I think it was  
10 under your purview.

11          **MS. MUNN:** Yes, I think so, too.

12          **MR. GRIFFON:** But when you say you've done  
13 that, John, you did -- you reviewed the -- what  
14 did you review? You didn't review --

15          **DR. MAURO:** Oh, I'll tell you exac-- we  
16 reviewed --

17          **MR. GRIFFON:** -- specific cases from --

18          **DR. MAURO:** -- and we picked three cases.

19          **MR. GRIFFON:** You picked three, right.

20          **DR. MAURO:** Right, so it wasn't that we did all  
21 -- I mean ob-- obviously --

22          **MR. HINNEFELD:** Not going to do them all.

23          **DR. MAURO:** -- there's 5,000 --

24          **MR. GRIFFON:** No, right, right --

25          **DR. MAURO:** -- in other wor-- I mean 500, so --

1           **MR. HINNEFELD:** (Unintelligible) about those,  
2 but there's well over a thousand --

3           **MR. GRIFFON:** For the super S, yeah.

4           **DR. MAURO:** -- I -- we -- we've got an  
5 interesting bridge that we're trying to build  
6 that, you know -- you know, you have a  
7 particular case whose resolution will be part  
8 of a bigger umbrella, under PER, in theory it  
9 could go into a part of a PER process, but we  
10 may not actually look at that case. We may  
11 look at some other sample from the big  
12 umbrella. So it's -- the -- the boundaries  
13 here are a little vague.

14           **DR. WADE:** I think the important thing, though,  
15 is to not lose the information. Let's say that  
16 the subcommittee punts a number of issues to  
17 procedures and they're looked at as -- and the  
18 case is looked at as part of a PER. I think  
19 it's important to keep that information  
20 resident in the matrix somewhere so that at  
21 some point you go back and do a roll-up and see  
22 just how much of that there is, and then the  
23 subcommittee or the Board could decide it wants  
24 to investigate and see how that -- that has  
25 played out. So as long as you keep that, and I

1 think it will be kept in the matrix, as I  
2 understand it.

3 **MR. GRIFFON:** See, I -- I think there -- yeah,  
4 I think we might have to look at this -- in the  
5 subcommittee's role, anyway -- almost case-by-  
6 case because, you know, the ones that I -- I  
7 can remember, and these were not necessarily  
8 re-evaluations done for PER reasons, but these  
9 were re-evaluations I think kind of as a result  
10 of our review --

11 **MR. HINNEFELD:** I think -- yeah, we've done  
12 some of those.

13 **MR. GRIFFON:** -- right? And -- but in those  
14 cases, as you've said, Stu, many times when you  
15 go to re-evaluate these cases, you look at it  
16 all across the board, you don't just look at  
17 the one from the finding.

18 **MR. HINNEFELD:** Right.

19 **MR. GRIFFON:** So -- so all -- a lot of things  
20 are going to change. And I would say the ones  
21 that the subcommittee's probably most  
22 interested in is the ones between 45 and 50  
23 where it went -- underwent a PER review and you  
24 reassessed the entire case and, you know, I  
25 think tho-- you know, so we might be able to

1 narrow our field that way, you know, and say  
2 let's -- let's not re-look at all these cases  
3 but let's re-look at some that were, you know,  
4 borderline, that had some findings before and,  
5 you know, we go back at them that way. That  
6 may be a possible way to --

7 **MR. HINNEFELD:** You want to think about that  
8 for another-- a new selection round maybe? Is  
9 that what you're thinking, or --

10 **MR. GRIFFON:** Well, not -- but to go back to  
11 that case, that specific case, not to just  
12 randomly get it.

13 **MR. HINNEFELD:** Okay, but ones that were on  
14 here already --

15 **MR. GRIFFON:** Right.

16 **MR. HINNEFELD:** -- that were between 45 and 50  
17 and then were reworked.

18 **MR. GRIFFON:** Right.

19 **MR. HINNEFELD:** Okay.

20 **MR. GRIFFON:** So some that -- what I'm saying  
21 is some -- if they were on here -- this is just  
22 -- just a -- a possibility is what I'm  
23 offering, is that -- I don't think we want to  
24 re-look at every case that underwent PER review  
25 because, like you're saying, there's going to

1 be a lot of them.

2 **MS. MUNN:** We can't.

3 **MR. GRIFFON:** Right.

4 **MS. MUNN:** That will be physically impossible.

5 **MR. GRIFFON:** Plus there's that -- there's  
6 going to be a long -- a significant time delay,  
7 too.

8 **MR. HINNEFELD:** Yeah.

9 **MR. GRIFFON:** You know, I mean, we're  
10 (unintelligible) look at this case a year later  
11 or something. But for those -- to keep an eye  
12 on, like, as Lew said, to track these and --  
13 and the ones that -- I think it might be  
14 worthwhile to go back to some smaller subset of  
15 those that we've -- you know, we've had some  
16 findings with in the initial round, they were  
17 between 45 and 50 percent POC, therefore  
18 they're -- they're of a particular interest to  
19 this group and we want to see how the -- you  
20 know, mod-- when the modifications were made,  
21 how -- how it affected the case. So I think to  
22 go back to those cases might be worthwhile.

23 **DR. WADE:** It'd be reasonable for the  
24 subcommittee periodically at a meeting --

25 **MR. GRIFFON:** There's not a big set that way,

1           either, you know.

2           **DR. WADE:** -- just look at, you know, how many  
3           of those have been redone and decide if you  
4           want to go back and look at them. I mean as  
5           long as the information's in front of you --

6           **MR. GRIFFON:** Right.

7           **DR. WADE:** -- you can make rational decisions.

8           **MR. GRIFFON:** Right.

9           **MS. MUNN:** Do we have an electric sort -- an  
10          electronic sort that we can --

11          **MR. GRIFFON:** Well, yeah, we're -- we're --

12          **MR. HINNEFELD:** We --

13          **MS. MUNN:** -- do on this matrix that would give  
14          us that --

15          **MR. GRIFFON:** Yeah, we're putting this all in  
16          the -- in the -- and we're not discussing it  
17          today, but we're putting all this in a  
18          database, same as you're -- very similar to  
19          what Steve has set up --

20          **DR. MAURO:** So in effect you're -- you want to  
21          assign some label to some -- this is -- later  
22          on, at any time, you could sort on that label  
23          and say okay, how many cases do we have right  
24          now that --

25          **MR. GRIFFON:** Like if we say a case --

1           **DR. MAURO:** -- we could place into this box.

2           **MR. GRIFFON:** -- being re-evaluated under PER  
3 review --

4           **DR. MAURO:** Right, and then -- then you bring  
5 them up --

6           **MR. GRIFFON:** Yeah, you find all of those --

7           **DR. MAURO:** -- so -- and then it becomes  
8 something that's --

9           **MR. GRIFFON:** Right.

10          **DR. MAURO:** -- readily tractable once we  
11 automate it.

12          **DR. WADE:** But the key piece of information  
13 would be -- let's say you have that field  
14 assigned to PER review. Will you go back in  
15 and enter into the field when that case has  
16 been redone?

17          **MR. HINNEFELD:** We can run this query ourselves  
18 out of our NOCTS database. We can find the ca-  
19 - the cases you described to me, 45 percent POC  
20 -- 45 to 50 percent POC that have -- that have  
21 been reviewed by the -- the subcommittee that  
22 have subsequently been worked by --

23          **MR. GRIFFON:** Yeah, you have all that already,  
24 right.

25          **MR. HINNEFELD:** -- reworked and is now once

1 again available for review, we can do that.

2 **MS. MUNN:** Great.

3 **MR. HINNEFELD:** We can -- we can find those.

4 So --

5 **MR. GRIFFON:** And then can we --

6 **MR. HINNEFELD:** -- so rather than build --  
7 there's tracking database to keep track of this  
8 --

9 **MR. GRIFFON:** But we should be able to match  
10 them to our case numbers, too.

11 **MR. HINNEFELD:** Yeah.

12 **MR. GRIFFON:** Right? And we have that --

13 **MR. HINNEFELD:** Yeah.

14 **MR. GRIFFON:** -- so...

15 **MR. HINNEFELD:** Yeah.

16 **DR. WADE:** But that would take a request from  
17 the subcommittee to you to do that.

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

19 **MR. HINNEFELD:** Yeah, well --

20 **MR. GRIFFON:** But it's not difficult. Right?  
21 You can --

22 **DR. WADE:** That's right, that's right.

23 **MR. HINNEFELD:** It's easy for me, I don't have  
24 to do it. I tell the people to do it and they  
25 write the query and they find it, and so --

1           **DR. WADE:** So the subcommittee needs to  
2           consider asking this question periodically,  
3           that's --

4           **MR. GRIFFON:** But what I'm hearing also is that  
5           Stu's saying that the -- the -- the database  
6           exists to do this, we don't have to --

7           **MR. HINNEFELD:** Yes.

8           **MR. GRIFFON:** -- recreate the wheel to do it.

9           **MR. HINNEFELD:** Yes.

10          **MR. GRIFFON:** Right? So...

11          **MS. MUNN:** So then our question becomes how  
12          often do we look at this and what do we do with  
13          it when we do look at it, because I think the  
14          question that John was asking --

15          **MR. GRIFFON:** Right.

16          **MS. MUNN:** -- and it's one that bothers me, is  
17          where are the parameters that we set with  
18          respect to how long do we go on with this  
19          review and re-review business --

20          **MR. GRIFFON:** Right.

21          **MS. MUNN:** -- especially once the PER has been  
22          completed. And that's --

23          **MR. GRIFFON:** Well, and that's why I -- that's  
24          what I was proposing was one -- one proposal,  
25          anyway, of looking at the ones that fell

1                   between a certain POC and were PER reviewed.  
2                   That's one option. And I think you'll find  
3                   right now, if you went back to the first 100  
4                   cases, you'd find what, two? You know, three  
5                   maybe.

6                   **MS. MUNN:** Maybe.

7                   **MR. GRIFFON:** Maybe. I mean I don't even think  
8                   that many.

9                   **MS. MUNN:** All right, I don't (unintelligible).

10                  **MR. GRIFFON:** So you know, it's not a large  
11                  number. It's going to keep our population down  
12                  I think if we do it that way.

13                  **MR. HINNEFELD:** Yeah, if you restrict that  
14                  initial POC --

15                  **MR. GRIFFON:** Yeah.

16                  **MR. HINNEFELD:** -- if you restrict the initial  
17                  POC, that -- that will keep the population  
18                  down. Now realistically, if we went back now  
19                  and looked at the first 100 cases, there be --  
20                  there may be quite a lot of those that have  
21                  subsequently been determined PER --

22                  **MR. GRIFFON:** Right.

23                  **MR. HINNEFELD:** -- but maybe that never came up  
24                  during discussion.

25                  **MR. GRIFFON:** How many were -- were returned

1 and are in -- in between 45 to 50? I mean we  
2 know --

3 **MR. HINNEFELD:** There -- there should not be --  
4 there will not be a --

5 **MR. GRIFFON:** -- I just did that report. We  
6 know --

7 **MR. HINNEFELD:** -- huge population.

8 **MR. GRIFFON:** -- only five percent were in --

9 **MR. HINNEFELD:** Yeah.

10 **MR. GRIFFON:** -- 45 to 50, so --

11 **MS. MUNN:** Yeah, right, and then the number of  
12 those that we've reviewed was smaller still, so  
13 if we're going to be tracking the information -  
14 - the data from this particular set, or any  
15 particular set, then we are not going to review  
16 any mass of PER data that comes back to us that  
17 might be associated with it in some way. We  
18 would only be focusing on the cases that were  
19 in the sets we have reviewed.

20 **MR. GRIFFON:** Right. Right.

21 **DR. WADE:** Could -- could the subcommittee say  
22 to you now, of those first 100 cases, how many  
23 have been reworked, and then how many fall  
24 within some boundary?

25 **MR. HINNEFELD:** Of the first 100?

1           **DR. WADE:** Yeah.

2           **MS. MUNN:** Uh-huh.

3           **MR. HINNEFELD:** Yeah, I mean it'll take me a  
4           whi-- I mean I --

5           **DR. WADE:** I'm not saying now.

6           **MR. HINNEFELD:** -- can't -- I can't do this. I  
7           have to get our TST to write the query and find  
8           that stuff, but yeah. I mean if you want to do  
9           that, we can do that.

10          **DR. WADE:** Yeah, then the subcommittee can ask  
11          that question when it wants to.

12          **MR. HINNEFELD:** Well -- and -- and when you --  
13          when you ask me, if you ask me to do this, I  
14          want to make sure we're clear on whether you  
15          want ones that were only reworked for PER  
16          reasons, or ones that were reworked, you know,  
17          for any reason -- because there have been times  
18          when a case has been reopened by the Department  
19          of Labor for the changes in the demographic or  
20          -- or cancer information. You know, either --  
21          it's usually changes in the employment or  
22          cancer information, and -- and they'll be sent  
23          back, reopened, and those will be reworked as  
24          well, so -- and we do the same thing with  
25          those. We get one of those back, it's done in

1           accordance with the current -- all the current  
2           guidance, so it's another population of these  
3           things we can go through. But you know -- and  
4           we can find those separate from the PER  
5           returns, I believe.

6           **MR. GRIFFON:** Yeah.

7           **MR. HINNEFELD:** So just something for you guys  
8           to decide.

9           **MR. GRIFFON:** We can find this out -- maybe in  
10          between meetings at some point we can do some  
11          queries and bring them back to the subcommittee  
12          and look at it and -- and see what we want to  
13          do, you know.

14          **MR. HINNEFELD:** Sure.

15          **MR. GRIFFON:** We don't have to firmly set our  
16          criteria now --

17          **MR. HINNEFELD:** That's right.

18          **MR. GRIFFON:** -- if we realize our window's too  
19          large --

20          **MR. HINNEFELD:** Yeah.

21          **MR. GRIFFON:** -- and we're getting too many  
22          cases to redo later --

23          **MR. HINNEFELD:** Yeah.

24          **MR. GRIFFON:** -- I think we're going to --  
25          we'll want to rethink it, so --

1           **MR. HINNEFELD:** Sure.

2           **MR. GRIFFON:** -- you know.

3           **DR. MAURO:** I'm sorry -- see, we have a very  
4           limited number of cases, really. In the grand  
5           scheme of things, the number of cases we're  
6           reviewing --

7           **MR. GRIFFON:** Right.

8           **DR. MAURO:** -- is relatively small, about 200.

9           **MS. MUNN:** By design.

10          **DR. MAURO:** By design, two and a half percent  
11          if we reached our (unintelligible) nowhere near  
12          that, anyway. We're closer to one percent.

13          **MS. MUNN:** Correct.

14          **DR. MAURO:** But let's say we -- now what we're  
15          really saying here is along the way of closing  
16          out issues on each case, some of them we can't  
17          close out right now. But in principle, at some  
18          time in the future, there's a process taking  
19          place -- whatever that process is, including  
20          PER, including whatever -- there is a  
21          commitment that has been made on the part of  
22          the program to revisit this particular issue,  
23          so it's not possible to close it out at this  
24          time. So in my mind, from the point of view of  
25          this database, that's all you really need. You

1           need some kind of pointer or -- or -- or  
2           indicator that there's a -- here is a case that  
3           was reviewed, an issue that's been raised, and  
4           as of -- as of this date, there are steps being  
5           taken to fix this problem -- and it may be one  
6           of many different ways in which that could  
7           occur. But I think it's important that it be  
8           in the database that we know that that's the  
9           status of that issue and --

10       **MR. GRIFFON:** Yeah, and that's fine, we're --  
11       I'm --

12       **DR. MAURO:** -- and that could be just like --

13       **MR. GRIFFON:** -- we've got -- we're capturing  
14       that. We're capturing it.

15       **DR. MAURO:** Right now we call that in abeyance  
16       --

17       **MS. MUNN:** Uh-huh, correct.

18       **DR. MAURO:** -- you know, and -- and -- and now  
19       -- you want -- whatever term you want to call --  
20       - this way you never lose it, and you could  
21       always sort later, say okay, how many -- how  
22       many cases or issues do we have in our database  
23       that are still sort of in this limbo state --

24       **MS. MUNN:** In abeyance.

25       **DR. MAURO:** -- and -- and --

1           **MR. GRIFFON:** We're cap-- we're cap--

2           **DR. MAURO:** -- and you bring it right up and --

3           **MR. GRIFFON:** Yeah, we're --

4           **DR. MAURO:** -- you decide at that time what do  
5 you want to do about it.

6           **DR. WADE:** And then periodically you can then  
7 ask the next question, which is what happened  
8 to those cases.

9           **MR. GRIFFON:** We got it, we got it. The one  
10 thing I -- I want to caution, and some-- 'cause  
11 sometimes I think on some of our case reviews  
12 when a case is being re-evaluated for PER  
13 review, I want to make sure that -- that the --  
14 there's a list of findings. I want to make  
15 sure all the findings are addressed except for  
16 the one related to the PER review, if that  
17 makes any sense -- to the extent we can, Stu,  
18 because I think sometimes we say well, this  
19 case is being reworked anyway. I'm not sure  
20 that -- you know, I think we want to answer --  
21 technically answer the finding in front of us  
22 as best we can. Like if there's a finding  
23 related to dose conversion factor, obviously  
24 that -- there's a PER question directly related  
25 to the finding, that's fine. If there's a --

1           you know, for super S, it's directly related to  
2           the finding, that's fine. But if there's --  
3           you know, other findings, I think we should  
4           answer them the best we can. We can still note  
5           that the entire case is going into PER review,  
6           but we should make sure we try to answer the --  
7           the finding -- you know, close out the -- the  
8           other findings. You could -- does that make  
9           sense?

10          **DR. MAURO:** Yes.

11          **MR. HINNEFELD:** Yeah. I -- I mean I just have  
12          to envision -- I'll have to look at some  
13          specific examples to get my head around how  
14          we're -- how we can do that.

15          **MS. MUNN:** Yeah, how --

16          **DR. MAURO:** Well, you could almost envision --  
17          let's say you have a Savannah River case that's  
18          being -- that -- say that we have a PER going  
19          that's going to affect a large number of  
20          Savannah River cases. When you get -- and  
21          let's say we have a case here where in that  
22          case we have a number of comments, there may be  
23          seven or eight comments. Of course on one tier  
24          we're saying but wait a minute, this is under  
25          our PER, great. So that's important to know.

1           But then when you get inside the tier you say  
2           but wait a minute, a couple of these comments  
3           deal with some global issues that -- that --  
4           that are identified, maybe it's ingestion,  
5           whatever it is. So I don't know if you want to  
6           lo-- you don't want to lose that. So I agree  
7           without -- I guess what I -- I think I  
8           understand what -- what Mark was saying is  
9           within the overall idea that, listen, even  
10          though we're going to be reviewing this case  
11          under the broader umbrella of a PER for  
12          Savannah River, there are issues that are  
13          imbedded in it that get into a higher  
14          granularity that you don't want to lose track  
15          of. That is, you know, it -- it -- you're  
16          going to review it, but that particular issue  
17          is -- is -- is being dealt with as a global  
18          issue under the ingestion piece. Under a  
19          higher scale, yeah, we're looking at the whole  
20          case under a PER, for -- for broader reasons,  
21          so I -- I think that -- so the case itself, in  
22          a way, might be something that's being  
23          revisited under a PER, the overall, but there  
24          are issues within that case that are being also  
25          reviewed, maybe on a generic basis, on this --

1           there's some -- some global reasons.

2           **MR. HINNEFELD:** Or it's -- there could be a  
3           specific finding on the case about -- there  
4           could be some comment about years --

5           **DR. MAURO:** Years -- years of --

6           **MR. HINNEFELD:** -- internal exposure that were  
7           assumed based on the bioassay data.

8           **DR. MAURO:** Yeah.

9           **MR. HINNEFELD:** You know, that -- that finding  
10          comes up on occasion.

11          **DR. MAURO:** Right.

12          **MR. HINNEFELD:** The dose reconstruction will  
13          choose a particular duration of exposure, and  
14          there may be a finding about that duration of  
15          exposure.

16          **DR. MAURO:** Yeah, you don't want to lose that  
17          granularity.

18          **MR. HINNEFELD:** And -- and so --

19          **DR. MAURO:** You want to keep that granularity.

20          **MR. HINNEFELD:** I mean I'm just trying to --  
21          I'm just trying to figure out -- I have to talk  
22          to Scott at some point and figure out how we're  
23          going to capture these because --

24          **MS. MUNN:** This is getting really complex.

25          **MR. HINNEFELD:** -- this'll be complicated.

1           It's almost a -- it would almost serve to have  
2           a -- a sort of a supplemental comment via our  
3           comment form. Same form -- same form,  
4           different use.

5           **MR. GRIFFON:** I guess my point -- that's a good  
6           example, Stu, is that if -- if you -- you know,  
7           if you have a question about duration of  
8           internal exposure and you say well, this case  
9           is being reworked for super S anyway, and then  
10          later we decide only to take some of these PER  
11          cases, we may never look at that one again.

12          **MR. HINNEFELD:** Yeah.

13          **MR. GRIFFON:** And we -- we never answered that  
14          question of was that -- was that --

15          **MR. HINNEFELD:** Yeah, I'm not --

16          **MR. GRIFFON:** -- broad --

17          **MR. HINNEFELD:** -- worried about losing the  
18          generic --

19          **MR. GRIFFON:** Yeah, I mean that's the question.

20          **MR. HINNEFELD:** -- to be honest with you. You  
21          know, even if the case comes back out and the  
22          generic thing's not resolved, then there's a  
23          change to technique based on that resolved --  
24          that -- that generic issue, we'll go back and  
25          find all those and we'll -- we'll apply that.

1 I'm not worried about losing the generics. The  
2 ones that'll get lost are the specific -- or  
3 the task-specific, the claim-specific comments  
4 --

5 **DR. MAURO:** I agree.

6 **MR. GRIFFON:** Yeah.

7 **MR. HINNEFELD:** -- that will get lost.

8 **DR. MAURO:** And how we label it here in the  
9 database is the -- is the vehicle we're going  
10 to have available to us to make sure that  
11 doesn't happen.

12 **MS. MUNN:** Yeah.

13 **DR. MAURO:** So somehow we have to label each  
14 one of these issues in a manner that will make  
15 sure that doesn't happen.

16 **MR. HINNEFELD:** Okay, that's --

17 **DR. MAURO:** And I'm not sure of that.

18 **MR. HINNEFELD:** -- that's an issue -- I'm still  
19 working on my issue --

20 **MS. MUNN:** Yeah.

21 **MR. HINNEFELD:** -- of how we're going to do  
22 this.

23 **UNIDENTIFIED:** I think (unintelligible) comment  
24 form would work.

25 **DR. WADE:** From the matrix point of view,

1 right, you have the information --

2 (Whereupon, Mr. Griffon, Dr. Mauro and several  
3 participants spoke simultaneously.)

4 **MR. HINNEFELD:** He said -- he things use of a  
5 comment form. We have a comment form -- we  
6 review all the dose reconstructions --

7 **MR. GRIFFON:** Right.

8 **MR. HINNEFELD:** -- and we have a comment form  
9 we send -- if we have comments on dose  
10 reconstructions, right, fill out a comment form  
11 and send it back, and it's -- it's your classic  
12 comment resolution -- everybody's seen those  
13 kind of forms. So the question then becomes --  
14 you know, we could put these findings on those  
15 comment forms, and the question becomes when do  
16 we prepare that form? You see -- see where I'm  
17 coming from here?

18 **MR. SIEBERT:** (Off microphone) (Unintelligible)  
19 globals closed out (unintelligible) review  
20 (unintelligible) might work.

21 **MS. MUNN:** That would be the logical time.

22 **MR. HINNEFELD:** Well, but there's -- I mean  
23 these things occur --

24 **MR. GRIFFON:** Yeah.

25 **MR. HINNEFELD:** -- are all over the phase.

1           These reviews occur all over the life cycle of  
2           a dose reconstruction. I mean -- well,  
3           actually these reviews all occur post-closure,  
4           and so -- but -- so you're talking about all  
5           through the life cycle of the PER. Like there  
6           will be some that we'll -- we'll -- we'll see  
7           that well, we reviewed and we requested that  
8           this be sent back for PER that hasn't made it  
9           back yet. So in those cases it would be  
10          relatively simple to clip out, you know, the  
11          findings from here, put it on a comment -- a  
12          finding form, send it over as a sort of a  
13          supplemental form for when you -- when you  
14          rework this case, these comments have to be  
15          addressed. Okay? That would be something that  
16          could happen.

17          The second -- but there's another type that, by  
18          the time we review it, has already been  
19          reworked by PER, so that's where we're in  
20          danger of really losing (unintelligible).  
21          We'll have to work on it. We'll have to work  
22          on it.

23          **MR. GRIFFON:** Yeah, let's all think about that  
24          one more --

25          **DR. WADE:** You also need to work it in the --

1 in your tracking matrix.

2 **MR. GRIFFON:** Yeah.

3 **DR. WADE:** It can -- it has to appear twice in  
4 that --

5 **DR. MAURO:** (Unintelligible) the action has to  
6 (unintelligible).

7 **DR. WADE:** It has to appear twice that it's to  
8 be dealt with as part of a PER, but there are  
9 other aspects of the finding that need to be  
10 dealt with outside of the PER.

11 **DR. MAURO:** In a funny sort of way, as long as  
12 you don't close it out in this tracking matrix,  
13 you know, when it's finally automated --

14 **MR. GRIFFON:** Yeah.

15 **DR. MAURO:** -- as long as it's not closed, then  
16 you could always query the tracking sys-- says  
17 listen, please list everything that's not  
18 closed, and then -- I mean a -- I mean that --  
19 that's a -- in the simplest sense, then we say  
20 there's a reason why it's not closed. And we  
21 may find ourselves in a position of well, let's  
22 take a look, this is not closed, how come? I  
23 mean the problem really becomes, in this  
24 tracking system for this, we close it, then we  
25 ha-- when it really shouldn't be closed -- we

1           could always go back and say well, why wouldn't  
2           we close it, and then we -- it may take a  
3           little work to unravel, but it wasn't closed  
4           because of all these things we're talking  
5           about. But as long as we don't close it in  
6           here, we're never going to lose it. You know,  
7           can't slip through -- slip through the crack,  
8           but it'll be -- it'll be there --

9           **DR. WADE:** Might take some work to find --

10          **DR. MAURO:** -- haunting us.

11          **DR. WADE:** -- but that's --

12          **DR. MAURO:** Might take some work to -- now  
13          there may be things we can do in here --

14          **DR. WADE:** To make it easier.

15          **DR. MAURO:** -- to make it easier. But I think  
16          at a minimum, just don't close it.

17          **DR. WADE:** First thing, you don't want to lose  
18          the data, but secondly, you want to be able to  
19          retrieve it easily.

20          **DR. MAURO:** Qui-- quickly, exactly.

21          **MS. BEHLING:** Excuse me for just one second.

22          Would it be beneficial for SC&A, when we are  
23          doing our case reviews, to go into the NOCTS  
24          database and determine if there has been a PER  
25          completed during our review process? Would

1           that help to ensure that nothing gets lost? Or  
2           are we going beyond what we should be doing  
3           here?

4           **DR. WADE:** From my perspective, I think that at  
5           some point the subcommittee's going to have to  
6           ask for a complete search, so you'll catch it  
7           then.

8           **MR. GRIFFON:** Yeah. But usually -- I mean  
9           you've always provided that to us, Stu, that --  
10          that, you know, this one's under PER review or  
11          this one -- you know.

12          **MR. HINNEFELD:** Yeah, we can pull that. We've  
13          got that in the database --

14          **MR. GRIFFON:** Yeah.

15          **MR. HINNEFELD:** -- so that --

16          **MR. GRIFFON:** I'm not sure --

17          **MR. HINNEFELD:** -- can be pulled out.

18          **MR. GRIFFON:** -- who needs to do it, but -- but  
19          you know, usually we get it by the time we  
20          develop the matrix.

21          **MR. HINNEFELD:** As a gen-- you know, when the  
22          cases are selected for review, we make sure  
23          that there aren't any in there that are back  
24          with us for PER. We do that.

25          **MR. GRIFFON:** Right.

1           **MR. HINNEFELD:** But the issue then arises is by  
2           the time --

3           **MR. GRIFFON:** It comes up later.

4           **MR. HINNEFELD:** -- we get a resolution, others  
5           may have come back.

6           **MR. GRIFFON:** Right.

7           **MR. HINNEFELD:** Or there may be other  
8           evaluations and -- that have determined that it  
9           should come back, so...

10          **MR. GRIFFON:** Okay.

11          **MR. HINNEFELD:** We -- we'll have to puzzle on  
12          this one.

13          **MR. GRIFFON:** Yeah, we -- we can work on this a  
14          little more. That --

15          **MR. HINNEFELD:** But yeah, I'll let you guys  
16          worry about --

17          **MR. GRIFFON:** I mean the one thing I -- I -- I  
18          don't want to -- the one thing I'm concerned  
19          about with the just not being closed out in the  
20          database isn't necessarily enough if we're --  
21          if we're saying that we're not going to go back  
22          and re-review all -- all these cases. You know  
23          what I'm saying? 'Cause if some -- a lot of  
24          them are going to PER review, we've said well,  
25          we don't want to, you know, go back to these

1           specific cases a year from now and re-review  
2           every one of them necessarily.  But if -- if --  
3           you know, so then what about these other  
4           findings that were, you know, linked with that  
5           case?

6           **DR. MAURO:**  Well, as -- as long as the findings  
7           are not closed --

8           **MR. GRIFFON:**  Right.

9           **DR. MAURO:**  -- then we're always in a position  
10          to go back and sort -- say please list all the  
11          findings that were not closed in this sixth  
12          set, whatever it is, and we -- and then -- and  
13          -- so we can't lose it then.  Other words --  
14          now granted, that may not be very satisfying  
15          because you -- there are probably reasons why  
16          it isn't closed and we -- I mean it's prob--  
17          maybe it should be closed now because certain  
18          things have happened, but I mean at least, you  
19          know, until we -- I guess the -- the  
20          subcommittee is convinced that the actions have  
21          been taken, whatever venue, to close that  
22          issue, we really shouldn't close it in this  
23          box.  I guess --

24          **MS. MUNN:**  As long as we keep it in abeyance  
25          and there's something in the notes that tells

1 us why it's in abeyance --

2 DR. MAURO: Right.

3 MS. MUNN: -- then we don't have a problem.

4 MR. GRIFFON: Right.

5 MS. MUNN: We're good to go. But --

6 MR. GRIFFON: All right.

7 MS. MUNN: -- the -- not having --

8 MR. GRIFFON: I think we're all saying the same  
9 thing.

10 DR. MAURO: Yeah, we are.

11 MS. MUNN: -- not having a note --

12 MR. SIEBERT: Presupposing that you'll always  
13 go back and review the case later on, which I  
14 thought is what you said later --

15 MR. GRIFFON: That's what I was --

16 MR. SIEBERT: -- earlier that you weren't --

17 MR. GRIFFON: -- that's what I was just talking  
18 --

19 MR. SIEBERT: -- doing.

20 MR. GRIFFON: Right, that's what I was just  
21 talking about.

22 MR. SIEBERT: That's what I thought you were  
23 getting at.

24 MR. GRIFFON: Right.

25 MR. SIEBERT: 'Cause if you leave it open, you

1 always have --

2 **MR. GRIFFON:** Well, that's why I -- I started  
3 this discussion --

4 **MR. SIEBERT:** -- to add something --

5 **MR. GRIFFON:** -- about ten minutes ago saying  
6 that, you know, that's why I'd like to close  
7 out all the findings not directly associated  
8 with a PER, you know. Like if it's not a super  
9 S issue, we should try to -- to the extent  
10 possible, to close it out --

11 **MR. HINNEFELD:** Close them in this form.

12 **MR. GRIFFON:** Yeah, close them in this form,  
13 yeah.

14 **MS. MUNN:** Uh-huh.

15 **MR. GRIFFON:** Not just -- 'cause I feel like  
16 sometimes we're punting on it, we're saying  
17 well, it's under re-review anyway, let's just -  
18 -

19 **MR. HINNEFELD:** Right.

20 **MR. GRIFFON:** -- you know, push it down the  
21 road --

22 **MR. HINNEFELD:** That's right.

23 **MR. GRIFFON:** -- but we may not come back to it  
24 --

25 **MR. HINNEFELD:** That's right.

1           **MS. MUNN:** Uh-huh.

2           **MR. GRIFFON:** -- so I don't think we can push  
3 it down the road.

4           **MR. HINNEFELD:** That's right. Yeah.

5           **MR. GRIFFON:** So that -- that's all I'm saying  
6 is let's keep our eye on that kind of thing.

7           **MR. HINNEFELD:** Yeah.

8           **MR. GRIFFON:** A lot of times -- and especially  
9 in our first cut-through and at the end of the  
10 day we -- we get well, it's PER review -- PER --  
11 -- you know, case is --

12          **MR. HINNEFELD:** Well --

13          **MR. GRIFFON:** -- being re-evaluated -- we get a  
14 little hasty and we --

15          **MR. HINNEFELD:** -- we often -- yeah, we often  
16 say that in our responses when we admit the  
17 finding is valid, you know, something should  
18 have been done a particular way and we say oh,  
19 you're right, we should have done it that way --  
20 --

21          **DR. MAURO:** And we'll catch it during --

22          **MR. HINNEFELD:** -- but --

23          **DR. MAURO:** -- 'cause we're going to look at --

24          **MR. HINNEFELD:** -- well, we're catching it,  
25 we're going to redo it again with the PER, so --

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**MR. GRIFFON:** But even -- but even to say that in the matrix, that NIOSH agrees --

**MR. HINNEFELD:** Yeah.

**MR. GRIFFON:** -- it should have been done this other way, and when we do the re-evaluation under this PER review, we will do this --

**MR. HINNEFELD:** Yeah.

**MR. GRIFFON:** -- that's a commitment to do it -- you know --

**MR. HINNEFELD:** Yeah.

**MR. GRIFFON:** -- so that's -- that's -- you know, that part of it is -- is closed out, in my opinion.

**MR. HINNEFELD:** Yeah, that's what -- that's what I was thinking, yeah.

**MR. GRIFFON:** Right. I mean if you put it in the matrix and put it in writing that you're doing it that way --

**DR. MAURO:** And you would close that?

**MR. GRIFFON:** -- I -- I think I would close it, yeah. I mean we're going to go back to a fraction of the ones that were PER reviewed anyway, you know, but if they outline exactly what they're planning on doing --

1           **DR. MAURO:** Im-- im-- important to ref--

2           **MR. GRIFFON:** -- you know, in writing, I mean I  
3 think that -- you know, it's down in writing  
4 and, you know.

5           **DR. MAURO:** No, no, don't get -- I'm just -- I  
6 just want to --

7           **MR. GRIFFON:** Yeah.

8           **DR. MAURO:** -- that philosophy is not what  
9 we're doing in Task III. Other words, until  
10 the procedure has been rewritten and been  
11 corrected, it stays in abeyance.

12          **MS. MUNN:** We're holding it.

13          **DR. MAURO:** And that's fine.

14          **MR. GRIFFON:** A little different than --

15          **MR. HINNEFELD:** But looking at all of them,  
16 too.

17          **MS. MUNN:** It is different.

18          **MR. HINNEFELD:** Once it's revised, though, you  
19 guys look at --

20          **DR. MAURO:** And then we look at it, right.

21          **MR. HINNEFELD:** Yeah, so that's not proposed  
22 here.

23          **DR. MAURO:** Right.

24          **MR. HINNEFELD:** See, that -- that works if  
25 you're --

1           **DR. MAURO:** If you're going to go back.

2           **MR. HINNEFELD:** -- every one of them -- you're  
3 going to go back to every one of them.

4           **MR. GRIFFON:** Well, it's one thing to go back  
5 to each procedure; it's another to go back to  
6 every --

7           **MS. MUNN:** Every case.

8           **MR. GRIFFON:** -- individual case, you know, so  
9 --

10          **MS. MUNN:** Yeah, yeah, yeah, the individual  
11 cases are too much of a load.

12          **DR. MAURO:** 132 procedures, there are 240 dose  
13 reconstructions.

14          **MS. MUNN:** Uh-huh.

15          **DR. MAURO:** I mean --

16          **MR. HINNEFELD:** Yeah, ultimately -- ultimately.

17          **MR. GRIFFON:** Yeah, but -- but how many of  
18 those procedures are you revisiting in depth?  
19 I mean -- it may be a lot, I don't know.

20          **DR. MAURO:** No, not -- not many.

21          **MR. GRIFFON:** Not many?

22          **DR. MAURO:** Not many.

23          **MR. GRIFFON:** That's fine.

24          **DR. MAURO:** We're wait-- we're waiting for the  
25 in abeyance to be sent back --

1           **MS. MUNN:** Uh-huh.

2           **DR. MAURO:** -- you know, we did it; take a  
3 look.

4           **MS. MUNN:** Uh-huh, right.

5           **DR. MAURO:** So I -- but I may not -- you know,  
6 that's where we are right now. That's what  
7 we're doing now.

8           **MS. MUNN:** Not that bad, so far.

9           **MR. GRIFFON:** Well, that's my -- that's my  
10 point. If we're not comfortable closing one  
11 out, we'll -- we'll note it, and as long as --  
12 as everyone's said -- that we can track it,  
13 we're fine, we can decide later. I don't think  
14 we're going to want to redo all of them,  
15 though. That's the only thing, you know, so...  
16 Okay, with that little side discussion --

17           **DR. MAURO:** That always happens. Right? Can't  
18 get away --

19           **MR. GRIFFON:** -- we're getting dangerously  
20 close --

21           **DR. MAURO:** -- from this.

22           **MR. GRIFFON:** -- to the database discussion --

23           **MS. MUNN:** Well, there's no --

24           **UNIDENTIFIED:** (Unintelligible)

25           **MS. MUNN:** No, not -- it won't -- the -- the

1 whole difficulty is that we do not have a rigid  
2 process that we can follow that's gone before  
3 us. We're always plowing new ground.

4 **MR. GRIFFON:** Right, that's -- that's -- yeah.

5 **MR. CLAWSON:** Well, and each one of these are a  
6 little bit different than the other ones, so  
7 it's hard to put a clear road out there.

8 **MS. MUNN:** Yeah, it is.

9 **MR. GRIFFON:** So on -- on -- going on to 105.6  
10 then, if we can get back to the meat and  
11 potatoes -- Ray's asking what time the meat and  
12 potatoes are, I figured I'd get that on the  
13 record. We've got a little while.

14 All right. So I have that SC&A concurs with  
15 this, I -- in my previous notes I had -- had  
16 NIOSH agrees, dose was recalculated, no effect  
17 on the case -- was kind of where it was left.  
18 And then SC&A agrees with this. Is that  
19 accurate?

20 **MR. FARVER:** Correct.

21 **MR. GRIFFON:** Okay. So we got -- so -- so now  
22 this is 105.6, which the case is being  
23 reworked. You know, here's your example, but  
24 this particular finding is -- has been  
25 addressed --

1           **MR. HINNEFELD:** Yeah.

2           **MR. GRIFFON:** -- and you specifically -- I mean  
3 you know, your -- your response is very  
4 specific.

5           **MR. HINNEFELD:** Yeah.

6           **MR. GRIFFON:** Right?

7           **MR. HINNEFELD:** Yeah. I think we should try to  
8 do this --

9           **MR. GRIFFON:** Right.

10          **MR. HINNEFELD:** -- like you said.

11          **MR. GRIFFON:** So we're closing this one out.

12          **MR. HINNEFELD:** We want to try to close the  
13 finding --

14          **MR. GRIFFON:** Right.

15          **MR. HINNEFELD:** -- the technical finding that's  
16 not affected by (unintelligible).

17          **MR. GRIFFON:** Right. Okay. Moving on.  
18 Flipping through, looking for the page -- the  
19 next page. I think it's 107.4, is that --

20          **MS. MUNN:** Looks like it.

21          **MR. GRIFFON:** So this is regarding the  
22 assumptions for the internal dose calculation,  
23 I think. I don't know, you guys'll have to  
24 tell me if -- there were some cases where you  
25 exchanged some IMBA runs and stuff. I don't

1 think this was one of them, but maybe it was.

2 **MR. HINNEFELD:** We talked about this one at  
3 some point.

4 **UNIDENTIFIED:** March 25th (unintelligible)  
5 subcommittee meeting.

6 **MR. HINNEFELD:** March 25th DR subcommittee  
7 meeting, we have a note that SC&A agreed with  
8 our discussion and now that's all that I have,  
9 that note --

10 **MS. MUNN:** And I --

11 **MR. HINNEFELD:** -- so we have to go back to  
12 that -- (unintelligible) Wanda?

13 **MS. MUNN:** I have another note, 6/9/08,  
14 incorrect assumption here. SC&A does not  
15 agree, although this does not change the  
16 compensability of the claim. OCAS will look at  
17 this again to verify the appropriateness of the  
18 method used.

19 **MR. GRIFFON:** Yeah, that's kind of where my  
20 comment --

21 **MR. HINNEFELD:** Okay, well, we'll have to do  
22 that --

23 **MR. GRIFFON:** That was the June meeting, yeah.

24 **MS. MUNN:** Yeah.

25 **MR. GRIFFON:** So NIOSH is going to look at this

1                   again?

2                   **MR. HINNEFELD:** Yeah.

3                   **MR. FARVER:** If you want I could sum this up  
4                   real quick.

5                   **MR. HINNEFELD:** Yeah.

6                   **MR. FARVER:** Employee basically had two  
7                   bioassay results a year apart, and they  
8                   assessed it as a chronic intake beginning six  
9                   months before the first sample, whereas we took  
10                  it to be a midpoint between the beginning  
11                  employment date and the bioassay sample date  
12                  and assessed it as an acute. So it's different  
13                  methodologies.

14                 **MR. GRIFFON:** Yeah, it -- it's -- it's either -  
15                 - if I read your thing right, Doug, it's either  
16                 acute versus chronic or, at the bottom of your  
17                 response, or the time frame for the exposure I  
18                 think is --

19                 **MR. FARVER:** Or both.

20                 **MR. GRIFFON:** Right, or both, right.

21                 **MR. FARVER:** Yes.

22                 **MR. GRIFFON:** So that's the things we want to  
23                 look at. These are not new things, but --

24                 **MR. FARVER:** You know, typically we go a  
25                 midpoint between --

1           **MR. GRIFFON:** Right.

2           **MR. FARVER:** -- dates, and in this case it was  
3 six months before, and there may be a basis but  
4 I don't know -- I did not find it.

5           **MR. GRIFFON:** Okay, so we'll leave that with  
6 NIOSH is going to look back at that again.  
7 107.5 -- I, at the last meeting -- I think this  
8 is resolved. NIOSH agrees, change results in a  
9 reduction of the POC, no further action's  
10 necessary -- is what I had from the last  
11 meeting, so I think we're okay there.  
12 107.6, this is the -- the Pu-238 issue. Doug,  
13 maybe you can --

14           **MR. HINNEFELD:** Yeah, we did provide --

15           **MR. GRIFFON:** -- summarize this --

16           **MR. HINNEFELD:** -- new information for  
17 (unintelligible).

18           **MR. GRIFFON:** Okay.

19           **MR. FARVER:** I think what this finding touches  
20 upon is how do you know that all the files are  
21 included in the employee's record files. Other  
22 words, it looks like the dose reconstructor  
23 actually did the calculation, but the file was  
24 not included with the record files.

25           **MR. SIEBERT:** Well, this is -- this gets back

1 to (unintelligible) files.

2 **MR. HINNEFELD:** Yeah.

3 **MR. SIEBERT:** I don't think (unintelligible).

4 **MR. HINNEFELD:** Okay. We're trying to get with  
5 our contractor about what can be done along  
6 this line of unused attempts. You know, we've  
7 had that conversation in here --

8 **MR. GRIFFON:** Right.

9 **MR. HINNEFELD:** -- and we've had some  
10 preliminary discussions back and forth, a  
11 couple -- we've had a couple of different  
12 starts that never really came to fruition  
13 (unintelligible) discussion of (unintelligible)  
14 --

15 **MR. GRIFFON:** It's this show your work  
16 question.

17 **MR. HINNEFELD:** Yeah, show your work,  
18 essentially show your work on the exam. And so  
19 I suspect there'll be threshold questions. For  
20 instance, every spreadsheet, did I fill out all  
21 these -- you know, anything I do as a  
22 convenience --

23 **MR. GRIFFON:** Yeah.

24 **MR. HINNEFELD:** -- things like that. I think  
25 it's -- I think that it's pretty clear to me

1           that if it's a -- say a -- an IMBA run that  
2           results in a dose of less than one millirem,  
3           it'd be worthwhile to have it in there and show  
4           that it was in fact considered and it was --  
5           the reason's not the dose reconstruction --

6           **MR. GRIFFON:** Right.

7           **MR. HINNEFELD:** -- but less than a millirem.

8           **MR. GRIFFON:** Right.

9           **MR. HINNEFELD:** That's a fairly clear threshold  
10          group of things to put in.

11          **MR. GRIFFON:** Right.

12          **MR. HINNEFELD:** I suspect there'll be some  
13          other categories of things that could be done,  
14          but there -- I sus-- the hardest part I think  
15          is going to be meeting -- you know, meeting  
16          common expectation, or we may think we're doing  
17          it and the reviewer may not. You know, that  
18          kind -- that -- that may still be occurring. I  
19          mean that may -- even after we say we're doing  
20          it, it's -- that statement still may  
21          (unintelligible) happen. But I'm also working  
22          with the contractor on what's -- what's the  
23          logistics here, because I don't really know  
24          contractor logistics for preparing a dose  
25          reconstruction and assembling the files. I

1 don't really know what kind of impact I'm ma--  
2 I'm asking them to take on when I say this.

3 **MR. GRIFFON:** Right.

4 **MR. HINNEFELD:** So that's what the -- that's  
5 where we're at.

6 **MR. FARVER:** It's not practical to include all  
7 the work files --

8 **MR. HINNEFELD:** Right.

9 **MR. FARVER:** -- so you just need to -- how you  
10 triage it down to a certain set.

11 **MR. HINNEFELD:** So that's just -- see, that's  
12 going to -- that's going to be a question, and  
13 the other question is how much impact does this  
14 have on productivity to do this. You know, I  
15 don't know if it would have much, but it -- it  
16 -- I don't know, it might. I just don't know  
17 enough about the process, so those -- that's  
18 the -- the nature of the discussion. I  
19 apologize, I haven't forced this to completion  
20 sooner, but we've -- you know, we'd have --  
21 we'd have initial conversation, it wouldn't go  
22 anywhere and I'd -- I'd be overcome by events  
23 and wouldn't keep pushing on it.

24 **MR. GRIFFON:** Well, let -- let me ask the --  
25 the follow-- I mean that's the -- the record's

1 question. Let me ask the -- the -- just a  
2 little follow-up question from the internal  
3 dose side. I understand it's a fairly trivial  
4 dose. This was assuming a certain exposure  
5 duration. Was that consistent with the finding  
6 we just discussed for the uranium side of the -  
7 - 'cause I think you were talking --

8 **MR. SIEBERT:** Different issue.

9 **MR. GRIFFON:** It's a different -- different  
10 issue?

11 **MR. SIEBERT:** Yeah, it's environmental for  
12 plutonium-238 after we stopped assigning  
13 plutonium-238 --

14 **MR. GRIFFON:** Oh, after --

15 **MR. SIEBERT:** -- on bioassay.

16 **MR. GRIFFON:** Okay, okay. All right. That's  
17 fine. That's fine.

18 **MR. FARVER:** And I guess it could be something  
19 as -- in other words, if they would have just  
20 included it in the -- the environmental  
21 workbook at that time and showed that it was in  
22 there --

23 **MR. HINNEFELD:** Yeah.

24 **MR. GRIFFON:** Yeah.

25 **MR. FARVER:** -- even though it would have come

1 (sic) up to be less than a millirem, it still  
2 would have been documented that it was looked  
3 at.

4 **MS. MUNN:** That it was there.

5 **MR. GRIFFON:** So the -- the -- from an action  
6 standpoint on this one, Stu, you -- you're  
7 saying that NIOSH is working with the  
8 contractor to resolve, you know, what --

9 **MR. HINNEFELD:** To decide what can -- what we  
10 can do --

11 **MR. GRIFFON:** -- to what extent  
12 (unintelligible) --

13 **MR. HINNEFELD:** -- about beginning to put files  
14 in there that are not utilized in the --

15 **MR. GRIFFON:** Right.

16 **MR. HINNEFELD:** -- in the dose reconstruction.  
17 I don't -- see, and like I say, I just don't  
18 know enough about the contractor preparation  
19 process and the --

20 **MR. GRIFFON:** Right.

21 **MR. HINNEFELD:** -- and you know, Scott does  
22 dose reconstructions. I don't actually do dose  
23 reconstructions in my current job and so guys  
24 like Scott would be in a better position to  
25 come up with some ideas about how this might

1 work, so -- but that's where we're at, we're in  
2 those conversations with our contractor.

3 **MR. GRIFFON:** Okay. Let's take a -- want to  
4 take a five-minute just comfort break --

5 **MR. HINNEFELD:** Sure.

6 **MR. GRIFFON:** -- and then we'll plan on lunch  
7 at a little -- around -- a little after  
8 noontime or whatever. Let's take five, for  
9 those on the phone.

10 **DR. WADE:** We're just going to mute the phone.  
11 We'll be back in five.

12 **MR. GRIFFON:** Thank you.

13 (Whereupon, a recess was taken from 11:05 a.m.  
14 to 11:18 a.m.)

15 **MR. GRIFFON:** We're ready, we'll start up again  
16 --

17 **DR. WADE:** Okay, we're -- this is the  
18 subcommittee conference room and we're back in  
19 session.

20 **MR. GRIFFON:** Okay, I think I -- I'm up to  
21 110.2, is that where you guys have it? Yeah.

22 **MS. MUNN:** Looks like it.

23 **MR. GRIFFON:** So this is a question of I think  
24 -- well, again, employment question, and I  
25 think the locations and -- and whether there

1 was neutron exposure 'cause I think --

2 **UNIDENTIFIED:** Yep.

3 **MR. GRIFFON:** -- the crux of this. And Doug, I  
4 might turn it over to you to...

5 **MS. MUNN:** Bef-- hold on just a sec. Before we  
6 go to 110.2 --

7 **MR. GRIFFON:** Did I miss --

8 **MS. MUNN:** Well, there isn't -- I still -- I  
9 have notes on my matrix from June, I think,  
10 with respect to 110.1-C22 -- is that on here?  
11 Yeah, it's --

12 **MR. GRIFFON:** 110.1?

13 **MS. MUNN:** Yeah, C22, and over in the  
14 resolution column I have two statements:  
15 Inconsistent treatment of blank data fields in  
16 dose records when it's unmonitored versus when  
17 it's zero.

18 **MR. GRIFFON:** Right.

19 **MS. MUNN:** NIOSH will provide additional  
20 follow-up to this finding.

21 And then I have: ORAU -- a different date,  
22 ORAU has agreed, unmonitored doses redone and  
23 incorporated; no change in comp--  
24 compensability. Still on the table is a site  
25 profile issue because of the coworker model.

1 I don't know why I have that, but...

2 **MR. GRIFFON:** Yeah, I'm not sure about the  
3 coworker model question at the end there. I do  
4 have -- I have that NIOSH agrees inconsistent  
5 treatment of blank data fields in dose records,  
6 parentheses, when is unmonitored versus when is  
7 zero.

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

9 **MR. GRIFFON:** And it sa-- my notes say NIOSH  
10 recalculated the dose, and I think the response  
11 includes that. Yeah, and then -- then I have  
12 that this case is under PER review, as well.  
13 But the question is, again for me, can this  
14 finding be closed without, you know -- it's  
15 under PER review, but for what -- under what  
16 context? Super S? Yeah. So super S is not  
17 really this issue. Can this issue be closed,  
18 you know, regardless of the PER review. And I  
19 think if there's enough specificity in the  
20 response, then we'd try to close it out.

21 **MR. HINNEFELD:** I think in this case we agreed  
22 there should have been 15 additional zeroes in  
23 missed dose.

24 **MR. GRIFFON:** Right.

25 **MR. HINNEFELD:** And without a PER, it would not

1 change the outcome PER anyway, so I was  
2 thinking we were done.

3 **MS. MUNN:** Okay, so this is closed -- closed  
4 for our purposes.

5 **MR. GRIFFON:** My thought was that the response  
6 was pretty specific and it said, you know, we  
7 missed 15. If we added them in it would add  
8 three percent or so to the dose and --

9 **MR. HINNEFELD:** Yeah, even just to the missed  
10 dose component --

11 **MR. GRIFFON:** Right.

12 **MR. HINNEFELD:** -- it would be a small  
13 percentage --

14 **MR. FARVER:** Has this been corrected into the  
15 Hanford workbook? I mean how to count blanks  
16 or zeroes or --

17 **MR. HINNEFELD:** I don't know that.

18 **MR. FARVER:** 'Cause I -- I think that was the  
19 original question.

20 **MR. HINNEFELD:** Yeah.

21 **MR. FARVER:** Sometimes they were zeroes, but  
22 they were entered as blanks.

23 **MR. HINNEFELD:** Well --

24 **MR. GRIFFON:** Right.

25 **MR. HINNEFELD:** Yeah.

1           **MR. FARVER:** And I guess 'cause -- is he  
2 unmonitored or is it a zero.

3           **MR. HINNEFELD:** Yeah.

4           **MR. GRIFFON:** So that's the broader question,  
5 you're right, Doug.

6           **DR. MAURO:** With the coworker model.

7           **MR. HINNEFELD:** Yeah, so if it were  
8 unmonitored, then it should be a coworker as  
9 opposed to a missed.

10          **MR. GRIFFON:** Right, that's your -- that's  
11 probably your note, Wanda.

12          **MS. MUNN:** Which is probably what my note's  
13 about, so I can say it's closed for our  
14 purposes.

15          **MR. HINNEFELD:** I thought -- I thought we were  
16 done.

17          **MS. MUNN:** Yeah, okay.

18          **MR. FARVER:** It's just a matter of if it af--  
19 if it affects other cases.

20          **MR. HINNEFELD:** Yeah.

21          **MR. GRIFFON:** You know.

22          **MR. HINNEFELD:** And I'd have to get somebody  
23 (unintelligible). We'd have to -- I'd have to  
24 get somebody who was really -- you know,  
25 certain -- certain people specialize in certain

1 sites --

2 **MR. GRIFFON:** Certain sites, right.

3 **MR. FARVER:** I believe I read somewhere in the  
4 documentation where certain years, even if the  
5 person was monitored, it was entered if a blank  
6 if it was a zero. They weren't always put in  
7 as zeroes.

8 **MR. HINNEFELD:** Okay.

9 **MS. MUNN:** Well, I'm a Hanford person but if I  
10 say anything about it, I have to be killed,  
11 so...

12 **MR. HINNEFELD:** And there are -- there are  
13 multiple records from (unintelligible), I know  
14 that.

15 **MS. MUNN:** There certainly are.

16 **MR. HINNEFELD:** There are -- there are multiple  
17 -- and in a response from DOE for exposure  
18 history, you'll see several versions that  
19 contain the same data, so there could be  
20 they're zeroes in some places and blank in  
21 others. I don't -- I don't know, I'm just --  
22 I'm just talking.

23 **MR. FARVER:** I just remember reading that and I  
24 believe it might be somewhere in the  
25 documentation like the technical basis or --

1           **MR. HINNEFELD:** Somewhere in the site profile?

2           **MR. FARVER:** Yeah, somewhere in there.

3           **MR. HINNEFELD:** Why don't you drop me a line on  
4 that if you could --

5           **MR. FARVER:** Sure.

6           **MR. HINNEFELD:** -- just an e-mail, and pointing  
7 out where in it -- where it was and -- and then  
8 I'll get -- that'll prompt me to get over to  
9 ORAU with -- get one of their Hanford folks to  
10 weigh in on it.

11          **MR. GRIFFON:** Well, I think we should -- we  
12 should formally follow up on that part of it.  
13 I think it's closed out for the case --

14          **MR. HINNEFELD:** Yeah.

15          **MR. GRIFFON:** -- but does -- does the -- is the  
16 broader issue resolved --

17          **MR. HINNEFELD:** Just to make sure. You know, I  
18 think the -- you know, we -- we -- we've got  
19 some people -- they're not dose  
20 reconstructionists, but they could give advice  
21 on the interpretation of the records. We've  
22 got a number of people on the project with  
23 Hanford experience, so I would think that if  
24 we're doing it -- we're doing it right, but  
25 we'll find out.

1           **MS. MUNN:** So it is or is not closed for our  
2 purposes? Are you going to carry this  
3 somewhere else or --

4           **MR. GRIFFON:** Closed for the case, and I'm  
5 asking that -- that we -- NIOSH confirm that  
6 it's -- you know, something is in place to --

7           **MR. HINNEFELD:** Yeah.

8           **MR. GRIFFON:** -- ensure that it doesn't happen  
9 in other cases. Now that -- that -- that  
10 something, that gets me back to -- which we'll  
11 discuss after the lunch, but -- I mean I don't  
12 know if this is something that sort of is  
13 addressed in those DR notes or -- or DR  
14 guidelines that you have for certain sites --

15           **MR. HINNEFELD:** Well, I'm not real sure.

16           **MR. GRIFFON:** -- that kind of thing?

17           **MR. HINNEFELD:** I'm not real sure, it may be --  
18 it might be, or it might be in the training  
19 that's provided for -- for Hanford dose  
20 reconstructors, and it may be in the direction  
21 that's given to the data entry people in how --  
22 in entering -- you know, because all this -- we  
23 get all this stuff hard copy and it gets put on  
24 -- electronically entered into a sheet. Some  
25 of it (unintelligible) dose reconstructors

1 (unintelligible) stuff like (unintelligible) so  
2 it may be in the instructions or the training  
3 to those people. So whatever the situation is  
4 --

5 **MR. GRIFFON:** All right.

6 **MR. HINNEFELD:** -- like I said, I would think  
7 that we've got to be doing this correctly  
8 'cause there's just so many, you know, people  
9 on the project that have experience at Hanford  
10 and can -- and understand the Hanford records.  
11 But I'll find out.

12 **MR. GRIFFON:** All right. We'll just confirm  
13 that. Thanks, Wanda.

14 **MS. BEHLING:** Excuse me -- excuse me, Mark.  
15 Can I ask a question? I apologize here because  
16 I guess maybe I'm -- I'm -- I'm not clear on  
17 something, and maybe NIOSH can just verify this  
18 for me. This particular finding is a good  
19 example. Since this case will be going through  
20 the PER process, or the PER process has  
21 started, will the dose reconstructor that's  
22 doing -- that's recalculating this particular  
23 case see this finding and incorporate it into  
24 that PER?

25 **MR. HINNEFELD:** Well, Kathy, that's kind of

1 what we were talking about earlier. That --

2 **MS. BEHLING:** Okay, that -- that -- okay, I --

3 **MR. HINNEFELD:** The capturing of these findings  
4 and getting them to the right people is what we  
5 have to cogitate on between us and the  
6 contractor about how -- how best to accomplish  
7 that, because that's -- to me, right -- sitting  
8 here right here today, it's not something -- I  
9 don't see an easy place to do it, so with -- we  
10 may -- but there are more creative and more  
11 knowledgeable people than I am on this project.  
12 There may be a relatively easy way to do it  
13 that just takes a -- one additional step on our  
14 part and everything's taken care of at the  
15 appropriate time. So we'll just -- we'll just  
16 have to see.

17 **MS. BEHLING:** Yeah, because I know that in  
18 certain cases, especially like in our eighth  
19 and ninth set, there were a lot of cases that I  
20 realized may have already been through the PER  
21 process for super S, and I had checked the  
22 NOCTS system and in some cases a PER was  
23 already completed. That's why I guess I made  
24 the comment earlier, it might be beneficial for  
25 us, while we're doing the review, to say it

1 appears, based on information in NOCTS, that a  
2 PER has already been completed. So if there is  
3 a finding that would impact that case, it's not  
4 going to get caught during that PER process.  
5 Or have I missed something?

6 **MR. HINNEFELD:** I mean I don't think we'd write  
7 that response because we would know from  
8 looking at the dose reconstruction whether they  
9 had used the new technique that led to the PER.  
10 I mean you can certainly say that. I mean you  
11 can look at those, 'cause I think it is -- that  
12 information is in NOCTS. But we would only  
13 make -- we only make that response when we look  
14 and see that this was done with an old version  
15 that has since been changed by PER, so that's  
16 the only time we'd write that response.

17 **MS. BEHLING:** Okay. Okay, that -- as you said,  
18 this is an area that you're looking into. I  
19 just wanted to be sure I understood what's  
20 going on. I apologize.

21 **MR. GRIFFON:** That's all right. I think we're  
22 okay on it, though. Okay.  
23 So back to 110.2 -- and I have in my notes  
24 NIOSH to provide a follow-up response.

25 **MR. HINNEFELD:** Yes, and it's August 20th down

1           there -- August --

2           **MR. GRIFFON:** Yeah.

3           **MR. HINNEFELD:** Okay?

4           **MR. GRIFFON:** So these are here --

5           **MR. HINNEFELD:** Yes.

6           **MR. GRIFFON:** -- and also SC&A has a response,  
7           I see, so --

8           **MR. HINNEFELD:** Well --

9           **MR. GRIFFON:** -- maybe you can start, Stu, and  
10          --

11          **MR. HINNEFELD:** Okay, yeah. Our response is  
12          that the finding's correct and that the  
13          unmonitored neutron doses should have been  
14          added for the years specified. That's '46,  
15          '49, '51, '52 and '57. The worker had  
16          dosimetry records, being a rover, and worked in  
17          the 100 area, reactor area, so the neutron --  
18          unmonitored neutron should have been there. So  
19          we put that in and then took out some  
20          overestimating factors in the original dose  
21          reconstruction -- for instance, external  
22          ambient. When a person wears a -- wears a  
23          badge, we normally don't include ambient, so  
24          you take out ambient for those days, and also  
25          assign medical X-rays only on the actual number

1 of -- of exams, which are -- we have a -- not  
2 from all sites, but on this site we have a  
3 record of the actual full number of exams. And  
4 so when those -- when you add those, there's  
5 almost no change -- make all those changes,  
6 there's almost no change in the POC.

7 **MR. GRIFFON:** So in the -- in the first --

8 **MR. HINNEFELD:** So in the first one there were  
9 some over--

10 **MR. GRIFFON:** -- in the first they -- they did  
11 some overestimating on the medical X-rays  
12 especially. Is that what you're saying?

13 **MR. HINNEFELD:** Medical and ambient.

14 **MR. GRIFFON:** Yeah, and (unintelligible).

15 **MR. HINNEFELD:** There was some --

16 **MR. GRIFFON:** Right.

17 **MR. HINNEFELD:** -- overestimating, and so when  
18 you take those overestimates out it's -- it  
19 offsets the increased dose.

20 **MR. GRIFFON:** And Doug, do you have a -- an  
21 agreement on this or --

22 **MR. FARVER:** Yes.

23 **MR. GRIFFON:** Okay, so I think that one is  
24 closed -- yes. 110.3.

25 **MR. HINNEFELD:** I believe this is our initial

1 response.

2 **MR. GRIFFON:** Okay.

3 **MR. HINNEFELD:** Is that right?

4 **MR. FARVER:** I believe it is.

5 **MR. GRIFFON:** Yeah, you're right

6 **MS. MUNN:** 10.3?

7 **MR. HINNEFELD:** Yeah, 110.3, I believe this is  
8 our initial response.

9 **MR. GRIFFON:** I do have a note, though, that --  
10 that NIOSH will compare this case to OTIB-54?

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

12 **UNIDENTIFIED:** Fission products.

13 **MR. FARVER:** Fission products.

14 **MR. GRIFFON:** Right.

15 **MR. HINNEFELD:** Yeah, that's the fission  
16 products TIB.

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

18 **MR. SIEBERT:** And it is actually at the bottom  
19 of that response that it's included.

20 **MS. MUNN:** 110.3?

21 (Pause)

22 **MR. GRIFFON:** I assume this is the first SC&A  
23 has seen this -- right? (Unintelligible) saw  
24 it when it was sent out, yeah.

25 **MR. FARVER:** Yeah, I re--

1           **MR. HINNEFELD:** (Unintelligible) or whenever we  
2 sent it out. They (unintelligible) haven't had  
3 the opportunity (unintelligible).

4           **MR. GRIFFON:** I mean let me ask a question  
5 while Doug's pondering over this. Midway down  
6 on page 30 on the response there's a -- a  
7 sentence here, or a section, that says  
8 (reading) This is unreasonable since the TBD  
9 gives specific guidance for assigning intakes  
10 based on air and monitoring results as opposed  
11 to the whole body counting determination.  
12 And I'm trying to remember -- I mean I don't  
13 know if that's a little bit of a -- probably  
14 gets into the site profile -- I don't know if  
15 we've reviewed the site profile for this.

16           **UNIDENTIFIED:** It was -- that remark --

17           **MR. GRIFFON:** (Unintelligible) little circular  
18 logic to -- you know.

19           **MR. SIEBERT:** A -- an older version of the site  
20 profile had the -- I think it was -- it had  
21 specific intakes based on air monitoring  
22 results for days prior to whole body counts --

23           **MR. GRIFFON:** Okay.

24           **MR. SIEBERT:** -- being done. Then once we had  
25 the coworker OTIB for Hanford, that part was

1 yanked out and the coworker OTIB was used --

2 **MR. GRIFFON:** Okay.

3 **MR. SIEBERT:** -- from that point forward. This  
4 is referring to the older process which was  
5 replaced --

6 **MR. GRIFFON:** Right.

7 **MR. SIEBERT:** -- at the time we did this claim.

8 **MR. GRIFFON:** Right.

9 **MR. FARVER:** Which is fine. We've seen that in  
10 many cases where, for that time period, that  
11 was the table you would use and that  
12 information. What kind of raised the red flag  
13 here was it -- I think it was the nuclides, it  
14 -- according to the site profile, you would  
15 choose ruthenium-106 as claimant favorable, but  
16 according to the Hanford radionuclide chooser  
17 it would be cerium-144.

18 **MR. SIEBERT:** That's because they were based on  
19 --

20 **MR. FARVER:** Two different things.

21 **MR. SIEBERT:** -- two different things, right,  
22 right.

23 **MR. FARVER:** And that was not clear. I don't  
24 know, since it was pulled out, it probably  
25 doesn't need to be made clear.



1 technical basis and the -- and the radionuclide  
2 chooser --

3 **MR. GRIFFON:** Oh, the --

4 **MR. FARVER:** -- the workbook.

5 **MR. GRIFFON:** -- in -- in the workbook.

6 **MR. HINNEFELD:** Workbook.

7 **MR. GRIFFON:** Right, right. Okay.

8 **MR. FARVER:** Two separate things. There was a  
9 little bit of a discrepancy, but no, they did  
10 follow the technical basis.

11 **MR. GRIFFON:** Okay. So there's no further  
12 action on this --

13 **MR. FARVER:** Nope.

14 **MR. GRIFFON:** Okay, and I think -- coming up on  
15 111.1. That was it for 110. Right?

16 **MS. MUNN:** Yes.

17 **MR. GRIFFON:** And 114.3 is the next one I'm  
18 finding. Let me know if there's anything that  
19 we missed in between.

20 **MR. HINNEFELD:** .2.

21 **MR. GRIFFON:** 142.3?

22 **MR. HINNEFELD:** .2.

23 **MR. GRIFFON:** Oh, .2, I'm sorry -- .2, yes.

24 (Pause)

25 Yes, so 114.2 and is this -- Stu, I think this

1 is NIOSH's first response on this one. I don't  
2 have anything --

3 **MR. HINNEFELD:** Yes, yes, it is. Yes, it is.  
4 Yes, it is. It's our initial.

5 **MR. FARVER:** And the response makes sense, and  
6 I'll have to go back and -- and check the data  
7 for this year that's mentioned against OTIB-17,  
8 'cause I know it gets confusing with OTIB-17 on  
9 when you assign shallow dose missed dose and  
10 when you assign deep dose missed dose, and you  
11 really just have to write it all out.

12 **MR. GRIFFON:** Okay.

13 **MR. FARVER:** It's probably okay, and what I can  
14 do is I can check the data and I can fire off  
15 an e-mail saying it's okay.

16 **MR. GRIFFON:** All right, that's fine. So SC&A  
17 will check out the (unintelligible).  
18 Response 114.3. This is the question of the  
19 locations for neutron exposures at Y-12.

20 **MR. HINNEFELD:** Yeah, this is a -- a Y-12 one,  
21 and we agree that there is a -- there is a  
22 discrepancy in the site profile and it's report  
23 33, or whatever the document is, report  
24 something, about locations of neutron exposures  
25 at Y-12. And we've -- will address that either

1           in site -- during the site profile revision,  
2           which as you know, is an open (unintelligible).  
3           We've made sure we've put it on our project  
4           planning list, essentially a to-do list -- but  
5           really it's a to-do list of the things that we  
6           intend -- that we know we need to accomplish,  
7           and it's listed as a specific activity to  
8           resolve this difference in the ac-- in the  
9           broader activity to revise the Y-12 site  
10          profile. The Y-12 site profile revisions came  
11          from the SEC discussion of Y-12. There were a  
12          number of issues identified as non-SEC issues  
13          that are still to be resolved.

14          **MR. GRIFFON:** Right.

15          **MR. HINNEFELD:** So that's an activity that's  
16          out there, and we've -- we've captured --  
17          whether this is -- this particular item is not  
18          on the findings matrix from that, but we've  
19          added it to our project plan so that it doesn't  
20          get lost, so it will get fixed in the revision  
21          process.

22          **MR. GRIFFON:** Are there any -- you talked about  
23          developing a listing of buildings where neutron  
24          exposures could have taken place?

25          **MR. HINNEFELD:** Yeah.

1           **MR. GRIFFON:** I guess there's potentially some  
2           classification issues related to that?

3           **MR. HINNEFELD:** There might be. There might  
4           be.

5           **MR. GRIFFON:** Yeah. That might be.

6           **MR. HINNEFELD:** I'm not real conversant about  
7           those.

8           **MR. GRIFFON:** Right, but I'm sure  
9           (unintelligible).

10          **MR. HINNEFELD:** Might be. We may run into that  
11          in that Y-12 stuff. The issue right now is  
12          there are two different lists.

13          **MR. GRIFFON:** Yeah.

14          **MR. HINNEFELD:** There's one in the site profile  
15          and one in this other document.

16          **MR. GRIFFON:** I take it you're going toward --  
17          I mean it looks like a commitment to make a  
18          comprehensive list. I just throw that caution  
19          out there 'cause I think that can come up.

20          **MR. HINNEFELD:** Yeah, I'm not real conversant  
21          about those kinds of issues, but if we run into  
22          those sorts of things we try to -- what, you  
23          know, a remedy is to encompass more area than  
24          truly -- you know, rather than be exactly  
25          specific, if that's going to be a problem --

1           **MR. GRIFFON:** With the area or with -- with  
2 mentioning the source, you know, sort of, you  
3 know --

4           **MR. HINNEFELD:** Yeah.

5           **MR. GRIFFON:** -- and saying neutrons versus  
6 saying what's generating the neutrons --

7           **MR. HINNEFELD:** What's generating the neutrons.

8           **MR. GRIFFON:** That's where you might get --

9           **MR. HINNEFELD:** Yeah, so --

10          **MR. GRIFFON:** -- issues, yeah.

11          **MR. HINNEFELD:** -- it's a -- it -- I -- I don't  
12 really know --

13          **MR. GRIFFON:** Right.

14          **MR. HINNEFELD:** -- but --

15          **MR. GRIFFON:** That's fine.

16          **MR. HINNEFELD:** -- I think there's a way to  
17 work around it.

18          **MR. GRIFFON:** So I have -- this is one of these  
19 ones, as far as tracking is concerned, not --  
20 I'm saying that, you know, we'll -- we'll  
21 revise the -- NIOSH will consider this --  
22 modifying the listing in the site profile.

23          **MR. HINNEFELD:** Yeah, and whether the site  
24 profile gets changed or whether report 33 gets  
25 changed, whatever the reso-- whatever the right

1 answer is, you've got to have one list.

2 **MR. GRIFFON:** And then -- and then it -- you  
3 know, depending on the result of that rework  
4 and mod-- you know, re-evaluation --

5 **MR. HINNEFELD:** This may or may not have to be.

6 **MR. GRIFFON:** -- re-evaluate this case if  
7 necessary --

8 **MR. HINNEFELD:** -- if necessary.

9 **MR. GRIFFON:** -- is what I said.

10 **MR. HINNEFELD:** Yeah.

11 **MR. GRIFFON:** Now that's got to stay on our  
12 tracking radar, that's all.

13 **MR. HINNEFELD:** Yeah.

14 **MR. GRIFFON:** But just to make a note of that,  
15 yeah. Okay.

16 114.4, I think I have SC&A agreeing on that.

17 **MR. FARVER:** Yes.

18 **MR. GRIFFON:** 114.5, SC&A agrees again, with  
19 this?

20 **MR. FARVER:** Yes.

21 **MR. GRIFFON:** I don't know, there's -- there  
22 might be a little bit more to this one. Is  
23 this --

24 **MR. FARVER:** It's a two-part, and the first  
25 part we agreed, then the -- NIOSH provided more

1 information and -- somewhere down here --

2 **MR. GRIFFON:** There's this question of whether  
3 you were looking at excretion data or intakes  
4 and --

5 **MR. FARVER:** And they are correct, it was  
6 comparing apples and oranges.

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

8 **MR. FARVER:** But I believe they also say that,  
9 you know, you probably should have used the  
10 actual data.

11 **MR. HINNEFELD:** Should use actual data.

12 **MR. GRIFFON:** Right.

13 **MR. FARVER:** I think that was one of the  
14 concerns. It wasn't appropriate to use  
15 coworker data when you actually had 50 urine  
16 samples.

17 **MR. GRIFFON:** Right, so NIOSH agrees on that  
18 part. Right?

19 **MR. HINNEFELD:** Yeah.

20 **MR. GRIFFON:** You were looking at these as  
21 intakes, not as excretions. Is that -- is that  
22 --

23 **MR. FARVER:** Yes, when I was -- when I was  
24 making --

25 **MR. GRIFFON:** -- part of the disconnect on the

1 doses?

2 **MR. FARVER:** When I was making a comparison  
3 between the employee's data and the coworker  
4 data and said -- and it was not the same, I was  
5 incorrect. I was comparing apples and oranges.

6 **MR. GRIFFON:** Okay. All right. So overall,  
7 this is closed. Is that accurate?

8 **MR. FARVER:** Yes.

9 (Pause)

10 **MR. GRIFFON:** Sorry I took -- I just wanted to  
11 capture all that 'cause it's like a two-part --

12 **MS. MUNN:** Uh-huh.

13 **MR. GRIFFON:** -- two-part resolution.

14 Okay, moving on.

15 **MS. MUNN:** 115.1 --

16 **MR. GRIFFON:** You have something on 115.1?

17 **MS. MUNN:** Well, it puzzled me because I have,  
18 in my NIOSH resolution box, NIOSH agrees, no  
19 effect on case, QC presentation to be provided  
20 by NIOSH.

21 **MR. GRIFFON:** Yeah, that's what I have.

22 **MS. MUNN:** And what QC presentation where?

23 **MR. HINNEFELD:** Larry presented it to the  
24 Board.

25 **MS. MUNN:** It's the one --

1           **MR. GRIFFON:** Yeah, Larry --

2           **MS. MUNN:** -- that's the one we've seen.

3           **MR. GRIFFON:** Right.

4           **MS. MUNN:** So we're done.

5           **MR. GRIFFON:** Right. Presentation was provided  
6 by NIOSH on -- I don't remember --

7           **MS. MUNN:** Yeah.

8           **MR. GRIFFON:** -- which meeting, but --

9           **MS. MUNN:** I -- well, that's -- that was my  
10 question, was that what we've seen?

11           **MR. GRIFFON:** Yeah, yeah, that was what we saw,  
12 yeah. This was before --

13           **MR. HINNEFELD:** Yeah, that was before that  
14 presentation.

15           **MR. CLAWSON:** That was in St. Louis, wasn't it?

16           **MS. MUNN:** I think so.

17           **MR. GRIFFON:** I think you're right, yeah.

18           **MR. HINNEFELD:** I can't keep any of this  
19 straight.

20           **MS. MUNN:** No, I'm never sure where I was --

21           **MR. GRIFFON:** St. Louis what year -- what year?

22           **MR. HINNEFELD:** Yeah, what year?

23           **MR. GRIFFON:** Okay, so then I think 117.1,  
24 right? I have this -- my note has it closed  
25 out, but --

1           **UNIDENTIFIED:** (Unintelligible)

2           **MR. GRIFFON:** Yeah, okay. But the previous  
3           matrix I didn't have this response in from  
4           SC&A, and I've got to tell you, I'm a little  
5           confused about this -- this letter. Can you  
6           describe what -- refresh my memory here. What  
7           is this letter?

8           **MR. HINNEFELD:** This was our letter that led to  
9           those OTIB-4 cases.

10          **MR. GRIFFON:** Okay.

11          **MR. HINNEFELD:** That was the LET. Now -- so  
12          that's the letter we're talking about.

13          **MR. GRIFFON:** Okay. So I take it it's clos--  
14          it's closed out. I just wasn't --

15          **MR. FARVER:** Yes.

16          **MR. GRIFFON:** -- clear on what the letter was,  
17          trying to remember what that letter was.  
18          All right, 118.1 --

19          **MR. HINNEFELD:** Yeah, these are our initial  
20          responses --

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

22          **MR. HINNEFELD:** -- these are all 118, these are  
23          all initial responses.

24          **MR. GRIFFON:** Right. So Stu, maybe you can  
25          start us off with all these.

1           **MR. HINNEFELD:** I'll try. The first one has to  
2 do with what we believe was a code on the  
3 dosimetry report rather than a part of the  
4 dosimetry number, and there's a code -- a  
5 reason code, either 13 or 15, for the reported  
6 beta dose of zero, which makes it look like  
7 13,000 or 15,000, so that's what we believe is  
8 the basis for the first ones.

9           **MR. GRIFFON:** And I don't know -- Doug, some of  
10 these are pretty detailed responses. I don't  
11 know if you've had a chance to look at these  
12 and --

13           **MR. FARVER:** Well, some of them --

14           **MR. GRIFFON:** -- prepared to really discuss  
15 them or --

16           **MR. FARVER:** -- and in -- can I just give you a  
17 little background on this employee. From '55  
18 to '87 he worked at Idaho National Lab. Now  
19 during that time period, from '62 to '75, he  
20 worked at ANL West. The only records I could  
21 find were from Idaho and were not from ANL  
22 West. Specifically, in some of his records it  
23 was deleted and said ANL West not reported. So  
24 the basis from probably almost all these  
25 findings is dosimetry data from ANL West was

1 not requested, so we can't tell if it's really  
2 claimant favorable or not claimant favorable  
3 with either internal or external, and that's  
4 the gist of this case. So I guess the question  
5 comes up is what's the guideline for requesting  
6 data? If the employee puts down that this is  
7 where he worked, do you request it? And is ANL  
8 West really Idaho?

9 **MR. HINNEFELD:** It is.

10 **MR. FARVER:** And if so, should that data be  
11 reported when you request the Idaho data?

12 **MR. HINNEFELD:** And Idaho does report ANL West  
13 data. They don't report the NRF data. They  
14 were (unintelligible) facility when they -- to  
15 us.

16 **MR. FARVER:** Okay.

17 **MR. HINNEFELD:** But they do report ANL West.  
18 And ANL -- and there are records in there. You  
19 know, you have to look several places in the  
20 responses, but there are records that give a  
21 dose record for these -- for his employment  
22 that's different from that sheet.

23 **MR. FARVER:** Well, I understand it does give  
24 summaries, it gives totals.

25 **MR. HINNEFELD:** Yeah.

1           **MR. FARVER:** But -- I mean it also clearly says  
2 ANL West not reported.

3           **MR. HINNEFELD:** Well, that's on that record.

4           **MR. FARVER:** On this record.

5           **MR. HINNEFELD:** This was a particular record.  
6 We received --

7           **MR. FARVER:** It was a year by year record for  
8 the dosimetry data.

9           **MR. HINNEFELD:** But there are -- there's --  
10 yeah, but there are other records in that file  
11 from which you can deduce and we have  
12 apportioned that dose to that time period.

13           **MR. FARVER:** I understand, by subtracting out  
14 what you know from -- from what you don't know  
15 --

16           **MR. HINNEFELD:** Yeah.

17           **MR. FARVER:** -- you can --

18           **MR. HINNEFELD:** You can deduce the ANL West.

19           **MR. FARVER:** Correct. I guess my question was  
20 how -- why can't you just get the ANL West data  
21 altogether reported?

22           **MR. HINNEFELD:** Because Idaho always provides  
23 it anyway. We -- you know, we don't -- ANL  
24 West does not provide a response to us on their  
25 dosimetry. Idaho provides it, and this is what

1 Idaho has.

2 **MR. FARVER:** Okay. Why didn't -- why didn't  
3 they --

4 **MR. GRIFFON:** That's all they have, they don't  
5 --

6 **MR. FARVER:** -- report it when they reported  
7 the other -- the -- the yearly data, the yearly  
8 dosimetry data?

9 **MR. HINNEFELD:** In all likelihood, they don't -  
10 - they didn't have it.

11 **MR. FARVER:** Okay.

12 **MR. HINNEFELD:** They had the annual -- they had  
13 the summary, and they gave us what they have.  
14 The DOE is -- is really good about getting us  
15 what they have. Idaho provides us response for  
16 ANL West, so that's what we have --

17 **MR. FARVER:** Okay.

18 **MR. HINNEFELD:** -- and we've then apportioned  
19 it, we believe in a favorable fashion, to the -  
20 - to that period of time and -- and taking--  
21 and done -- I would think we've done a suitable  
22 dose assignment. Now I'd have to go back and  
23 look at it again to say yeah, I really feel  
24 good about this or not, but I believe we  
25 probably have. But that's -- that's the

1 difference, because ANL West does not -- we  
2 don't have a contact. ANL West does not  
3 respond to our requests. We go to Idaho and  
4 they respond and they include ANL West.

5 **MS. MUNN:** But it's all an umbrella.

6 **MR. HINNEFELD:** Yeah, right, I mean -- I -- I  
7 don't -- I'm not familiar with -- I -- I looked  
8 at these cases, these specific ones, these  
9 specific sheets. And in this case you're  
10 right, there's not a year by year total for ANL  
11 West. We had to deduce what their total was at  
12 ANL West.

13 **MR. FARVER:** Okay. And the other thing was, if  
14 you look at the -- the request for data  
15 records, there's a request for Idaho but there  
16 is not a separate one for ANL West.

17 **MR. HINNEFELD:** That's because they don't  
18 provide it.

19 **MR. FARVER:** Okay, I understand that.

20 **MR. HINNEFELD:** Yeah.

21 **MR. FARVER:** But I would say put that in the  
22 documentation somewhere, the technical basis.  
23 I didn't find it in either the Argonne  
24 documentation or the INL documentation saying  
25 that --

1           **MR. HINNEFELD:** Okay, --

2           **MR. FARVER:** -- ANL dosimetry data is included  
3 with the Idaho.

4           **MR. HINNEFELD:** It'll be like a site profile  
5 thing.

6           **MR. GRIFFON:** Yeah.

7           **MS. MUNN:** I would think so.

8           **MR. FARVER:** And that should clear it up then,  
9 because what it appears is that you didn't  
10 request the data.

11          **MR. HINNEFELD:** Yeah.

12          **MS. MUNN:** Yeah, yeah.

13          **MR. CLAWSON:** So Stu, is there -- are there  
14 blanks in it that INL West -- I -- I know how  
15 the system works out there, I --

16          **MR. HINNEFELD:** The annual -- in this case --  
17 I'm not familiar -- I'm not an expert on the  
18 Idaho records that we get, but in this case,  
19 the year by year -- we got one list that gave  
20 the year by year totals, and that did not have  
21 the ANL West years in there, and it said ANL  
22 West not reported. Presumably that was  
23 something that was in the -- in the person's  
24 file from his employment by the contractor at  
25 the other -- you know, when he was over at the

1 other part of the plant, and it was for them  
2 and so they weren't so -- you know, so they  
3 didn't necessarily have the ANL West included  
4 in there.

5 **MR. FARVER:** But they have handwritten totals  
6 at the bottom.

7 **MR. HINNEFELD:** Uh-huh.

8 **MR. FARVER:** With the missing data subtracted  
9 out.

10 **MR. HINNEFELD:** Yeah.

11 **MR. FARVER:** It appears.

12 **MR. HINNEFELD:** Yeah, and then so --

13 **MR. FARVER:** And then there's another page that  
14 had cumulative data over --

15 **MR. HINNEFELD:** Right.

16 **MR. FARVER:** -- the worker's history.

17 **MR. HINNEFELD:** Yes.

18 **MR. FARVER:** So by taking the handwritten  
19 numbers, subtract them from the cumulative, you  
20 can assume what's missed.

21 **MR. HINNEFELD:** Yes. Yes. So -- but I -- we  
22 don't think there's an insurmountable problem  
23 with ANL West, and I only know -- and it's just  
24 this case, but I know it's -- it may be okay in  
25 other cases, I don't know.

1           **MR. CLAWSON:** Because I -- because I know  
2           there's an issue because they were under DOE  
3           Chicago, we were under DOE Idaho, and I worked  
4           there for a while and I know that my dose  
5           didn't show up on Idaho's because it was  
6           through DOE Chicago and I don't know why they -  
7           - they did these things this way.

8           **MR. HINNEFELD:** Our unders-- our belief is that  
9           it's taken care of in what we did. We did  
10          everything from Idaho, including ANL West --  
11          not everything, but Idaho, excluding  
12          (unintelligible), so we did everything, all the  
13          other sites that we get from Idaho and we have  
14          nobody else badged.

15          **MR. FARVER:** Of course the same holds true on  
16          the bioassay --

17          **MR. HINNEFELD:** Yeah.

18          **MR. FARVER:** -- it's -- it's not clear in the  
19          records that it was even requested, nor that  
20          it's separate or totaled.

21          **MR. HINNEFELD:** Yeah. We can make comment in  
22          the site profile that would provide, you know,  
23          instruction to everybody.

24          **MR. CLAWSON:** Well, their bioassay was done at  
25          Idaho and their dosimetry reading was done at

1 Idaho, but the information went to --

2 **MR. HINNEFELD:** Yeah, so the record-keeping for  
3 both would likely be the same, but it's our  
4 bel-- you know, our belief is that we are  
5 getting it all, everything.

6 **MR. GRIFFON:** I mean have you checked with the  
7 Chicago and -- DOE Chicago office to see if  
8 records are there --

9 **MR. HINNEFELD:** I don't know. I don't know  
10 that we've done that.

11 **MR. CLAWSON:** That -- that's the point I'm  
12 getting at.

13 **MR. HINNEFELD:** We can -- we can go to -- that  
14 would be a simple request for us 'cause we'll  
15 just go to DOE headquarters and we'll say hey,  
16 let us know -- here's what we see -- we can  
17 give them this specific example. Here's what  
18 we see in these records from this guy from  
19 Idaho. We see ANL West is different, it's  
20 excluded in this one area and we had to deduce  
21 it here --

22 **MR. GRIFFON:** I believe that'd be worth --

23 **MR. HINNEFELD:** -- have you got anything in  
24 Chi-- you know, at Chicago do they have  
25 anything that would fill this out some. We can

1           try that.

2           **MR. GRIFFON:** At least -- at least for a simple

3           --

4           **MR. HINNEFELD:** That's a simple question -- at  
5           this point it's a simple question to  
6           headquarters.

7           **MR. CLAWSON:** Well, and al-- also because it's  
8           -- in the site profile like this we need -- we  
9           haven't addressed this in R-2 because for many  
10          years it was -- they were completely separate  
11          entities. Things were done here, but all the  
12          information went back east.

13          **MR. HINNEFELD:** Yeah.

14          **MR. CLAWSON:** And -- and I know that a lot of  
15          the claimants and petitioners and stuff like  
16          that have -- have those questions because they  
17          were juggled around somewhat and all of a  
18          sudden to have big gaps in their -- in their  
19          history, that's usually going from one side to  
20          the other.

21          **MR. GRIFFON:** Getting -- getting back to the  
22          more specifics on this 118.1 especially, I --  
23          the second paragraph of your response, Stu, the  
24          -- it says the reported photon dose for this  
25          date does not appear to be based on a dosimeter

1 result. What -- what -- what does that mean,  
2 does not appear to be based on a dosimeter  
3 result? How -- how does -- how -- how did you  
4 come to that conclusion, I guess is my -- I'm  
5 not familiar with the details, either, but I'm  
6 just asking.

7 So some-- somehow there was a positive result,  
8 and there were zeroes reported. Right?

9 **MS. MUNN:** However, at the end of that week,  
10 the same record indicates a dose of 7,200  
11 millirem was reported for the period of March  
12 16 through 25, and the beta dose is left blank.

13 **MR. HINNEFELD:** Anybody know the date of the  
14 SL-1 accident off the top of your head? It was  
15 1958.

16 **MR. GRIFFON:** It was '58, yeah, I don't know.

17 **MR. FARVER:** Well, I think when you keep  
18 reading it's possible that the -- that these  
19 handwritten records are corrections --

20 **MR. HINNEFELD:** Yeah.

21 **MR. FARVER:** -- because the 7,200 millirem is -  
22 - is committed effective dose equivalent.

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

24 **MR. FARVER:** So we're not really sure what that  
25 7,200 is, but it probably is not the dose --

1 external dose.

2 **MR. HINNEFELD:** Yeah, our dose reconstructor  
3 speculates that it was a -- a fully-executed  
4 correction to the record based on that  
5 committed effective --

6 **MR. FARVER:** That could be.

7 **MR. HINNEFELD:** -- or it could be an  
8 investigation report. I don't know the date of  
9 SL-1, it might be an investigation report  
10 result from SL-1. It could be that. I mean  
11 wouldn't -- you wouldn't necessarily have an  
12 investigation report, but a number of people  
13 responded to SL-1 and there may have been some  
14 assigned doses based on their response --

15 **MR. GRIFFON:** I mean don't we -- don't we need  
16 to know? This is kind of a significant little  
17 dose.

18 **MR. HINNEFELD:** Well, I can -- I can find out.  
19 Just give me some time. I can find out the  
20 date of SL--

21 **MS. MUNN:** Wikipedia says January 3rd, 1961 --

22 **MR. HINNEFELD:** '61? Oh --

23 **MS. MUNN:** -- we started --

24 **MR. GRIFFON:** 1961.

25 **MR. HINNEFELD:** -- '58 was the Y-12

1           criticality.

2           **MS. MUNN:** Yeah.

3           **MR. HINNEFELD:** '58 was Y-12 criticality.

4           **MR. GRIFFON:** Right.

5           **MS. MUNN:** Yeah. After shut down.

6           **MR. GRIFFON:** (Unintelligible)

7           **MS. MUNN:** Well, you know, it's the easiest  
8 thing to get to --

9           **MR. HINNEFELD:** Probably easiest to fin--  
10 easier to find in the site profile.

11          **MS. MUNN:** -- absolutely, yeah.

12          **MR. GRIFFON:** Yeah, if we can't get -- oh,  
13 forget it, I won't go there.

14          **MR. FARVER:** Now this one clearly was involved  
15 in an incident in '58.

16          **MR. GRIFFON:** So there was an incident in '58?

17          **MR. FARVER:** Yes.

18          **MR. GRIFFON:** I mean my question is if this is  
19 some sort of corrected dose or -- you know, I  
20 think we -- we want to know the details, don't  
21 we?

22          **MR. FARVER:** Actually that week of '58,  
23 incident on March 20th, so the period that  
24 we're talking about is March 16th through March  
25 25th of 1958.

1           **MR. GRIFFON:** I mean if this -- if this  
2           measurement and then they corrected -- I don't  
3           know. I don't know what the scenario is, so...

4           **MR. HINNEFELD:** Well, all this stuff that are  
5           throw in there -- our -- what we put in our  
6           response, all the stuff we throw in there, is  
7           sort of -- kind of things to say hey, look,  
8           there are all these reasons to believe that we  
9           put this dose in twice, 'cause we put it on the  
10          internal side -- right?

11          **MS. MUNN:** Uh-huh.

12          **MR. HINNEFELD:** -- and we also put it on the  
13          external side because we think they screwed up.  
14          We think they botched the correction. But we  
15          put it in both times. You know, we didn't rely  
16          on all this -- all this long discussion that we  
17          lay out here about the (unintelligible), we  
18          didn't rely on that to exclude it -- half of it  
19          and say it's in the record twice. We're  
20          putting it in twice, even though we think it's  
21          half of -- might be wrong. So I mean that's --  
22          that's the nature of this whole discussion. I  
23          -- you know --

24          **MR. GRIFFON:** Yeah, but if there -- if there's  
25          an incident report, you know, and --

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

2           **MR. GRIFFON:** I don't know, I --

3           **MR. HINNEFELD:** -- why would you expect it to  
4           be any better than this -- than what we got  
5           from their exposure history? I mean, to me --

6           **MS. MUNN:** Shouldn't be.

7           **MR. HINNEFELD:** -- to me, it's -- it's -- I'm  
8           hard-pressed to find -- you know, with -- this  
9           is -- this is a really full explanation. I  
10          think it's kind of speculative, but it's  
11          speculative that well, we included it. Maybe  
12          it's not as -- you know, maybe it's true and we  
13          should have included it anyway, and maybe it --  
14          maybe someone did decide the incident report  
15          that they had 7,200 or 7,000 from that incident  
16          that's described, even though from our reading  
17          of it -- a report of that incident, we would  
18          say you couldn't have -- hadn't spent that much  
19          time, 46 hours in that high dose rate, in order  
20          to get this -- the highest measurable dose rate  
21          in order to -- to get this dose, so --

22          **MR. GRIFFON:** So you have looked into the  
23          incident --

24          **MR. HINNEFELD:** Yeah.

25          **MR. GRIFFON:** -- yeah. Where was the incident?

1           Where --

2           **MR. HINNEFELD:** The -- I don't think the  
3           response says --

4           **MR. GRIFFON:** -- was it ANL or was it on the  
5           Idaho side?

6           **MR. FARVER:** It would be on the Idaho side in  
7           '58. Probably, I believe that's where he  
8           worked -- yes, ICPP.

9           **MR. GRIFFON:** CPP, yeah, sounds like a CPP  
10          technical.

11          **MR. FARVER:** Uh-huh.

12          **MR. GRIFFON:** I mean I'd be -- I'd be curious  
13          to see -- you have dose rates and stuff from  
14          this apparently. I'd be curious to know if --  
15          if he was wearing a dosimeter and if they said  
16          they -- did they throw that result out or did  
17          they -- you know.

18          **MR. HINNEFELD:** Well, there -- there could be a  
19          limit on how much we'll learn -- I mean we can  
20          try to find out. You know, my view is -- you  
21          know, in terms of this finding, how you want to  
22          treat this finding, you know, we'll go to  
23          headquarters and we will ask, you know, about  
24          the Argonne question --

25          **MR. GRIFFON:** Yeah, --

1           **MR. HINNEFELD:** -- could there still be some  
2           stuff in Chicago. We can -- we have clarify  
3           the site profile that the -- that the responses  
4           from Idaho include, you know, all parts of  
5           Idaho that are included, so we can do that kind  
6           -- we can do those things.

7           **MR. GRIFFON:** I guess -- I mean my -- I -- I  
8           don't know --

9           **MR. HINNEFELD:** You know --

10          **MR. GRIFFON:** -- my feeling is that, you know,  
11          you say the dose doesn't appear to be based on  
12          a dosimeter result, but it's a high number and  
13          we put it in there twice so it should be good  
14          enough. I don't know if I'm -- I'm very  
15          comfortable with, you know, just saying --

16          **MR. HINNEFELD:** Well, I understand, I guess.  
17          You understand, though, when -- when we do  
18          these things, and for that matter when we  
19          prepare responses in these discussions, we're  
20          spending resources that are not doing dose  
21          reconstructions for claimants, not evaluating  
22          SEC petitions --

23          **MR. GRIFFON:** I understand.

24          **MR. HINNEFELD:** -- so we're competing with some  
25          other tasks to do this. And so now if we -- if

1 we look -- if we try to find more information  
2 on this -- on this, which we might, and I -- I  
3 have almost no knowledge of how effective in  
4 our searches in Idaho, we try to find some  
5 additional information. What's the likelihood  
6 that we're going to learn anything that's going  
7 to be useful broadly or what's -- learn  
8 anything that's going to make it -- this case,  
9 even --

10 **MR. GRIFFON:** Right.

11 **MR. HINNEFELD:** -- you know, be unfavorable,  
12 you know, what we've done on this -- this  
13 (unintelligible).

14 **MR. GRIFFON:** What type of case was it? What -  
15 - what --

16 **MR. HINNEFELD:** What's the type of --

17 **MR. GRIFFON:** -- cancer type and POC?

18 **MR. FARVER:** Appendix.

19 **MR. HINNEFELD:** Appendix?

20 **MR. FARVER:** POC --

21 **MR. HINNEFELD:** I would not think the POC was  
22 very high.

23 **MR. FARVER:** -- 46 percent.

24 **MR. GRIFFON:** Yeah.

25 **MR. HINNEFELD:** 46? Really?

1           **MR. GRIFFON:** Wow.

2           **MR. HINNEFELD:** On an appendix?

3           **UNIDENTIFIED:** (Unintelligible) overestimate.

4           **MR. GRIFFON:** That was a pretty  
5           over(unintelligible) --

6           **MR. HINNEFELD:** He must have got a lot -- I  
7           mean we must have put a lot of (unintelligible)  
8           dose reconstruction.

9           **MR. FARVER:** Yeah, it was a combination of  
10          claimant favorable and maximizing, so it's...

11          **MR. GRIFFON:** Well, that -- that's -- that's --  
12          the question is, you know, it would appear to  
13          be claimant favorable because you got a high  
14          POC on the appendix, you know.

15          **MR. FARVER:** How about if we --

16          **MR. GRIFFON:** That's like a circular argument  
17          to me, too. I mean you -- you just assume --

18          **MR. FARVER:** If we look at that --

19          **MR. GRIFFON:** -- that these doses couldn't have  
20          happened.

21          **MR. FARVER:** If you let us look at that --

22          **MR. GRIFFON:** Yeah.

23          **MR. FARVER:** -- 118.1, and like I say, most of  
24          the others will probably go away with --

25          **MR. GRIFFON:** Right, the others I think are the

1 ANL issues that --

2 **MR. FARVER:** Yeah, resolving the ANL issue --

3 **MR. GRIFFON:** Yeah.

4 **MR. FARVER:** -- how do you find it, when do you  
5 look for it, who do you ask.

6 **MR. GRIFFON:** But the 118.1 is a little  
7 different than --

8 **MR. FARVER:** Right, let us -- let us look at  
9 that and we'll compare it with responses is  
10 because I'm looking at our initial finding goes  
11 into the type of film that was used in  
12 dosimeter, and it is surrounding an incident,  
13 so let's --

14 **MR. GRIFFON:** Can I ask is -- 'cause Scott  
15 seems to have some of the -- I mean is this  
16 incident report on the -- in the individual's  
17 file?

18 **MR. SIEBERT:** Yes.

19 **MR. GRIFFON:** Okay, so SC&A is --

20 **MR. SIEBERT:** It's one of the responses from  
21 the DOE.

22 **MR. GRIFFON:** Okay, so SC&A has this -- maybe  
23 look at that further. I'm not asking Stu to  
24 commit more resources to looking for more data,  
25 maybe just let -- let --

1           **MR. FARVER:** Not on this one. I believe it is  
2 in the file. I thought I remembered seeing it.

3           **MS. MUNN:** The incident report --

4           **MR. GRIFFON:** For now let's just keep it with  
5 SC&A, look further at it compared to the  
6 incident and, you know, I'm happy with that.  
7 And the other -- the other ones are ANL issues  
8 I believe we can step down on, but I think just  
9 to follow up with headquarters would be a good  
10 -- good approach to that and they -- they might  
11 go away otherwise.

12           **MR. CLAWSON:** That -- that may help you in your  
13 site profile, too, because you're going to see  
14 a lot of petitioners that that question's  
15 always come up, but going back and forth like  
16 that, all of a sudden now there's big blanks.

17           **MR. GRIFFON:** Can I ask one question on -- and  
18 it may be a silly question -- on 118.2, that is  
19 -- it might just be the font and it might mean  
20 -- it might necessitate me getting glasses out,  
21 but is that -- that's 1,818 millirem or 1.8  
22 millirem?

23           **MR. CLAWSON:** 1,818 millirem.

24           **MR. SIEBERT:** (Unintelligible)

25           **MR. GRIFFON:** Oh, it is 18, okay. I was going

1 to say that's awful precise for -- so it's 18.

2 **MR. SIEBERT:** Since it's underlined

3 (unintelligible) comma there.

4 **MR. GRIFFON:** Yeah, yeah. That's sad that I  
5 can't see that. Okay, anyway.

6 **MS. MUNN:** You have our sympathies.

7 **MR. GRIFFON:** So going on -- on to the other  
8 ones, Doug, it -- you know, I know we're coming  
9 up on the lunch hour, too, but I don't want to  
10 rush through these if we -- are these mostly  
11 ANL West issues, the 118.2 and 118.3?

12 **MR. FARVER:** Yes, 18.2, 18 -- 118.3 --

13 **MR. GRIFFON:** Now 118.4, the neutron dose --

14 **MR. FARVER:** -- 118.4 --

15 **MR. GRIFFON:** You're saying at a reactor  
16 facility they wouldn't have added in neutron  
17 do-- they wouldn't have any reason for neutron  
18 exposures? Stu, is that what I'm understanding  
19 from the response?

20 **MR. HINNEFELD:** That is what the response is,  
21 and that's what the site profile -- I looked  
22 this up in the site profile --

23 **MR. GRIFFON:** Yeah.

24 **MR. HINNEFELD:** -- and (unintelligible) is not  
25 listed as one of the locations for neutron dose

1 -- 'cause I looked it up. I said  
2 (unintelligible) --

3 **MR. GRIFFON:** Yeah. I mean why? I could see  
4 maybe low, but --

5 **MR. HINNEFELD:** I mean I can -- I can get some  
6 folks who know about such things probably to  
7 chime in on why that would be.

8 **MR. GRIFFON:** Yeah.

9 **MR. HINNEFELD:** But I just -- you know, I got  
10 it and I didn't take it out -- you know, it was  
11 either not send it over or send it over like  
12 this, and the site profile does read as it  
13 says. I mean in the site profile  
14 (unintelligible) is not one of the neutron  
15 exposure areas.

16 **MR. FARVER:** Right, we don't dispute that. I  
17 think --

18 **MS. MUNN:** I wouldn't expect.

19 **MR. FARVER:** -- what it came down to was since  
20 we didn't receive the dosimetry data for ANLW,  
21 we can't say that the missed doses --

22 **MR. GRIFFON:** Right.

23 **MR. FARVER:** -- were properly assessed.

24 **MR. HINNEFELD:** So what -- your question really  
25 hits to the site profile.

1           **MR. GRIFFON:** Really the site profile, yeah.

2           **MR. HINNEFELD:** Okay.

3           **MR. GRIFFON:** I mean I think the person  
4 followed -- you're saying the person followed  
5 the right protocol --

6           **MR. HINNEFELD:** They followed the site profile.  
7 We've never -- we've never been satisfied with  
8 that response, you know. When -- when we get a  
9 DR finding and say well, we did it in  
10 accordance with the procedure, I say well, that  
11 doesn't answer the mail, you know --

12          **MR. GRIFFON:** Yeah, yeah.

13          **MR. HINNEFELD:** -- so we -- we're never really  
14 satisfied with that response. In this case I  
15 sent it over because I had no basis not to be  
16 satisfied with the response. The Technical  
17 Basis Document really does say that --

18          **MR. GRIFFON:** Right.

19          **MR. HINNEFELD:** -- and there must be some  
20 reason why it says that, so I'll have to --  
21 we'll -- I'll have to maybe -- I can ask.  
22 Maybe I can just send you what I find out.

23          **MR. GRIFFON:** Or we can -- or -- but it is a  
24 site profile question.

25          **MR. HINNEFELD:** It is a site profile question.

1           **MR. CLAWSON:** John, isn't Idaho of them that  
2 we've got sitting back?

3           **DR. MAURO:** Yeah, we have -- that's been  
4 sitting on the shelf for two years now.

5           **MR. HINNEFELD:** I don't know anything about it.

6           **MS. MUNN:** Well --

7           **MR. HINNEFELD:** Wanda's talking about what EBR  
8 was so --

9           **DR. MAURO:** Experimental Reactor, I mean you  
10 would say no neutrons?

11           **MS. MUNN:** Well -- well, yeah, but you know,  
12 it's --

13           **MR. CLAWSON:** Experimental Breeder Reactor 1.

14           **MS. MUNN:** Yeah, I know it's -- the core is  
15 smaller than a Coke can and it's --

16           **MR. GRIFFON:** Yeah, I'm not saying --

17           **MS. MUNN:** -- unshielded and it's --

18           **DR. MAURO:** It makes you have to look at it --

19           **MS. MUNN:** Well, I -- you know, it's a -- it is  
20 a fast reactor and --

21           **DR. MAURO:** Well, you know, during the break I  
22 could --

23           (Whereupon, Ms. Munn, Dr. Mauro and Mr. Griffon  
24 spoke simultaneously.)

25           **MR. HINNEFELD:** I -- I'm -- I'm completely

1 unfamiliar with EBR-1.

2 **MR. CLAWSON:** You got to -- you've got to look  
3 at the structure of how EBR-1 was designed in  
4 there and I -- to tell you the truth, I -- I'm  
5 questioning and I know there probably wasn't  
6 that much, but the way that was designed I bet  
7 you there were -- were some 'cause if you look  
8 at the configuration of it and where everything  
9 was at, it --

10 **MS. MUNN:** Well, 1 and 2 both were -- were so  
11 easy to walk into, you know, it just -- you  
12 could stand next to them and --

13 **MR. CLAWSON:** Well, 1 especially --

14 **MS. MUNN:** -- things in and out.

15 **MR. CLAWSON:** -- 1 especially.

16 **MS. MUNN:** But it was still --

17 **MR. CLAWSON:** Well, if you were the guy with  
18 the axe to cut the rope...

19 **MS. MUNN:** Not on 1, not on EBR-1, no, I'm  
20 sorry, I -- Chicago is a little bit further  
21 from there than EBR-1.

22 **MR. GRIFFON:** Well, at least follow -- you  
23 know, that -- that's the only question.

24 **MS. MUNN:** Might be a good idea to check it  
25 out.

1           **MR. GRIFFON:** If it's -- if it's -- really can  
2 be shown that it's de minimis, then I think,  
3 you know, we close it. Right?

4           **MR. HINNEFELD:** Well, I'll find out what we  
5 know about it. It may get down to  
6 (unintelligible).

7           **MR. GRIFFON:** 118.5?

8           **MR. FARVER:** That goes back again to we don't -  
9 - we can't tell if they assessed the chronic  
10 doses properly because we don't have -- we may  
11 not have all the data from ANLW. I -- I don't  
12 think we're disagreeing that if this is all the  
13 data you have, then what you did is incorrect.  
14 I mean we're not -- we're not arguing that,  
15 we're just saying there might be more data out  
16 there and we can't tell unless you look.

17           **MR. GRIFFON:** I'm a little confused.

18           **MR. HINNEFELD:** Wait a minute, there's a --

19           **MR. GRIFFON:** Your response seems to be --

20           **MR. HINNEFELD:** There's a .5 --

21           **MR. GRIFFON:** -- talking about something else,  
22 doesn't it?

23           **MR. HINNEFELD:** Yeah, there's a -- you were  
24 talking about .6, or -- there's a .5 that we  
25 included in --

1           **MR. FARVER:** Oh --

2           **MR. HINNEFELD:** Was this the one?

3           **MR. FARVER:** -- this is -- this is where --  
4           yes.

5           **MR. HINNEFELD:** Yeah, this -- the matrix I was  
6           working from -- I don't know if this was the  
7           final matrix or not, the .5 that I sent was in  
8           the draft -- apparently was in a draft report,  
9           it was in an early version of the matrix, and  
10          so it's been removed actually, and so Doug was  
11          talking about what's -- what's numbered as .6 -  
12          -

13          **MR. GRIFFON:** Okay.

14          **MR. HINNEFELD:** -- on this report 'cause .5 was  
15          removed -- withdrawn by SC&A.

16          **MR. GRIFFON:** Okay, but -- so the response is  
17          to a removed finding. Right?

18          **MR. HINNEFELD:** Yeah.

19          **MR. GRIFFON:** That's the -- the -- that's the  
20          AP versus exotropic geometry in question?

21          **MR. HINNEFELD:** Yeah, for an environmental  
22          exposure situation.

23          **MR. GRIFFON:** And you agree with that?

24          **MR. FARVER:** Yeah, that's --

25          **MR. GRIFFON:** But that -- but what I'm looking

1 at, this 118.5 on my matrix, the summary of the  
2 finding talks about internal dose, so I'm a  
3 little confused. Is that -- is that the  
4 finding for 118.6?

5 **MR. FARVER:** Yes.

6 **MR. GRIFFON:** Okay. So did things get shifted  
7 here or what?

8 **MR. HINNEFELD:** Yes, I -- I screwed that up  
9 somehow.

10 **MR. GRIFFON:** Right.

11 **MR. FARVER:** Stu's findings aren't the same as  
12 your findings. How's that?

13 **MR. GRIFFON:** Okay. So -- so this goes away,  
14 118.5 is dropped by SC&A, and then -- so let --  
15 let's move on to 118.6 then, I guess.

16 **MR. FARVER:** 118.6 where the finding is  
17 assigned internal dose appears low. Is that  
18 what you have?

19 **MR. GRIFFON:** Well, I have -- now if --

20 **MR. FARVER:** I'm just wondering which matrix  
21 you're going by, Stu's matrix or --

22 **MR. GRIFFON:** I have one that says assigned  
23 1958 internal dose appears low.

24 **MR. FARVER:** The doses appear low, okay. You  
25 want to go -- we'll do that one.

1           **MR. GRIFFON:** All right. But what -- what is  
2 this other one, unclear whether all chronic  
3 intakes were properly accounted for in the  
4 internal dose?

5           **MR. FARVER:** This is where, since we didn't  
6 receive the data, we don't know if there's  
7 outstanding bioassay data, we can't tell --

8           **MR. GRIFFON:** Well, what finding number is that  
9 one? Is that also in 118.6 or what -- what is  
10 -- I'm getting a little confused on the matrix.

11          **MR. FARVER:** On the report it's 118.5-F.2.

12          **MR. GRIFFON:** Right.

13          **MR. FARVER:** Okay. Now that's the correct  
14 finding number, but in a draft report 118.5 had  
15 to do with the dose conversion factors.

16          **MR. GRIFFON:** Okay, so -- so NIOSH's response  
17 doesn't --

18          **MR. FARVER:** During our conference --

19          **MR. GRIFFON:** -- respond to that one obviously.

20          **MR. FARVER:** During our conference calls we  
21 probably said all this is taken care of, and we  
22 deleted it from the draft report.

23          **MR. GRIFFON:** Okay.

24          **MR. FARVER:** So in the final report, it's not  
25 there about the -- the isotropic --

1           **MR. GRIFFON:** Right.

2           **MR. FARVER:** -- dose conversion factors.

3           **MR. GRIFFON:** But this 118.5.F-2 still is  
4 there.

5           **MR. FARVER:** It's still there.

6           **MR. HINNEFELD:** So I think you -- if you read  
7 in -- what -- the matrix I sent, if you drop  
8 down one --

9           **MR. FARVER:** Right, he's off by one.

10          **MR. GRIFFON:** You're responding to the --

11          **MR. HINNEFELD:** -- my responses are off by one.

12          **MR. GRIFFON:** Just testing us, huh?

13          **MR. HINNEFELD:** When I -- I got to the end -- I  
14 got to the end --

15          **MR. GRIFFON:** All right.

16          **MR. HINNEFELD:** -- and the last finding was --  
17 was that the summary finding? Is that where we  
18 are here -- 18.7?

19          **MS. BEHLING:** Yes, there is a summary finding.

20          **MR. FARVER:** Yes.

21          **MS. BEHLING:** 118.7.

22          **MR. HINNEFELD:** Yeah, and when the res-- so I  
23 got that, and I think what happened was the  
24 summary finding, we would just say well, this  
25 is a summary of our findings and so we're not

1 going to -- so we don't really need to respond  
2 anymore --

3 **MR. GRIFFON:** Yeah, yeah, yeah.

4 **MR. HINNEFELD:** -- and so I think I got that  
5 from the contractor, but I said what the heck,  
6 there's no finding to go with this, what are  
7 they talking about? I guess the summary  
8 finding kind of thing was removed. But -- so I  
9 assumed that that one was removed rather than  
10 the one earlier.

11 **MR. GRIFFON:** I see, okay.

12 **MR. HINNEFELD:** I was tired.

13 **MR. GRIFFON:** Okay, we -- we -- all right, we  
14 know where we're at then. So -- so going back  
15 to the one you were just talking about then --

16 **MR. HINNEFELD:** (Unintelligible)

17 **MR. GRIFFON:** -- well -- well, is there a  
18 discussion on --

19 **MR. HINNEFELD:** Okay, the ones --

20 **MR. GRIFFON:** -- so the response listed under  
21 118.6-G.3, NIOSH's response is really to 118 --

22 **MR. HINNEFELD:** .5.

23 **MR. GRIFFON:** -- .5.F-2, right?

24 **MR. HINNEFELD:** Yes.

25 **MR. GRIFFON:** Okay.

1           **MR. HINNEFELD:** So their finding is about not  
2 getting the ANL West data.

3           **MR. FARVER:** Right.

4           **MR. HINNEFELD:** That's their finding. So our  
5 response, incorrectly located, is that we did  
6 get the ANL West data and it was in the -- what  
7 DOE reported.

8           **MR. FARVER:** Which -- which may be true. I  
9 mean this goes back to the initial --

10          **MR. HINNEFELD:** And our response refers to  
11 specific places in the office and so it's going  
12 to be a pain to go check and see what we sent,  
13 but...

14          **MR. GRIFFON:** Okay.

15          **MR. FARVER:** No, I just want to say we don't  
16 have a problem with what they wrote or how they  
17 did it, if that's all the data that's  
18 available.

19          **MR. GRIFFON:** Yeah.

20          **MR. HINNEFELD:** And -- and it goes back to our  
21 question to headquarters about are we getting -  
22 - does Chicago have anything that we're not  
23 getting.

24          **MR. FARVER:** Right.

25          **MR. HINNEFELD:** Now you're --

1           **MR. GRIFFON:** Then the next one -- your next  
2 response, Stu, should be shifted up one.  
3 Right?

4           **MR. HINNEFELD:** Yeah, the -- verifying 118.6,  
5 you have to look down to 118.7 --

6           **MR. GRIFFON:** Right.

7           **MR. HINNEFELD:** -- for our response.

8           **MR. GRIFFON:** Right.

9           **MR. FARVER:** There really are sever-- our  
10 finding surrounds the 1958 incident that the  
11 employee was involved in.

12           **MR. GRIFFON:** Right. So you're saying you  
13 averaged the data and you think that SC&A  
14 looked at the highest, is that --

15           **MR. HINNEFELD:** I'm not real sure. I think --  
16 I think we -- we need to see the IMBA file or -  
17 - or whatever --

18           **MR. GRIFFON:** So can we get --

19           **MR. HINNEFELD:** -- was done to --

20           **MR. GRIFFON:** -- both -- can we get you guys to  
21 share IMBA files?

22           **MR. HINNEFELD:** Yeah.

23           **MR. FARVER:** I think we'll look at this one,  
24 too, and our response, what our initial finding  
25 was.

1           **MR. GRIFFON:** I think that needs a follow-up  
2           with a sharing of the analytical files, the  
3           IMBA files, 'cause I -- otherwise we're going  
4           to talk past each other, I think. Right?  
5           So...

6           **MR. HINNEFELD:** Yeah.

7           **MR. GRIFFON:** Yeah.

8           **MR. HINNEFELD:** Yeah, I just think we need to  
9           share IMBA files.

10          **MR. GRIFFON:** All right. Now there's about  
11          four pages of this, I'm -- I'm skimming through  
12          it. Is there anything else to this or just...

13          **MR. HINNEFELD:** Well, it had to do with --

14          **MR. GRIFFON:** There's some good specifics in  
15          here, yeah.

16          **MR. HINNEFELD:** -- sample data and some stuff  
17          about comparing a --

18          **MR. GRIFFON:** And whether samples were decay-  
19          corrected, and those various --

20          **MR. HINNEFELD:** Yeah, and --

21          **MR. GRIFFON:** -- there's a lot of --

22          **MR. HINNEFELD:** -- looks like there's a  
23          typographical error in the secondary record  
24          that we got from DOE --

25          **MR. GRIFFON:** Right.

1           **MR. HINNEFELD:** -- and so -- so there's --

2           **MR. GRIFFON:** So -- so can consider all this  
3 looking at, yeah.

4           **MR. HINNEFELD:** -- there's a lot of stuff to  
5 look at.

6           **MR. FARVER:** Yeah, it'll take time to look at  
7 all this and --

8           **MR. HINNEFELD:** And we'll ship our IMBA files  
9 then over --

10          **MR. GRIFFON:** That'll be good, okay. Great.  
11 Now, I -- I really would like to get through  
12 this matrix, I think we're almost done now,  
13 looking ahead here. I think we are done,  
14 unless anybody else finds other -- this little  
15 table at the very end, also -- I'll point that  
16 out to -- I'm sure Doug saw it, but on the last  
17 page, it goes back to finding 118.7 of that  
18 same case, so -- but were there any others  
19 after 118 that -- that we had?

20          **MR. HINNEFELD:** I don't think there's any.

21          **MR. GRIFFON:** I don't think so. Wanda I'm  
22 asking 'cause she's looking at her old notes.  
23 I just want to make sure.

24          **MS. MUNN:** I don't think so.

25          **MR. GRIFFON:** 119 or 120, if you have anything.

1 I don't in my notes, so --

2 **MS. MUNN:** I have agreed --

3 **MR. GRIFFON:** Okay.

4 **MS. MUNN:** -- on 119 --

5 **MR. GRIFFON:** Yeah, I think we had agreement on  
6 those.

7 **MS. MUNN:** -- yeah, and NIOSH will review  
8 language in the DR report template  
9 (unintelligible) nothing.

10 **MR. GRIFFON:** Okay. I think it's time for a  
11 lunch break, and if we could re-- reconvene  
12 1:20, is that -- gives us an hour.

13 **DR. WADE:** Okay, for those on the phone, we're  
14 going to take a lunch break, reconvene at 1:20.  
15 We're going to break the line now and then call  
16 back in at 1:15. Okay?

17 (Whereupon, a recess was taken from 12:20 p.m.  
18 to 1:24 p.m.)

19 **DR. WADE:** This is the subcommittee conference  
20 room and we're ready to begin. Let me just  
21 verify -- Dr. Poston, are you still with us?

22 (No responses)

23 Dr. Poston?

24 (No responses)

25 **MR. GRIFFON:** I think he might have had a --





1 and the dose they used was not consistent with  
2 the technical ba-- with the numbers in Table 5-  
3 7 of the technical basis, so there's a little  
4 difference in values used. So that was the  
5 gist of the finding.

6 And then NIOSH provided a response. I have one  
7 dated from May 30th --

8 **MR. HINNEFELD:** Well, it's just going to take  
9 me a while. I'm trying to look at Scott's real  
10 quick so I can speak but I'll be on -- I'll  
11 have my own here pretty soon -- well, not  
12 pretty soon, the way it (unintelligible).

13 **MR. FARVER:** And I'm ok-- we're okay with their  
14 finding -- with their response.

15 **MR. GRIFFON:** Okay. Well, that may save you a  
16 lot -- a lot of description, Stu.

17 **UNIDENTIFIED:** (Off microphone)  
18 (Unintelligible) the answer.

19 **MR. GRIFFON:** Yeah.

20 **MR. HINNEFELD:** Well, I guess our response --  
21 part of our response was the Pinellas TBD  
22 wasn't yet --

23 **MR. FARVER:** Correct.

24 **MR. HINNEFELD:** -- available at the time --  
25 when the dose reconstruction was done --

1           **MR. GRIFFON:** Right.

2           **MR. HINNEFELD:** -- so they used another  
3           technique which is, I think, suitable, I guess.  
4           I'm -- I'm still -- I'm paraphrasing it from  
5           looking at this. I don't have everything up  
6           yet.

7           **MS. MUNN:** Finding number again is 138?

8           **MR. GRIFFON:** 138.1, yes. It's on page 60 on  
9           my printout of your -- sometimes that doesn't  
10          work, but...

11          **MS. MUNN:** It doesn't.

12          **MR. GRIFFON:** Yeah. So -- this is a  
13          compensable claim, too, right?

14          **MR. FARVER:** Right.

15          **MR. GRIFFON:** So -- yeah.

16          **MR. FARVER:** And it looks like NIOSH went back  
17          and recalculated the doses, and they did change  
18          it, but it was still over 50 percent.

19          **MR. GRIFFON:** Right, still be compensable. So  
20          I think there's agreement on this, Stu. I  
21          don't want to get ahead of you if you -- if  
22          you're --

23          **MR. HINNEFELD:** Okay.

24          **MR. GRIFFON:** And I don't think there's any  
25          action, really, because they -- this was prior

1 to the TBD and the TBD is appropriate. Right,  
2 Doug? Is that --

3 **MR. FARVER:** Yes.

4 **MR. GRIFFON:** No further action. 139.1 is also  
5 a Pinellas case, according to my notes.

6 **MR. HINNEFELD:** He asked me to take a little  
7 (unintelligible) may take a little more  
8 (unintelligible) maybe (unintelligible)  
9 complicated (unintelligible) don't agree with  
10 it.

11 **MR. GRIFFON:** Yeah.

12 **MR. FARVER:** Well, if you agree it'd be easier.

13 **MR. HINNEFELD:** Yeah. Well, I try to agree  
14 wherever I can. Trust me on that. There was -  
15 - thi-- this relates to an issue of early  
16 dosimetry from Pinellas. Is that correct?

17 **MR. FARVER:** Well, as I read the original  
18 finding, it has to do with records being  
19 received after --

20 **MR. HINNEFELD:** Oh --

21 **MR. FARVER:** -- the DR was completed.

22 **MR. HINNEFELD:** -- records received after it  
23 was completed, okay.

24 **MR. GRIFFON:** Right.

25 **MR. HINNEFELD:** Okay. And that did in fact

1           happen. With Pinellas we had some data that we  
2           found -- I think it was in the Atlanta Records  
3           Center -- that we did not get. It was personal  
4           exposure information we didn't get when we made  
5           the request for Pinellas exposure records.  
6           We've since captured those now and linked them  
7           to the file, so I mean it's not a lingering  
8           issue, but that's why this dose -- this dose  
9           reconstruction didn't have that additional  
10          information. We just -- you know, and so the -  
11          - the site -- if DOE doesn't reply with it, you  
12          (unintelligible) DOE doesn't have  
13          (unintelligible).

14         **MR. FARVER:** There seems to be some questions  
15         about the actual data that was received, the  
16         units weren't there, what -- one had a -- one  
17         entry was listed as a one without a unit, so  
18         how do you interpret that. And I guess what it  
19         comes down to is we -- we had felt that you  
20         should find out what these records mean.

21         **MS. BEHLING:** I believe there were also several  
22         entries that had just an asterisk, and I'm not  
23         sure there was any explanation for what that  
24         asterisk meant, either.

25         **MR. FARVER:** Correct, that's another undefined

1 term. Of the 61 entries, 21 had an asterisk  
2 and 40 had 0.000 -- entries for whole body  
3 count -- whole body readings.

4 **MR. HINNEFELD:** Well, I guess this -- you know,  
5 the issue here would, I think, speak to the  
6 Pinellas site. You know, it's not this  
7 specific claim issue, it's a Pinellas site  
8 issue.

9 **MR. FARVER:** Correct.

10 **MR. HINNEFELD:** It may be appropriate to  
11 transfer this to Pinellas site profile, which I  
12 -- if I'm not mistaken, is getting underway  
13 now. Right?

14 **DR. MAURO:** Yeah, there's a --

15 **MR. HINNEFELD:** Have you finished your review?

16 **DR. MAURO:** -- yeah, there's -- there is a  
17 review, there's a -- there's a workgroup now.

18 **MR. HINNEFELD:** I believe there's a workgroup,  
19 but we have a person assigned, I know.

20 **DR. MAURO:** Yeah, Phil's -- I think Phil --

21 **MR. HINNEFELD:** Phil might be the chairman.

22 **DR. MAURO:** I have to check.

23 **MR. HINNEFELD:** And so it may be something to  
24 hand there, and this whole issue of do we --  
25 are we getting from DOE a complete set of

1 Pinellas records.

2 **DR. MAURO:** If I recall, one of the comments on  
3 the site profile was we believe that there are  
4 other records centers where Pinellas --

5 **MR. HINNEFELD:** Okay, good. Good.

6 **DR. MAURO:** -- exist, and we left it at that.

7 **MR. GRIFFON:** So for this particular case,  
8 since I'm not -- well, I'm just looking at the  
9 matrix, did you use a coworker to fill in gaps  
10 or what -- how would -- how are --

11 **MR. HINNEFELD:** I'd have to -- we'll have to do  
12 some more research on that. Do you remember,  
13 Doug?

14 **MR. GRIFFON:** Maybe Doug had that up, I don't  
15 know.

16 **MR. FARVER:** No, I don't remember.

17 **MR. GRIFFON:** It seems to me at least part of  
18 our action will be defer it to the site profile  
19 group, but I don't want to lose the whole thing  
20 if -- if there's something --

21 **MR. HINNEFELD:** Of course to the extent -- I  
22 mean changes -- you know, universal changes to  
23 Pinellas go back to all the sites and all the  
24 cases, including this one, so it won't be lost  
25 to the benefit of this claim.

1           **MR. FARVER:** Looks like it was assumed that the  
2 employee was not monitored.

3           **MR. HINNEFELD:** Okay. That's usually what's  
4 happened, and I don't know if we used coworker  
5 or some other model.

6           **MR. FARVER:** And only assigned external dose  
7 for occupational medical and on-site ambient.

8           **MR. HINNEFELD:** And there were a lot of people  
9 at Pinellas that were not monitored. There is  
10 a lot of -- it was a --

11          **MR. GRIFFON:** Right.

12          **MR. HINNEFELD:** -- it was a, quote, low dose  
13 site, but --

14          **MR. FARVER:** Correct.

15          **MR. HINNEFELD:** -- always in quotes, low dose  
16 site in quotes.

17          **MR. FARVER:** But then the monitoring data  
18 showed up later --

19          **MR. HINNEFELD:** Yeah.

20          **MR. FARVER:** -- and apparently no changes were  
21 made.

22          **MR. HINNEFELD:** You know, it strikes me that  
23 we've even recently heard that perhaps other  
24 data that was stored someplace that might be  
25 Pinellas -- actually, I think it was a -- I

1 think it's somewhere in the southwest. I want  
2 to say it's in Albuquerque or Los Alamos. I  
3 think it might be Albuquerque. So I think -- I  
4 don't know how much farther we can go on the  
5 specific --

6 **MR. GRIFFON:** Right.

7 **MR. HINNEFELD:** -- on this specific issue in  
8 this discussion. It's certainly an issue for  
9 site profile, and it's good to hear that it's  
10 already on the findings list so we don't have  
11 to make any heroic effort to make sure it gets  
12 there. And I just don't know that I have a  
13 good -- a good story to tell today, you know.  
14 I think our response is a, you know, hey, we --  
15 we did the dose reconstruction with what we  
16 had, you know, and our experience with DOE  
17 almost everywhere is DOE sends you what they  
18 have. I'm sure Pin-- although Pinellas isn't  
19 there anymore, I'm not -- do you know who we  
20 get our records from? They went to -- I think  
21 they actually went to Al-- I think the Pinellas  
22 records actually went to Albuquerque. I think  
23 that's -- I think we would go to Albuquer-- the  
24 -- the DOE point of contact for Albuquerque --

25 **MR. CLAWSON:** Well, I --

1           **MR. HINNEFELD:** -- for Pinellas.

2           **MR. CLAWSON:** -- I'm on the working group with  
3 Phil and them and that was part of our problem  
4 was trying to get information and --

5           **MR. HINNEFELD:** Yeah, there's not a Pinellas  
6 office, like you can go to Oak Ridge and you  
7 can go to Hanford and talk to the DOE people,  
8 but there -- you can't do that at Pinellas.  
9 And if I'm not mistaken, Pinellas records and  
10 our requests go to Albuquerque, if I'm not  
11 mistaken -- but I could be mistaken. So -- and  
12 we may have -- like I said, we may have just  
13 encountered some more that we're not getting,  
14 some data we're not getting in the exposure  
15 histories that -- some more Pinellas data,  
16 seems like it might be personal monitoring data  
17 that we're not getting in the exposure -- as  
18 far as we know, we're not getting in the  
19 exposure histories. Could be we are, but we --  
20 it's something -- you know, looks like it's  
21 Pinellas data. So it'll be -- now you -- you  
22 said Kansas City?

23           **DR. MAURO:** I remember a part of our work on  
24 Pinellas was -- there was some feedback about  
25 our interviews with workers that, you know,

1           there might be, in addition to the record  
2           centers that were searched, you know, other  
3           than -- I remember -- I remember they mentioned  
4           the -- Kansas City was mentioned.

5           **MR. HINNEFELD:** Well, there's a Kansas City  
6           records center.

7           **DR. MAURO:** Yeah, and there were others. There  
8           were about three other record centers that were  
9           -- this -- that were indicated should be  
10          explored. Whether there was any truth to that  
11          or not --

12          **MR. HINNEFELD:** Okay.

13          **DR. MAURO:** -- that was a comment, one of the  
14          comments.

15          **MR. HINNEFELD:** Was that in the site profile  
16          review?

17          **DR. MAURO:** That would be in our review, yes.

18          **MR. HINNEFELD:** Okay. Well, that'll be -- I  
19          mean that'll be an effort then for us to  
20          determine. I know we've been to Kansas City  
21          Records Center, but you don't just go to Kansas  
22          City Records Center and look at all the  
23          records.

24          **DR. MAURO:** No.

25          **MR. HINNEFELD:** You go there for a reason, and

1           you usually -- they've got a finding aid or  
2           something, or you tell them these are -- this  
3           is what we're looking for. Now if go for  
4           Pinellas, just 'cause we've been there doesn't  
5           mean anything.

6           **MR. SIEBERT:** (Unintelligible) we get from DOE  
7           (unintelligible).

8           **MR. HINNEFELD:** Okay. Scott has found out that  
9           I'm -- odd -- odd thing just happened, I wasn't  
10          mistaken. We do go to Albuquerque Operations  
11          to get -- to get our exposure histories for  
12          Pinellas. So I think it -- it'll be fruitful  
13          and it'll be a good discussion in the site  
14          profile review. I don't -- I don't know where  
15          we can go with it here.

16          **MR. GRIFFON:** Well, I -- I guess the question  
17          lingering for me on this one is -- and because  
18          I'm not looking at the case --

19          **MR. HINNEFELD:** Yeah, how did we do that?

20          **MR. GRIFFON:** -- well, how did you -- you  
21          didn't assign any dose, is that what I'm  
22          understanding, no external dose, no --

23          **MR. FARVER:** They assigned a medical dose and  
24          ambient dose.

25          **MR. HINNEFELD:** Ambient.

1           **MR. GRIFFON:** Medical and ambient? But no -- I  
2 mean there was no --

3           **MR. FARVER:** No recorded or missed --

4           **MR. GRIFFON:** So somehow you determined that  
5 this person -- I mean I agree, it's a low dose  
6 site. We do have a coworker model for some --

7           **MR. HINNEFELD:** As far as I know, we don't have  
8 a Pinellas coworker --

9           **MR. GRIFFON:** No --

10          **MR. HINNEFELD:** -- model --

11          **MR. GRIFFON:** -- no.

12          **MR. HINNEFELD:** -- as far as I know, but again,  
13 always with the caveat: I can be mistaken.

14          **MR. GRIFFON:** So if you don't find records,  
15 even if an individual was thought to be in the  
16 areas where there could have been exposures,  
17 there's no -- you don't assign dose?

18          **MR. HINNEFELD:** I'd -- I -- I hate to say I  
19 think that there are -- you judge -- if you  
20 judge a person to be unexposed, then you do not  
21 do a coworker dose or (unintelligible) --

22          **MR. GRIFFON:** I guess that's what I'm asking is  
23 that judgment is --

24          **MR. HINNEFELD:** Yeah, there -- there is a co--  
25 for a dose reconstruction, in order to use a

1           coworker dose, you either have to determine  
2           that the person -- as near as you can tell, to  
3           the best of your ability -- was either steadily  
4           exposed, in which case they get a high  
5           percentile of the coworker, or intermittently  
6           exposed, in which case they get a lower  
7           percentile of the coworker. Or you can judge  
8           that --

9           **MR. GRIFFON:** But they --

10          **MR. HINNEFELD:** -- they were not exposed, in  
11          which case they get ambient.

12          **MR. GRIFFON:** But there's -- so somehow that  
13          judgment was made to give --

14          **MR. HINNEFELD:** That judgment --

15          **MR. GRIFFON:** -- ambient.

16          **MR. HINNEFELD:** -- was made somehow.

17          **MR. GRIFFON:** But is there a criteria in the  
18          prof-- in the site profile? Is there --  
19          sometimes you'll lay out, you know --

20          **MR. HINNEFELD:** Sometimes will be --

21          **MR. GRIFFON:** -- certain jobs, certain --

22          **MR. HINNEFELD:** -- in the site profile --

23          **MR. GRIFFON:** -- buildings, whatever.

24          **MR. HINNEFELD:** -- sometimes -- I won't say it  
25          necessarily is in every case, I'm not familiar

1 with Pinellas site profile.

2 **MR. GRIFFON:** Yeah, I guess I'm asking about  
3 this one, but we -- I guess we don't have the  
4 details in front of us.

5 **MR. HINNEFELD:** Realistically, we could -- we  
6 could go -- we could look at the Pinellas site  
7 profile on line. It's out there on our web  
8 site.

9 **MR. GRIFFON:** Yeah, I know.

10 **MR. HINNEFELD:** But that would be kind of a  
11 laborious thing for us to do today.

12 **MR. GRIFFON:** Well, we're going to do site  
13 profile review anyway.

14 **MR. HINNEFELD:** Right.

15 **MR. GRIFFON:** I'm just -- I'm just wondering  
16 whether anything like -- like you said --

17 **MR. HINNEFELD:** I'm not aware --

18 **MR. GRIFFON:** -- pertaining to this case --

19 **DR. MAURO:** You could -- you could pull up the  
20 -- this could be done quickly, if you'd like --  
21 pull up the SC&A Pinellas review and just look  
22 at the findings, the --

23 **MR. HINNEFELD:** Well, it -- I should be able to  
24 do it, but my --

25 (Whereupon, Mr. Hinnefeld and Dr. Mauro spoke

1 simultaneously.)

2 **DR. MAURO:** Yeah, and I recall that particular

3 --

4 **MR. GRIFFON:** I mean what -- what is the --  
5 does anyone have the job title for this  
6 individual?

7 **MR. SIEBERT:** It was maintenance.

8 **MR. GRIFFON:** Maintenance.

9 **MR. HINNEFELD:** Maintenance.

10 **MR. GRIFFON:** So that doesn't -- that doesn't  
11 strike me right off the bat as not exposed, you  
12 know.

13 **MR. HINNEFELD:** Correct. Correct. Of course  
14 there are --

15 **MR. GRIFFON:** Yeah, yeah --

16 **MR. HINNEFELD:** -- exposed -- there are  
17 unexposed maintenance --

18 **MR. GRIFFON:** -- it doesn't -- it doesn't  
19 necessarily mean exposed, either.

20 **MR. HINNEFELD:** At Pinellas, you know, it's --  
21 it was essentially an assembly plant.

22 **MR. SIEBERT:** So maintenance may not  
23 necessarily --

24 **MR. HINNEFELD:** And maintenance -- there can be  
25 a lot of different kinds of maintenance.

1           **MR. GRIFFON:** I agree. I agree. I'm just  
2 saying it's not administrative or it's not --  
3 you know.

4           **MR. HINNEFELD:** It's not like, you know, a site  
5 manager's secretary --

6           **MR. GRIFFON:** Right.

7           **MR. HINNEFELD:** -- which give you a pretty good  
8 --

9           **MR. GRIFFON:** Right.

10          **MR. HINNEFELD:** -- you know, pretty good clue.

11          **MR. SIEBERT:** Yeah, the -- the site profile  
12 dose say based on the review of the available  
13 dosimetry data, employees with any significant  
14 potential external dose exposure appear to have  
15 been routinely monitored. So the bottom line  
16 in the -- in the site profile does say that --

17          **MR. GRIFFON:** They're concluding that if --

18          **MR. SIEBERT:** -- they would have been monitored  
19 --

20          **MR. GRIFFON:** -- exposed.

21          **MR. SIEBERT:** -- if they had an exposure  
22 potential.

23          **MR. GRIFFON:** Yeah.

24          **MR. HINNEFELD:** Oh, yeah, I think at some point  
25 -- at some point we even say that the large

1           number of zero results from Pinellas supports  
2           that.

3           **MR. GRIFFON:** Maybe that -- that part goes back  
4           to a site profile question, were the right  
5           people monitored, et cetera, et cetera.

6           **MR. HINNEFELD:** Yeah, so that's -- that's one  
7           issue. But the broader issue, though, is not  
8           getting everything from DOE.

9           **DR. MAURO:** Yeah, that was the --

10          **MR. HINNEFELD:** That's a much -- that's a very  
11          -- that's a big issue to me.

12          **MR. SIEBERT:** Especially when you're talking  
13          about assumptions.

14          **MR. HINNEFELD:** Yeah.

15          **MR. GRIFFON:** Yeah, right. Okay, so the main -  
16          - so I agree, it's probably not case-specific.  
17          The bulk of this is going to the site profile  
18          review workgroup.

19          Can we move on to 139.2, dare I? This looks  
20          like a more familiar one, so... Doug, this is  
21          just the organ selection -- right? -- for --

22          **MR. FARVER:** Yes, that's correct.

23          **MS. MUNN:** (Unintelligible) agreed  
24          (unintelligible).

25          **MR. FARVER:** And --

1           **MS. MUNN:** Non-corresponding values.

2           **MR. FARVER:** Okay. It has to do with the dose  
3 to the lungs and to the esophagus. I guess our  
4 position was that the table contains two  
5 separate values for the lungs and the esophagus  
6 for the male, and what was used was the lungs  
7 for the female and the esophagus value, which  
8 happens to be the same as the dose to the lungs  
9 for a female, which is different than the dose  
10 to the lungs for a male. So that's -- that was  
11 the basis of the finding saying it was -- being  
12 the wrong organ choice -- improper organ  
13 selection.

14           **MS. MUNN:** Do you recall how significant the  
15 difference was?

16           **MR. FARVER:** Not much, and actually it -- you  
17 know, it was an overestimate. You're looking  
18 at a difference of 1.26 rem compared to 1.35  
19 rem.

20           **MR. GRIFFON:** Right.

21           **MS. MUNN:** You're right, not much.

22           **MR. FARVER:** Right. But I mean our point was  
23 the value was there and it's --

24           **MS. MUNN:** Chose -- chose the wrong one, yeah.

25           **MR. FARVER:** -- chose the wrong one.

1           **MR. HINNEFELD:** Our response says we chose the  
2 right one. I'm still trying to get my brain  
3 around this response.

4           **MS. MUNN:** The response does? You have a  
5 response for 139.2?

6           **DR. MAURO:** It's esophageal cancer --

7           **MR. HINNEFELD:** Yeah.

8           **DR. MAURO:** -- and it -- and used the lung  
9 dose.

10          **MS. MUNN:** Two? I don't see any response other  
11 than -- oh, yeah, there's one.

12          **MR. HINNEFELD:** Yeah, I think the comment was  
13 the person was a male but we used the female  
14 lung dose.

15          **MR. FARVER:** Right.

16          **MS. MUNN:** Uh-huh.

17          **MR. HINNEFELD:** And I believe our re-- our  
18 response says that female lung dose is the  
19 correct esophageal dose given for a male.  
20 That's what our response says.

21          **MS. MUNN:** Uh-huh.

22          **MR. HINNEFELD:** And I would have to look at  
23 OTIB-6 (unintelligible) that says. The only  
24 chest X-ray value (unintelligible) OTIB-6 for  
25 the esophagus were based on doses to the female

1 lung. Okay.

2 **MS. MUNN:** Uh-huh.

3 **MR. HINNEFELD:** Wait a minute -- and be-- no,  
4 this -- this doesn't make any sense, and  
5 because the EE was a male, the male lung doses  
6 were used for the esophagus. Sorry, I'm having  
7 trouble following.

8 **MR. GRIFFON:** Yeah, I know, without --

9 **MS. MUNN:** Yeah.

10 **MR. GRIFFON:** -- seeing the tables, I'm a  
11 little --

12 **MR. FARVER:** Well, the tables can list the male  
13 lung dose, a female lung dose, and then an  
14 esophagus dose, which is the same as the female  
15 lung dose.

16 **MR. HINNEFELD:** Okay.

17 **MR. SIEBERT:** (Unintelligible) difference?

18 **MR. HINNEFELD:** And so did the dose  
19 reconstruction use the lung -- the female lung  
20 dose or did it -- 'cause I can't tell -- I read  
21 our response and in one part we say we used the  
22 --

23 **MR. GRIFFON:** Yeah.

24 **MR. HINNEFELD:** -- female lung dose, but then  
25 because it's a male, we used the male lung

1 dose.

2 **MR. GRIFFON:** Yeah.

3 **MR. SIEBERT:** Used the male.

4 **MR. GRIFFON:** I think you used the male lung  
5 dose.

6 **MR. SIEBERT:** Just used the -- yeah, male lung  
7 dose 'cause it's a lung and esophagus  
8 (unintelligible) use the same dose  
9 (unintelligible).

10 **MR. HINNEFELD:** So the table here only lists  
11 one value, and that's based on the female.  
12 Even our response says that.

13 **MR. FARVER:** Yeah, our finding has to do with  
14 the dose associated with the dose for both the  
15 lung cancer and the esophagus cancer were the  
16 same, were recorded, as it were, and assigned  
17 as the same dose when there are separate ones  
18 listed in the table.

19 **MR. HINNEFELD:** Okay.

20 **MR. SIEBERT:** When you say "the table," which  
21 table are you (unintelligible)?

22 **MR. FARVER:** I believe it's 3.2 -- it's out of  
23 Rev. 2 of OTIB-6 and I don't have Rev. 2; I  
24 have Rev. 3.

25 **MR. SIEBERT:** Yeah, three -- three two is the

1 analogous organs (unintelligible) --

2 **MR. FARVER:** Oh, I'm sorry, it's six five then.

3 **MR. SIEBERT:** It's six five.

4 **MR. FARVER:** And in our finding when we refer  
5 to a Table 4-1 of Rev. 2, and I don't have Rev.  
6 2 of OTIB-6, so I don't know what that table  
7 was.

8 **DR. MAURO:** I recall comparing those tables  
9 (unintelligible) 4.0.1 and (unintelligible)  
10 revised, but I remember comparing those  
11 numbers, and they all say the same.

12 **MR. HINNEFELD:** Okay.

13 **DR. MAURO:** So my guess is whatever one you --  
14 whatever Rev. you have in front of you probably  
15 is the (unintelligible).

16 **MR. HINNEFELD:** This is the (unintelligible).  
17 Says the list of the (unintelligible) --  
18 analog-- analogous organs, is that  
19 (unintelligible) one (unintelligible) for the  
20 esophagus that says female lung?

21 **MR. SIEBERT:** No, it just says lung.

22 **MR. HINNEFELD:** It says lung?  
23 (Whereupon, Mr. Siebert, Mr. Hinnefeld and  
24 others spoke simultaneously.)

25 **MR. FARVER:** On that table, yes.

1           **MR. HINNEFELD:** On that table they're  
2 identical, but on -- this only gives one lung  
3 dose, so what -- where did we get the male and  
4 female lung?

5           **MR. FARVER:** Page 22 of Rev. 3.

6           **MS. BEHLING:** I thought we were actually saying  
7 that selecting the lung in behalf of --

8           **MR. GRIFFON:** Can't hear you, Kathy.

9           **MR. HINNEFELD:** Kathy, can --

10          **MS. BEHLING:** Okay, I'm -- I'm sorry. I  
11 thought we were actually saying that by  
12 selecting the lung, and I -- I don't -- not  
13 sure I see in here any difference that we  
14 initially identified between male and female.  
15 We just said selecting the lung in behalf of  
16 the esophagus resulted in a slight  
17 underestimate of the dose, unless I'm looking  
18 at the wrong thing here. But -- and the  
19 difference between the dose that was entered  
20 was .796 rem as opposed to .84 -- .874 rem, so  
21 it was a little bit of an underestimation of  
22 the dose, at least based on what I'm looking at  
23 here in our original --

24          **MS. MUNN:** But in any case we're talking about  
25 100 millirem. Right?



1 so are you supposed to use the lung dose, the  
2 sex-appropriate or the gender-appropriate lung  
3 dose --

4 **MR. GRIFFON:** Right.

5 **MR. HINNEFELD:** -- or are you supposed to use  
6 that specific number for esophagus; that seems  
7 to be the question.

8 **MR. GRIFFON:** And I believe that's the question  
9 that they're raising, yeah.

10 **MR. HINNEFELD:** Yeah.

11 **MR. GRIFFON:** Okay. So NIOSH will look into  
12 this further. 139.3?

13 **MR. FARVER:** The finding has to do with  
14 inappropriate procedure or method used for  
15 determining ambient dose, saying that the dose  
16 -- ambient dose that was issued was based on  
17 data from 1983 to 1992, summary data, and is  
18 not necessarily representative of the time that  
19 the person worked, from 1960 through 1981.

20 **MS. MUNN:** Essentially the dosage assigned was  
21 too high.

22 **MR. FARVER:** I believe that's their response.

23 **MR. GRIFFON:** Yeah, I think you said even  
24 though we didn't have the data, we -- our  
25 number was higher than -- now that we have the

1 data.

2 **MR. FARVER:** Right, and --

3 **MS. MUNN:** But --

4 **MR. FARVER:** -- and all we said was since we  
5 don't have the data that represents that time  
6 period, we can't tell if it's maximizing or  
7 not.

8 **MS. MUNN:** Yeah, it looks like effective--

9 **MR. FARVER:** And it looks like after this was  
10 done, that's when the site profile's available,  
11 which has more recent data and that data shows  
12 that it was an overestimate. So I'm okay with  
13 that finding -- or with that response.

14 **MR. GRIFFON:** And is this the -- I guess the  
15 only question I would have there is this --  
16 this 100 millirem per year, which I think we  
17 all agree is a pretty low number, is -- is that  
18 including the later Pinellas data that came in?  
19 I guess -- didn't you say you got some Pinellas  
20 data later on?

21 **MR. HINNEFELD:** I don't know. To be honest, I  
22 don't know.

23 **MR. GRIFFON:** But that would be a site profile  
24 question anyway, so --

25 **MR. HINNEFELD:** Yeah, I don't know -- I'm not

1           sure how that -- yeah, it -- it would be -- I  
2           mean it would be -- that -- it would be a site  
3           profile question, I think, but I don't know  
4           about these -- these exposure results that  
5           we're finding. I don't know if they're very  
6           high or not, you know.

7           **MR. GRIFFON:** Right.

8           **MR. HINNEFELD:** So --

9           **MS. MUNN:** Do you know if this was a  
10          compensable case?

11          **MR. HINNEFELD:** I don't right now.

12          **MR. GRIFFON:** Esophageal cancer, is that...  
13          probably low POC.

14          **MR. HINNEFELD:** Yeah, I would not think it  
15          would be very high.

16          **MS. MUNN:** I wouldn't think so but --

17          **MS. BEHLING:** The POC is 44 percent.

18          **MR. SIEBERT:** 44 percent.

19          **MR. GRIFFON:** Oh, 44, really?

20          **MR. SIEBERT:** But it has these -- all these  
21          overestimates --

22          **MS. MUNN:** Overestimates, yeah, if we knew --  
23          overestimate by a factor of four on this  
24          particular -- the one dose (unintelligible)  
25          it's --

1           **MR. GRIFFON:** Was it a -- what kind of cancer?

2           **MS. MUNN:** Esophageal.

3           **MR. GRIFFON:** I mean -- was it multiple or  
4           (unintelligible)?

5           **MR. SIEBERT:** It's a lung and esophageal.

6           **MR. GRIFFON:** Lung and esopha-- that's why,  
7           okay. That makes more sense then.

8           **MS. MUNN:** Yeah.

9           **MR. GRIFFON:** Well, I guess my question there  
10          would be -- back to site profile issue -- is  
11          the ambient -- the ambient model representative  
12          of all the, you know, monitoring data that you  
13          have. It's not a -- it's not an issue for this  
14          case, though, based on what we see here. It is  
15          an overestimate, so...

16          **MS. MUNN:** So we're done with this one for  
17          right -- for our purposes. Right?

18          **MR. GRIFFON:** For the case, yeah --

19          **MS. MUNN:** Yeah.

20          **MR. GRIFFON:** -- I would say. The site  
21          profile's being reviewed anyway, so...

22          Okay, 139.4?

23          **MR. FARVER:** Okay, questions whether  
24          inappropriate assumptions were used for  
25          assigning internal doses. Part of this goes

1 back to are we sure we have all the data, first  
2 part, and then -- it looks like there's about  
3 three parts to the finding. One part has to do  
4 with, you know, the records -- do we have all  
5 the records. The question why there's no  
6 unmonitored exposures plutonium, which was also  
7 present at the site during these employment  
8 period, and I believe NIOSH has a response to  
9 all this.

10 **MS. MUNN:** They said no, there was no internal  
11 plutonium dose.

12 **MR. GRIFFON:** Well, you say there were no  
13 plutonium intakes, so there was plutonium  
14 present at the site.

15 **MS. MUNN:** But no intakes.

16 **MR. GRIFFON:** But no intakes. They were  
17 completely --

18 **DR. MAURO:** If I recall --

19 **MR. GRIFFON:** -- sounds like Nevada Test --

20 **DR. MAURO:** -- there -- there was -- the site.

21 **MR. GRIFFON:** -- Site, yeah.

22 **DR. MAURO:** I'm thinking back to the site  
23 profile again and the plutonium issue. We  
24 raised that, but -- and during our discussions  
25 it became apparent that we were talking about

1 extremely small quantities of plutonium, barely  
2 detectable, on the surface of pits, and it  
3 wasn't as if we were dealing with plutonium the  
4 way we're dealing with it at Rocky, so I  
5 remember there being some discussion on that  
6 during the site profile meeting 'cause we did  
7 raise that as a question. And the outco--

8 **MR. GRIFFON:** For Pinellas?

9 **DR. MAURO:** For Pinellas.

10 **MS. MUNN:** Pinellas.

11 **DR. MAURO:** And the outcome of that was you --  
12 you're right, the -- the potential for any  
13 exposures of plutonium are --

14 **MS. MUNN:** Zilch.

15 **DR. MAURO:** -- nil. Nevertheless, it became an  
16 issue because plutonium wasn't mentioned --

17 **MS. MUNN:** Yeah.

18 **DR. MAURO:** -- as -- there were some traces  
19 there, I don't know if you -- part of that --

20 **MR. GRIFFON:** Well, not (unintelligible).

21 **DR. MAURO:** Okay. But nevertheless, I -- I'm  
22 doing this from my memory from the list when we  
23 had that meeting, so I -- I don't know what  
24 type of -- the response here regarding this to  
25 the effect...

1           **MS. MUNN:** Reliably de minimis, I would think.

2           **MR. FARVER:** Indicates that no plutonium  
3 intakes on the site, therefore no internal  
4 plutonium doses need to be assigned for  
5 Pinellas.

6           **MS. MUNN:** Uh-huh.

7           **DR. MAURO:** I -- that's very compatible with my  
8 memory of the comment we had on the site  
9 profile. Other words, that -- we're dealing  
10 with something that just could not have been an  
11 important contributor. But you know, I'd hate  
12 to do that from memory. It's something we  
13 should look at in, you know, our site profile  
14 review discussions.

15                       My only recollection was the big item  
16 that came up of course was tritium exposure and  
17 tritides, and these other radionuclides were  
18 almost, you know, second order issues that  
19 could have been a problem there but were not of  
20 any significance.

21           **MR. HINNEFELD:** Well, that's certainly my  
22 recollection, but I'm not -- I haven't been  
23 involved in those discussions --

24           **DR. MAURO:** Yeah, I mean I --

25           **MR. HINNEFELD:** -- (unintelligible)

1 discussions. My recollection of Pinellas is  
2 that it's a tritium site --

3 **DR. MAURO:** Yeah.

4 **MR. HINNEFELD:** -- and I think it had maybe  
5 generators, I'm not sure about that. But -- so  
6 I don't --

7 **DR. MAURO:** 239 we're talking about now. The  
8 238, there was -- I'm -- I'm reaching now --

9 **MR. HINNEFELD:** Okay.

10 **MR. GRIFFON:** Let's call it a site profile  
11 issue, I think --

12 **DR. MAURO:** Yeah, let's see how --

13 **MR. GRIFFON:** -- from this standpoint, and if  
14 it's determined that it's de minimis at the  
15 site profile, then it's resolved, yeah.

16 **MS. MUNN:** And site profile and no -- no --

17 **MR. GRIFFON:** Right.

18 **MS. MUNN:** -- context for this case.

19 **MR. GRIFFON:** 139.5 I'm moving on to.

20 **MR. FARVER:** Once again, this comes down to did  
21 they get all the data, is the data adequate to  
22 make a determination of POC.

23 **MR. GRIFFON:** This seems like a summary type of  
24 finding. Right?

25 **MR. FARVER:** It is, it -- it's -- it falls

1 under the summary section.

2 **MR. HINNEFELD:** Well, I think other than the  
3 question of missing monitoring records that  
4 we've already captured elsewhere, I think this  
5 is largely the same.

6 **MR. FARVER:** It is.

7 **MR. HINNEFELD:** There were some -- early on,  
8 before the Pinellas site profile, there were  
9 some cases done with, you know, these whopping  
10 big, you know, ambient doses, and -- and some  
11 big overestimates just to get some cases out.  
12 And -- and did the -- did we have data to  
13 support it? Well, no, not prior to the site  
14 profile. The site profile would provide lower  
15 doses. So it's kind of the same thing we've  
16 been talking -- talking about, I think.

17 **MR. GRIFFON:** So why -- I'm reading your  
18 response -- I mean you said that NIOSH  
19 instructed ORAU to rework nearly all the  
20 Pinellas cases, but not this one.

21 **MR. HINNEFELD:** Well, I don't know why this one  
22 -- I didn't know why this one didn't. What we  
23 decided was -- you know, we were getting these  
24 doses and -- however, these dose  
25 reconstructions I guess would have to -- some

1 of them went, we -- you know, we get comments  
2 from our reviewer, said you know, hey -- hey,  
3 how are we -- can even support this, you know,  
4 we've got these -- these really big doses in  
5 here; what's -- what's the basis for this and  
6 don't they seem awful high, you know, given  
7 what we know. And so we didn't approve -- I  
8 mean ORAU worked them. We held them, so they  
9 didn't go out -- get to DOL or anything, we  
10 didn't approve them. And then we -- you know,  
11 took us a while to -- we have to cogitate. So  
12 once we decided okay, if we're going to get a  
13 site profile, let's just wait until the site  
14 profile is done and then we -- we sent them  
15 back at that point with comments, you know, do  
16 these in accordance with the site profile when  
17 it comes out. And so that's when we sent them  
18 back. Now some of them -- we may not have  
19 caught all of them at that point, or we may  
20 have -- may have already approved -- you know,  
21 have some reviewers approve them before people  
22 started objecting to what they were seeing, and  
23 so that may be why this one didn't get sent  
24 back and they're -- went all through the  
25 process with this big overestimate. You know,

1 I suspect one of those two situations. Either  
2 we didn't catch it when we intended to or some-  
3 - we had already had a reviewer say okay and  
4 sent it on.

5 **MS. MUNN:** Why would we want to do more if we  
6 know the dose is going to (unintelligible)?

7 **MR. GRIFFON:** What?

8 **MS. MUNN:** Why would we want to do more?

9 **MR. GRIFFON:** Oh, I'll -- I'll give you a --  
10 I'll give you a --

11 **MS. MUNN:** Just to respond to --

12 **MR. GRIFFON:** -- I'll give you a easy reason  
13 why. 'Cause the person's at 44 percent, gets  
14 another cancer --

15 **MR. HINNEFELD:** Yeah.

16 **MR. GRIFFON:** -- and they're thinking they're  
17 going to get compensated, then you come back  
18 and say they're at --

19 **MR. HINNEFELD:** Twenty percent, yeah.

20 **MR. GRIFFON:** -- 15 percent, you know. I mean  
21 that's -- it's just a quality question more  
22 than --

23 **MR. HINNEFELD:** And there was -- I mean --

24 **MR. GRIFFON:** -- than a science question.

25 **MR. HINNEFELD:** We all know that there were

1 times when we put out some big overestimates  
2 just -- just to get things done and --

3 **MR. GRIFFON:** I know, I know.

4 **MR. HINNEFELD:** -- exactly what you're telling  
5 them comes back to haunt us.

6 **MS. MUNN:** Uh-huh.

7 **MR. GRIFFON:** But I mean it seems odd that the  
8 --

9 **MR. HINNEFELD:** It seemed like a good idea at  
10 the time.

11 **MR. GRIFFON:** -- it kind of slipped through the  
12 cracks somehow, but you don't really know how,  
13 yeah.

14 **MR. HINNEFELD:** Yeah.

15 **MS. BEHLING:** Excuse me, Mark, can I just make  
16 one other comment -- and I know -- I don't mean  
17 to beat this to death, but if we go back to  
18 finding 139.4, the previous finding, as Doug  
19 indicated there were three aspects to that and  
20 I know it may not have -- we're going to push  
21 this off to the site profile, but the second  
22 aspect of this is, again, this issue of NIOSH  
23 calculated apparently some environmental  
24 internal dose based on what they identified as  
25 hypothetical intakes, and there was no file to

1 support that data. And just to point out this,  
2 in my mind, would be primary data -- primary  
3 data meaning either a workbook or an IMBA file  
4 or something that would support that dose, and  
5 that -- that wasn't included there. I just  
6 wanted to make that point about --

7 **MR. GRIFFON:** Yeah.

8 **MS. BEHLING:** -- 'cause we talked at length  
9 about a lot of the data that sometimes is not  
10 included in the case files.

11 **MR. GRIFFON:** And Stu, you already have that as  
12 sort of an overarching action --

13 **MR. HINNEFELD:** Yeah.

14 **MR. GRIFFON:** -- right? You're going to talk  
15 to ORAU about --

16 **MR. HINNEFELD:** Yeah.

17 **MS. MUNN:** So is the item closed or open? It's  
18 unclear to me.

19 **MR. GRIFFON:** Well, that was -- that was going  
20 back to 139.4, so --

21 **MS. MUNN:** Right.

22 **MR. GRIFFON:** -- you know --

23 **MR. HINNEFELD:** Which we decided was a site  
24 profile issue.

25 **MR. GRIFFON:** Decided it was a site profile

1 issue and this is a separate thing which, I  
2 agree, Kathy, that -- and Stu's making a note  
3 that the -- I mean some sort of file should  
4 probably have been in the case file. Right?

5 **MR. HINNEFELD:** Seems like it.

6 **MR. GRIFFON:** Yeah. So there's no disagreement  
7 from NIOSH on that. That -- that aspect I  
8 think is closed in that NIOSH is going to go  
9 back and, you know, try to work this out with  
10 ORAU on what level -- what files get included  
11 and don't get included. Then 139.5 -- I mean I  
12 don't know -- I don't know whether there's any-  
13 - anything there or not to close.

14 **MS. MUNN:** I don't know what else one can --

15 **MR. GRIFFON:** Right, I don't know what else we  
16 can do on that.

17 **MS. MUNN:** It's been addressed and what was  
18 done at that time is not what will be done in  
19 the future.

20 **MR. GRIFFON:** Right, I mean it's unclear why  
21 that case made it through, but it did. That's  
22 the fact and -- it also seems pretty clear it  
23 was an overestimate, from everything we can  
24 see.

25 **MR. FARVER:** I guess the only way the case

1           would change is if you go back and look at the  
2           Pinellas data and you figure out what the  
3           asterisks mean, and if the employee has some  
4           data that was not considered and you wind up  
5           calculating a photon dose, either recorded or  
6           missed, then -- I guess that was the point,  
7           can't tell if it's adequate because we have  
8           this data lurking out there that we're not  
9           really sure what it means, were not  
10          interpreted.

11         **MR. GRIFFON:** Right.

12         **MR. FARVER:** Which we caught earlier in one of  
13         our earlier findings, so --

14         **MR. GRIFFON:** Right, so these things do overlap  
15         with the site profile, but other things -- you  
16         know, this idea of a maintenance worker, you  
17         know, I'm not necessarily persuaded that that  
18         would have been an unexposed person, you know.

19         **MS. MUNN:** So if we --

20         **MR. GRIFFON:** It could have been, but you  
21         know...

22         **MS. MUNN:** So if we rework this case, does that  
23         resolve the outstanding concerns that SC&A had?

24         **MR. HINNEFELD:** Well, I -- the -- the case,  
25         though -- one of the issues that's relevant

1 here is the exposure data, is there other  
2 exposure data out there, and how do you  
3 interpret --

4 **MR. FARVER:** Right.

5 **MR. HINNEFELD:** -- the pieces that we got.

6 **MR. GRIFFON:** Right.

7 **MR. HINNEFELD:** So until we can do some-- get  
8 some sort of resolution on those, I don't know  
9 that there's much point in going back and doing  
10 anything.

11 **MR. FARVER:** No, no, that would probably clear  
12 out a lot of these findings.

13 **MR. GRIFFON:** Right.

14 **MS. MUNN:** So it still boils down to a site  
15 profile issue. Right?

16 **MR. GRIFFON:** I think so, yeah. Yeah. Okay, I  
17 think we're ready to move on, 140 is pretty  
18 easy to address I think.

19 **MR. FARVER:** We agree on that one.

20 **MR. GRIFFON:** Yeah.

21 **MS. MUNN:** So we're closing that item on 139?

22 **MR. GRIFFON:** It's a site profile, I think.

23 **MR. HINNEFELD:** (Unintelligible) findings.

24 **MS. MUNN:** Yeah, it was a site profile.

25 **MR. GRIFFON:** 141.1? Is this the X-10 site, is

1           that --

2           **MR. FARVER:**   Portsmouth.

3           **MR. GRIFFON:**   Oh, it's Portsmouth.

4           **MR. FARVER:**   Do not properly account for  
5           unmonitored neutron dose.  I guess this is an  
6           issue of Portsmouth where they didn't routinely  
7           monitor for neutrons till about 1997.  We go  
8           back to the response and claim has been re-  
9           evaluated to determine impact, and unmonitored  
10          neutron doses were calculated using both  
11          measured and missed photon doses.  And I assume  
12          they're doing a neutron -- photon to neutron  
13          ratio?  Yes.

14          **DR. MAURO:**   Is -- is that done with a coworker  
15          model developed independent of this or is it  
16          part of -- part of this profile?  I mean --  
17          we've been through that?

18          **MR. GRIFFON:**   Well, it had to be a -- it's an  
19          N/P ratio --

20          **DR. MAURO:**   Yeah.

21          **MR. GRIFFON:**   -- approach.  Right?  So...

22          **DR. MAURO:**   Is that -- is that part of the site  
23          profile or is that something else?

24          **MR. GRIFFON:**   I don't know if you've --

25          **DR. MAURO:**   I know that there was some separate

1 OTIB (unintelligible) might have been  
2 (unintelligible) through this.

3 **MR. HINNEFELD:** There are several OTIBs and I  
4 don't remember which one this falls into.

5 **DR. MAURO:** And whether we reviewed that or  
6 not, could ultimately --

7 **MR. GRIFFON:** Well, it was a glovebox OTIB.  
8 Right? Is that what you're telling me?

9 **DR. MAURO:** There is a -- yeah, but I'm not  
10 sure if it's specific for --

11 **MR. HINNEFELD:** Coworker issue, there's -- I  
12 mean the neutron's a pretty -- neutron and  
13 neutron to photon ratio's kind of a broad issue  
14 --

15 **DR. MAURO:** Yes.

16 **MR. GRIFFON:** Right.

17 **MR. HINNEFELD:** -- kind of pops up everywhere.

18 **DR. MAURO:** Sure.

19 **MR. HINNEFELD:** So this may get wrapped up in  
20 that, to a certain extent. There are a lot of  
21 things that may --

22 **MR. GRIFFON:** Yeah.

23 **MR. HINNEFELD:** -- you know, ancillary or --  
24 you know, may affect this.

25 **DR. MAURO:** The way I see this is that

1           apparently you agree as to neutron exposures is  
2           something that -- it's a valid comment, need to  
3           look at neutrons; you did look at neutrons  
4           using a certain protocol.

5           **MR. HINNEFELD:** Yeah.

6           **DR. MAURO:** However, I -- I presume that we  
7           haven't looked at that --

8           **MR. GRIFFON:** Looked at that protocol --

9           **DR. MAURO:** -- protocol.

10          **MR. GRIFFON:** -- right, right.

11          **MR. FARVER:** Right, because they don't really  
12          go into detail on exactly how they did it, they  
13          just --

14          **MR. GRIFFON:** Right.

15          **MR. FARVER:** -- did it.

16          **MS. MUNN:** So you're going to look at it.

17          **DR. MAURO:** (Unintelligible) action item?

18          **MR. GRIFFON:** Well, it will be a site profile  
19          action, but I don't even know if you've looked  
20          at -- if we've tasked that site profile.

21          **DR. MAURO:** We've -- I have to say that I  
22          recall --

23          **MR. GRIFFON:** Portsmouth?

24          **DR. MAURO:** -- Portsmouth and its OTIBs. Now  
25          whether one of those OTIBs was the neutron to

1 phot-- neutron to photon, I don't know. We  
2 could find out, but right now -- we may already  
3 have something on the record.

4 **MR. HINNEFELD:** Yeah, you did a Portsmouth,  
5 didn't you?

6 **DR. MAURO:** Yeah, we did -- oh, we did  
7 Portsmouth, yeah, but I just don't remember if  
8 part of that was the neutron to photon ratio --

9 **MR. HINNEFELD:** Yeah.

10 **DR. MAURO:** -- and whether or not -- 'cause  
11 that's always a big deal, you know.

12 **MR. HINNEFELD:** Yeah.

13 **MS. MUNN:** And -- that...

14 **DR. MAURO:** What might be helpful is if there  
15 was some clarification on particular protocol  
16 that was followed to get to the neutron dose  
17 here.

18 **MR. GRIFFON:** Right.

19 **DR. MAURO:** Let us know what that is. If it  
20 turns out it's oh, yes, we used the protocol  
21 outlined this -- at this -- then -- then the --  
22 then the ball's in our court --

23 **MR. GRIFFON:** Yeah.

24 **DR. MAURO:** -- to check that.

25 **MR. FARVER:** And if they did it like the other

1 cases and probably took the -- their photon  
2 doses they calculated and multiplied them by a  
3 number.

4 **DR. MAURO:** Yeah, right, and -- some  
5 (unintelligible) --

6 **MR. GRIFFON:** Yeah, but they key is what number  
7 --

8 **DR. MAURO:** What -- what number.

9 **MR. GRIFFON:** -- and was it -- was it  
10 consistent across the whole --

11 **MR. FARVER:** Oh, that's correct, what ratio to  
12 use.

13 **MR. GRIFFON:** Yeah.

14 **DR. MAURO:** But that's the whole -- that's the  
15 whole show.

16 **MR. FARVER:** And where's that document?

17 **MR. GRIFFON:** And how reliable is that ratio,  
18 yeah.

19 **MR. FARVER:** Right.

20 **DR. MAURO:** And it's important 'cause these  
21 neutron doses often contribute significantly.

22 **MR. FARVER:** In this case it probably didn't  
23 matter, POC was about 37 percent.

24 **DR. MAURO:** Oh, yeah.

25 **MR. GRIFFON:** Right. So we're going to --

1 we're going to --

2 **DR. MAURO:** Two-step process.

3 **MR. GRIFFON:** Yeah, NI-- NIOSH will give us  
4 further information on --

5 **MR. HINNEFELD:** We'll write additional --  
6 additional detail on (unintelligible).

7 **MR. GRIFFON:** And then it may still end up with  
8 site profile, but maybe we can try to avoid --  
9 you know, avoid that.

10 **MR. GRIFFON:** Okay, moving on, 141.2?

11 **MR. FARVER:** Questionable assumptions in the  
12 selection of intake regimes. It looks like for  
13 their acute intakes they selected a date before  
14 the bioassay as the intake date, whereas  
15 protocol has been established you use a  
16 midpoint. And the response was claim has been  
17 re-evaluated to consider the impact of the  
18 assumptions.

19 **DR. MAURO:** Okay, so your -- you could -- you  
20 want to talk chronic intake regime, okay.

21 **MR. HINNEFELD:** (Unintelligible) usually  
22 (unintelligible) employment -- employment  
23 period and this apparently is based on the  
24 highest bioassay result, so if that -- the  
25 intake regime overestimates all the other

1 bioassay --

2 **MR. FARVER:** We're okay with their response.

3 **MR. GRIFFON:** And what was the -- my question,  
4 and this probably is a site profile question,  
5 but it says the recycled uranium contaminates  
6 were calculated using ratios for X-700. I  
7 assume that is indeed the highest, or most  
8 conservative, values. Is that correct, or --  
9 and why would 700 be the --

10 **MR. HINNEFELD:** I would -- I would guess that.  
11 We said it's a claimant-favorable assumption so  
12 I would guess that's what it means, but I don't  
13 -- I'm not familiar enough with the site  
14 profile to tell you.

15 **MR. GRIFFON:** But the 700 building, to me, I  
16 wouldn't know if that's spec-- oh, I  
17 (unintelligible), that's more of a site profile  
18 question, I think, but I don't know if you have  
19 any more details at this point on that or...

20 **MR. HINNEFELD:** No, I'd be hard pressed to come  
21 up with any more details about --

22 **MR. GRIFFON:** Does that come up in the site  
23 profile review at all, the questions on  
24 recycled --

25 **DR. MAURO:** Yes, we al-- we alwa-- whenever --

1           **MR. GRIFFON:** So it's already being considered  
2           in the --

3           **DR. MAURO:** Of the -- let me -- a recurring  
4           theme.

5           **MR. GRIFFON:** Yeah.

6           **DR. MAURO:** Whenever -- whenever recycled is an  
7           issue, we -- we usually research the degree to  
8           which the assumptions regarding parts per  
9           billion, you know, how much it was used and --  
10          it's always a question raised, seeing how many  
11          times --

12          **MR. GRIFFON:** Right.

13          **DR. MAURO:** Can't say for sure it's here, but I  
14          wouldn't be surprised.

15          **MR. GRIFFON:** But other than -- other than the  
16          question of the ratios, I think we're  
17          comfortable with this approach as outlined.

18          **DR. MAURO:** Yeah, chronic -- going with  
19          chronic?

20          **MR. GRIFFON:** I agree with that -- yeah, I  
21          agree with that.

22          **DR. MAURO:** Absolutely.

23          **MR. FARVER:** For some reason -- I think the  
24          recycled issue's in your site profile review?

25          **DR. MAURO:** Yeah.

1           **MR. FARVER:** I think that was one of the issues  
2           that was brought up in that, but I can't find  
3           it right now. Okay.

4           **DR. MAURO:** Am I correct that all matters  
5           related to recycled is a global issue that's  
6           being addressed that will have bearing on any  
7           site that had recycled material and whether or  
8           not the assumptions --

9           **MR. GRIFFON:** I wouldn't think so, but --

10          **DR. MAURO:** -- now -- in the --

11          **MR. HINNEFELD:** I don't know. It's possible  
12          that we have a -- feel like we've done the  
13          research of the site, like we got some site-  
14          specific data during --

15          **DR. MAURO:** We go with that.

16          **MR. HINNEFELD:** -- the site profile that --

17          **DR. MAURO:** We're going to go with that.

18          **MR. HINNEFELD:** -- we're going to go with that.

19          **MR. SIEBERT:** That's how the OTIB is written.

20          **MR. GRIFFON:** Okay.

21          **MR. HINNEFELD:** So if there's site-specific  
22          information, the OTIB says use that.

23          **MR. GRIFFON:** I think for Paducah and  
24          Portsmouth you have site-specific -- right? --  
25          that -- yeah.

1           **MR. HINNEFELD:** Should have some, certainly --

2           **MR. GRIFFON:** And then you're going to --

3           **MR. HINNEFELD:** -- certainly should --

4           **MR. GRIFFON:** -- come up with a generic  
5 approach for the other uranium sites, I think,  
6 is...

7           **MR. HINNEFELD:** I -- I would think so.

8           **MR. GRIFFON:** Yeah.

9           **MR. HINNEFELD:** I would think so. You -- you  
10 would think that a lot of these sites would  
11 have had site-specific information that could  
12 be utilized that would be certainly a lot  
13 easier to utilize than -- might -- in that  
14 site-specific information than to try to put it  
15 in general OTIB.

16          **DR. MAURO:** Uh-huh.

17          **MR. HINNEFELD:** I would certainly think that  
18 would be easier.

19          **MR. GRIFFON:** Okay, so I -- I put that the --  
20 that SC&A agrees with response, consideration  
21 of recycled U would be a site profile issue.

22          **DR. MAURO:** Yeah, that's fair enough. And may  
23 -- it may be, may not. I mean, you know, it --  
24 we -- we'll check to see if, you know, it is an  
25 issue --



1 throughout some period of his employment and  
2 that she had records. And I'm not sure if  
3 NIOSH ever looked into that issue or ever  
4 determined if she actually had dosimetry  
5 records.

6 **MR. FARVER:** Right, that was the question, did  
7 you look at the records and compare her records  
8 with the DOE records to see if they were  
9 compatible.

10 **MS. MUNN:** The same thing.

11 **MR. FARVER:** Yeah.

12 **MR. HINNEFELD:** Well, from our response, I  
13 guess that hasn't been. I don't know if  
14 anything's been done on it since we wrote our  
15 response or not. LANL has been --

16 **MS. MUNN:** Since --

17 **MR. HINNEFELD:** -- there is some -- there -- I  
18 mean there've been some sort of inconsistencies  
19 at LANL in terms of (unintelligible). I mean  
20 people would have records that indicate  
21 something different than what we got from DOE -  
22 -

23 **MR. GRIFFON:** Yeah.

24 **MR. HINNEFELD:** -- and I think that's come up  
25 before.

1           **MR. GRIFFON:** That has.

2           **MR. HINNEFELD:** And I don't know that there's  
3           been an ultimate resolution of that or not. I  
4           know there's been a lot more work on LANL since  
5           this time, so --

6           **MR. FARVER:** Well, when a claimant says on  
7           their -- in their interview that they have  
8           records and they're willing to provide it, do  
9           you request a copy --

10          **MR. HINNEFELD:** Well, I think --

11          **MR. FARVER:** -- or ask for a copy?

12          **MR. HINNEFELD:** I don't know. I don't know. I  
13          would think that in many cases we would. I  
14          don't know that in every case -- it may have to  
15          do with the completeness of the dosimetry  
16          records we had. Like if we had a dosimetry  
17          record and it looks like this is a complete  
18          record, then we might conclude that they're  
19          going to give -- send us additional copies of  
20          what we have. I'd be -- don't know that that  
21          decision was made on LANL, though, because we  
22          generally don't -- you know, I don't know that  
23          we ever were that crazy about the LANL  
24          response.

25          **MR. FARVER:** To be -- I -- I would think that

1 if someone's willing --

2 **MR. HINNEFELD:** Seems like the --

3 **MR. FARVER:** -- to provide you information --

4 **MR. HINNEFELD:** Yeah.

5 **MR. FARVER:** -- you would take it and compare  
6 it to what you --

7 **MR. HINNEFELD:** Well, as a general rule, we do.  
8 I mean if someone's got a box of records and  
9 they wa-- you know, they, as a general rule,  
10 are not willing to ship us their -- their  
11 single box, and copying a box of records would  
12 be -- would be kind of a burden on the claimant  
13 to do that. And so I would guess for us to go  
14 do that, we would want to do it in conjunction  
15 with another data capture in the area. If we  
16 were going to fly across the country in order  
17 to scan this person's documents, if they let us  
18 do that, we'd want to do it when we were going  
19 to go there anyway.

20 **MR. FARVER:** I mean I guess our concern is  
21 there -- is that if someone indicates they have  
22 records, is there a mechanism to evaluate  
23 whether you want them or not.

24 **MR. HINNEFELD:** I'm not 100 percent sure.

25 Scott?

1           **MR. SIEBERT:** Well, in this case, looking at  
2           the DOE sub-- DOL submittal, and it's 400 and  
3           some pages, which indicates to me, and I looked  
4           through it real quick, the claimant gave to the  
5           DOL a whole lot of records that came to us in  
6           the DOL submittal to us.

7           **MS. MUNN:** (Unintelligible)

8           **MR. SIEBERT:** And that may be what they're  
9           referring to.

10          **MR. GRIFFON:** Yeah.

11          **MR. SIEBERT:** And if that's the case, then  
12          they'll be with it.

13          **MR. FARVER:** Well, no, and if that's the case,  
14          but I didn't see in the correspondence anywhere  
15          where you requested them from nor asked the  
16          employee or there's any indication that the  
17          employee's records were considered.

18          **MR. HINNEFELD:** Well, it see-- it seems to me  
19          that the decision about whether we -- I mean if  
20          we in fact concluded that what -- I mean did we  
21          even ask them, when they said we have all these  
22          records, if they said we have all these records  
23          and we -- we submitted them with our claim --

24          **MR. GRIFFON:** Yeah --

25          **MR. HINNEFELD:** -- if that's what they said --

1           **MR. GRIFFON:** -- that would be different, yeah.

2           **MR. HINNEFELD:** -- then we would say then we  
3 got them.

4           **MR. FARVER:** I agree.

5           **MR. GRIFFON:** Right.

6           **MR. HINNEFELD:** But if they said I've got all  
7 these records if you want them, we don't do any  
8 more about that, then that's a little -- that's  
9 worrisome.

10          **MR. FARVER:** Okay.

11          **MR. HINNEFELD:** That is worrisome.

12          **MS. MUNN:** But in the -- in the NIOSH response  
13 here it says the records mentioned by the  
14 claimant were obtained when the claim was  
15 submitted.

16          **MR. SIEBERT:** That's -- yeah, what -- what --  
17 what the CATI says is the individual has copies  
18 of his medical and lab reports which she  
19 obtained from Los Alamos human resources when  
20 she filed the claim. They have a box full of  
21 paper. And when I look at the DOL information  
22 that we got from DOL, like I said, it's 400 and  
23 something pages, what I've just looked through  
24 real quick, are medical reports and lab  
25 reports, which would indicate to me that that's

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**MS. MUNN:** That's what they sent her.

**MR. SIEBERT:** -- the same thing they're referring to.

**MR. FARVER:** But there is no letter or memo to file saying this is what they are, these are the employee's records.

**MS. MUNN:** Are you saying this is just an assumption, there's no evidence that it was in fact verified --

**MR. FARVER:** Correct.

**MS. MUNN:** -- with the claimant that it was the same material.

**MR. FARVER:** And I guess part of my question was just how do you know that you get those records from the employee if they're willing to provide it? Do you want copies and --

**MR. HINNEFELD:** Does -- now does -- Scott, one more time, does the claimant describe them as medical and -- what do they describe them as?

**MR. SIEBERT:** In the CATI it's medical and lab reports.

**MR. HINNEFELD:** Okay. So then in the CATI it's described as medical and lab reports.

**MR. FARVER:** Uh-huh.

1           **MR. HINNEFELD:** We see 400 pages of --

2           **MR. SIEBERT:** Medical and --

3           **MR. HINNEFELD:** -- in -- in a DOL file, not all  
4           of which would be medical and lab reports, but  
5           there are a number of medical and lab reports  
6           in there, and we would say that's what they're  
7           talking about. So that's -- I just think  
8           that's probably what the dose reconstructionist  
9           concluded, too. That's what the claimant's  
10          talking about and we have that.

11          **MR. GRIFFON:** I think the CATI also said, if I  
12          heard Kathy right, that they were monitored as  
13          well.

14          **MR. HINNEFELD:** Did they say they were  
15          monitored?

16          **MR. GRIFFON:** That they said they were  
17          monitored.

18          **MS. MUNN:** As many pages of medical --

19          **MR. GRIFFON:** And did -- did you have --

20          **MS. MUNN:** -- and monitoring records are  
21          evident.

22          **MR. GRIFFON:** And did you have dosimetry  
23          records? I'm not, again, looking at the case.

24          **MR. HINNEFELD:** I don't know.

25          **MS. MUNN:** Medical and monitoring records --

1 medical monitoring records are almost --

2 **MR. GRIFFON:** No, monitored -- TLD. Kathy, did  
3 I hear you right that she -- somewhere else in  
4 the CATI, not the same response, she indicated  
5 she wore TLDs or film badges, something --

6 **MR. FARVER:** Routinely wore radiation dosimeter  
7 badges and the claimant has copies of the  
8 employee's dosimeter records.

9 **MR. GRIFFON:** Right, so.

10 **MR. FARVER:** Since NIOSH did not acknowledge  
11 this issue in the DR report, SC&A is  
12 questioning whether the additional dosimetry  
13 records were requested from the claimant and  
14 requested from DOE.

15 **MS. MUNN:** If they are in fact additional  
16 records or if --

17 **MR. FARVER:** If they are, and then how do you  
18 distinguish --

19 **MS. MUNN:** That's the only real question, is  
20 were they additional --

21 **MR. GRIFFON:** Or just a call to verify that  
22 they're the same --

23 **MS. MUNN:** -- or duplicates.

24 **MR. GRIFFON:** -- yeah.

25 **MR. HINNEFELD:** Well, let me figure out a

1 little more on this one, and just on LANL --  
2 Los Alamos in general --

3 **MR. GRIFFON:** Yeah.

4 **MR. HINNEFELD:** -- rather than try to sort  
5 through and -- and do some more here. I think  
6 it is important that we have the record, and if  
7 there is -- and it has -- and it will occur on  
8 occasion that a claimant will have a record  
9 that they got from the site, like when they  
10 left or something, a termination exposure  
11 report, and it may be different than what the  
12 DOE gives us and they have detail we would  
13 want. Different in that it would have  
14 additional information or -- or otherwise it  
15 might be a summary when we're getting, you  
16 know, read-by-reads or something that -- so I  
17 think that's -- that's fairly important that we  
18 do that. I'll have to see what the practice  
19 is.

20 **MR. FARVER:** And I'd say sometimes employees  
21 would be given kind of like an incident write-  
22 up, if they were involved in an incident, which  
23 may not come out in your request for records.

24 **MR. HINNEFELD:** It depends on the filing -- the  
25 filing practices of the --



1           **MR. HINNEFELD:** The first -- starting in '49.

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

3           **MR. FARVER:** Brain, yeah.

4           **MR. GRIFFON:** Brain?

5           **MR. HINNEFELD:** Is brain listed? It's listed,  
6           isn't it? Yeah, I know it's listed.

7           **MR. GRIFFON:** Yeah.

8           **MR. HINNEFELD:** I know it's listed because I --  
9           I took some umbrage at that, that brain cancer  
10          should be in -- supposedly when you learn  
11          radiation biology that tissue isn't radiation  
12          sensitive.

13          **MS. MUNN:** Yeah.

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

15          **MR. HINNEFELD:** So that's about all the  
16          radiation biology I (unintelligible). They may  
17          have reached different conclusions by now.

18          **DR. MAURO:** (Unintelligible) sites.

19          **MR. HINNEFELD:** But yeah, I'm almost -- almost  
20          positive brain is --

21          **MR. GRIFFON:** So this could be an SE-- an --

22          **MR. HINNEFELD:** It's probably an SEC claim, so  
23          the question here relates to the decision of --  
24          that not being issued a dosimeter is equal to  
25          unexposed.

1           **MR. GRIFFON:** Right.

2           **MR. FARVER:** Yes.

3           **MR. HINNEFELD:** That's the question.

4           **MR. GRIFFON:** Yeah.

5           **DR. MAURO:** Your -- in your response you  
6 mention that when he was issued a dosimeter.

7           **MR. GRIFFON:** John, you've got to speak up  
8 there.

9           **DR. MAURO:** I'm sorry, I had -- I notice in the  
10 ra-- the response --

11          **THE COURT REPORTER:** Everybody down there needs  
12 to speak up.

13          **MR. GRIFFON:** Right.

14          **DR. MAURO:** I was --

15          **MR. GRIFFON:** Liven up. We need to do some  
16 calisthenics or something, yeah.

17          **DR. MAURO:** All I was pointing out -- all I was  
18 pointing out, Ray, was that I noticed in the  
19 response, though, you also added that when they  
20 did have records they were predominantly  
21 zeroes. What I recall you saying earlier, when  
22 you see that, that's one of the triggers that -  
23 - when you would say that well, we're not going  
24 to assign a dose to this person, just mis--  
25 just ambient dose.

1           **MR. HINNEFELD:** Well, I think it's -- I think  
2 we consider it a reassuring -- if you're -- if  
3 you're deciding that people not getting a  
4 dosimeter equals no dose, it's reassuring to  
5 see a lot of zeroes --

6           **MS. MUNN:** Uh-huh.

7           **MR. HINNEFELD:** -- 'cause badges will -- you  
8 know, that means the site is badging people  
9 with some potential who don't end up getting  
10 it, or at least not enough to be recorded on  
11 the badge --

12          **DR. MAURO:** Uh-huh.

13          **MR. HINNEFELD:** -- so it's somewhat reassuring  
14 and so we'll say that, but I don't know that we  
15 ever use that as a criterion --

16          **DR. MAURO:** Okay.

17          **MR. HINNEFELD:** -- for deciding that they  
18 didn't. I think we try to get some other  
19 evidence from the site records to decide that.

20          **MR. FARVER:** So he -- he was a machinist who  
21 began employment in 1945. I don't know, is  
22 that an unmonitored person or should they  
23 (unintelligible) an unmonitored dose?

24          **MR. HINNEFELD:** You say he started in '45?

25          **MR. FARVER:** Yeah.

1           **MR. SIEBERT:** He didn't get his Q clearance  
2           until '90 -- '49, but there doesn't seem to be  
3           (unintelligible).

4           **MR. HINNEFELD:** So would we conclude from that,  
5           Scott, that since he didn't have a clearance he  
6           would not be exposed?

7           **MR. SIEBERT:** Prior to that point, definitely.

8           **MS. MUNN:** Uh-huh.

9           **MR. HINNEFELD:** Okay. So without clearance, we  
10          would not expect him to be exposed. And that  
11          would be based on --

12          **MR. GRIFFON:** But then -- yeah, people are  
13          fading and Ray's having trouble --

14          **MR. HINNEFELD:** You've got to really speak up,  
15          don't just speak to me.

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

17          **MR. HINNEFELD:** That's -- that would be based  
18          on LANL-specific information. You know, a  
19          decision that a badge -- or no badge equals  
20          unexposed or a decision that no security  
21          clearance equals unexposed, that's based on  
22          LANL-specific information, so we can -- and I  
23          believe there is a LANL site profile --

24          **MR. GRIFFON:** Yeah, there is --

25          **MR. HINNEFELD:** -- out there and the discussion

1 -- I think there's maybe a workgroup and stuff?

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

3 **MR. HINNEFELD:** So --

4 **MR. GRIFFON:** Yeah, I'm chairing it, so --

5 **MR. HINNEFELD:** Oh, well, we've got a good way  
6 to make sure this gets to site profile, then.

7 **MS. MUNN:** Uh-huh.

8 **MR. HINNEFELD:** So it seems to me that this --  
9 we could put -- say to these -- or to this one,  
10 it would -- if anything, it's a site profile  
11 issue if -- if our argument is not convincing,  
12 and I certainly can't make it convincing in  
13 this room, that these are good decisions, then  
14 it's a site profile because that has to be  
15 based on site research.

16 **MS. MUNN:** We're not sweeping it under the  
17 table, we're giving it to Mark's group.

18 **MR. HINNEFELD:** You guys enjoy giving these  
19 back and forth, don't you?

20 **MR. GRIFFON:** I know.

21 **MR. FARVER:** I mean if that's the basis for  
22 your decision, you know, no security clearance,  
23 and as long as that is documented somewhere --

24 **MR. HINNEFELD:** Yeah, if it's in the site  
25 profile and there's a basis for it, you know,

1           that should be okay if there's a -- if suit--  
2           suitable basis for, you know, unbadged people's  
3           unexposed if -- you know, these things are all  
4           questions that are going to relate to the site  
5           and the site decision.

6           **MS. BEHLING:** I think -- excuse me. I think  
7           that the basis for our finding was the fact  
8           that the LANL site profile indicated that in  
9           '43 they generally only issued PICs to a whole  
10          group of people, and that in '45 only film  
11          badges were issued to the highest individuals.  
12          So that was part of the justification for this  
13          finding, along with the information that was  
14          provided in the CATI report.

15          **MR. HINNEFELD:** But now -- but you say a film  
16          badge to the highest exposed people. Is there  
17          any indication, though, that anyone who didn't  
18          have a security clearance would have been  
19          working around any of the radiological  
20          material? Because you can say well, they only  
21          issued film badges to the most highly exposed  
22          people, and what you mean is the most highly  
23          exposed people with a security clearance.

24          **MS. BEHLING:** Yeah, that I don't know.

25          **MR. FARVER:** I think that's probably something

1           that should get clarified in the --

2           **MR. GRIFFON:** Yeah, that -- that could --

3           **MR. FARVER:** -- site profile.

4           **MR. GRIFFON:** -- be, yeah. Yeah.

5           **MS. MUNN:** Were the PICs not recorded?

6           **MR. HINNEFELD:** As far as I know, the PICs were  
7           recorded but I don't know. I'm not familiar  
8           with the Los Alamos records and I couldn't tell  
9           you if we didn't -- you know, 'cause that's  
10          usually a handwritten logsheet --

11          **MS. MUNN:** Well, it's --

12          **MR. HINNEFELD:** -- although oftentimes they're  
13          --

14          **MS. MUNN:** Yeah.

15          **MR. HINNEFELD:** -- translated into a, you know,  
16          electronic record once -- once electronic  
17          records --

18          **MR. GRIFFON:** Recorded and assigned to a group?  
19          Is that the way they did?

20          **MR. HINNEFELD:** Well, is that what it means,  
21          Kathy, was it a PIC per group?

22          **MS. BEHLING:** They indicate here we moni-- I'll  
23          read the -- in fact, we cite this from the LANL  
24          -- when monitoring for external radiation  
25          exposures started in -- in 1943, PICs were

1 assigned to, quote, a few persons thought to  
2 have the highest potential for receiving  
3 exposure at or above the tolerance limits. And  
4 then it just goes on to say by 1945, when film  
5 badges were in use by a number of the LANL  
6 groups, only workers with the higher exposure  
7 potentials were issued dosimetry badges.

8 **MR. HINNEFELD:** Okay.

9 **MR. GRIFFON:** Okay.

10 **MS. BEHLING:** And that -- let -- let me just  
11 finish one more sentence here 'cause it says at  
12 the time of the earliest criticality  
13 experiments and accidents at LANL, workers who  
14 received the highest exposures had not yet been  
15 issued film badges.

16 **MR. HINNEFELD:** Well, until then they hadn't  
17 been highly exposed.

18 **MS. BEHLING:** Okay.

19 **MR. GRIFFON:** Well, that -- it's definitely a  
20 site profile issue, though. I mean I think  
21 we've got to...

22 **MR. HINNEFELD:** Yeah.

23 **MS. MUNN:** At least not anything that came  
24 close to a criticality level.

25 **MR. GRIFFON:** And -- and some of this, as far

1 as the site profile issue goes, may have been  
2 already resolved 'cause we awarded an SEC for  
3 the early years. Right? So -- you know, yeah.

4 **MR. HINNEFELD:** Yeah.

5 **MS. MUNN:** Yeah, a big chunk of years, as I  
6 recall.

7 **MR. HINNEFELD:** Through '74 -- 4 or 5 -- as I  
8 recall.

9 **MS. MUNN:** Yeah, a big chunk.

10 **DR. MAURO:** I got a question when I -- I heard  
11 the statement regarding the PICs. Are any of  
12 your dose re-- external dose reconstructions  
13 based on solely PIC information?

14 **MR. HINNEFELD:** I don't know.

15 **MR. GRIFFON:** All right, let's try 143.3.

16 **MR. FARVER:** Failed to account for potential  
17 unmonitored neutron dose. Employee was  
18 monitored at least in 1964 for neutrons and  
19 assigned a missed neutron dose. We believe  
20 that probably should have been an unmonitored  
21 neutron dose for the other years. Let's see --

22 **MR. HINNEFELD:** I think it's a site profile  
23 issue also 'cause it's the same issue. We --  
24 we rely on the non-monitored equals non-exposed  
25 argument and so it's the same issue as earlier,

1 a good argument or not, it's just applied to  
2 neutrons.

3 **MR. GRIFFON:** Okay. 143.4, on-site ambient?

4 (Pause)

5 So Doug, I -- in this case are you saying the  
6 on-site ambient was -- was overly maxi-- you  
7 know, was too generous or...

8 **MR. HINNEFELD:** Probably just support --

9 **MR. FARVER:** I think we were just trying to  
10 support it.

11 **MR. GRIFFON:** Right.

12 **MR. FARVER:** Why they used one instead of the  
13 value from Table 4-30.

14 **MR. HINNEFELD:** Was this done before the site  
15 profile, I suppose?

16 **MR. FARVER:** I don't know.

17 **MR. HINNEFELD:** Well, maybe not.

18 **MR. FARVER:** My guess is it was just a  
19 maximizing assumption.

20 **MR. HINNEFELD:** Yeah.

21 **MR. FARVER:** Now I haven't -- I haven't looked  
22 at Table 4-30, but I'm assuming it's less than  
23 a rem per year.

24 **MR. HINNEFELD:** Yeah.

25 **MR. FARVER:** So this will be a maximizing

1           assumption. And I think that the big  
2           disagreement was that it was unsupported. In  
3           other words, if they would have said this is a  
4           maximizing assumption, it probably would have  
5           been okay.

6           **MR. HINNEFELD:** Yeah, I think the -- it would  
7           be done now. I think the site profile would  
8           provide -- I think it has the ambient doses for  
9           the years.

10          **MR. GRIFFON:** So is -- we have agreement in  
11          that you're saying that even though it didn't -  
12          - was this done before the site profile, or  
13          we're not sure on that?

14          **MR. FARVER:** We're not sure.

15          **MR. SIEBERT:** No, it was done after.

16          **MR. GRIFFON:** It was done after?

17          **MR. HINNEFELD:** (Unintelligible) anyway.

18          **MR. SIEBERT:** It was just rather than look it  
19          up in the table --

20          **MR. GRIFFON:** Okay.

21          **MR. SIEBERT:** -- use a rem.

22          **MR. GRIFFON:** Yeah.

23          **MR. SIEBERT:** But that's --

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

25          **MS. BEHLING:** I -- I guess I almost got the

1 impression, in looking at what the dose  
2 reconstructor did here, is maybe they assumed  
3 that this individual was supposed to be  
4 monitored and made up for it on this on-site  
5 ambient dose. I -- I think that was part of  
6 this comment also.

7 **MR. FARVER:** It is, and --

8 **MS. BEHLING:** (Unintelligible) was using the  
9 on-site ambient dose to maybe make up for  
10 unmonitored dose.

11 **MR. SIEBERT:** I doubt that was the thought  
12 process involved. I would say the am-- the  
13 ambient was probably just using a rem per year  
14 as a simplistic assum-- overestimating  
15 assumption.

16 **MR. FARVER:** Well, the DR states: Even though  
17 the employee was monitored for ionizing  
18 radiation doses during the employment period,  
19 on-site ambient doses were assessed as part of  
20 this dose reconstruction in order to maximize  
21 the dose estimate.

22 So from that you would assume that the employee  
23 was monitored.

24 **MR. SIEBERT:** Which they were during some  
25 years, but not entirely. You're right. But

1 I'm guessing what they were saying is they were  
2 assigned that rem of ambient every year,  
3 including the years that they were monitored.

4 **MR. GRIFFON:** That's the -- that's the --

5 **MR. SIEBERT:** It's not an elegant way to say  
6 it, however.

7 **MR. GRIFFON:** That's the over-maximizing, yeah,  
8 yeah, yeah.

9 **MR. FARVER:** Yeah.

10 **MR. GRIFFON:** But why not the values --

11 **MS. BEHLING:** He was only monitored for three  
12 years.

13 **MR. GRIFFON:** -- from the TBD, just to simplif-  
14 -

15 **MR. SIEBERT:** It was probably a time savings.

16 **MR. GRIFFON:** Yeah.

17 **MR. SIEBERT:** Just dropping in one rem is  
18 quicker than going to the TBD and entering each  
19 one where you may have transcription errors.

20 **MR. GRIFFON:** Right.

21 **MS. MUNN:** What did you say about three years,  
22 Kathy?

23 **MR. GRIFFON:** But you would agree it wouldn't  
24 be done that way now. Right?

25 **MS. BEHLING:** I -- the -- the individual was

1           only monitored for three years.

2           **MS. MUNN:** Oh, only had three years of  
3           monitoring data.

4           **MR. GRIFFON:** Yeah, right.

5           **MR. FARVER:** And he worked there from what, '46  
6           through '90.

7           **MR. GRIFFON:** So I think -- what I -- what I  
8           think I -- I'm trying to read through the  
9           discussion here, but I would say, Stu, NIOSH  
10          agrees with this. However, the approach used  
11          was an over-- you know, you -- you probably  
12          should have used the values, but the approach  
13          used was overly conservative.

14          **MR. HINNEFELD:** Yeah.

15          **MR. GRIFFON:** Right. Does that satisfy you,  
16          Doug?

17          **MR. FARVER:** That satisfy you, Kathy?

18          **MS. BEHLING:** No, but that's okay. No, I'm  
19          kidding. I'm okay.

20          **MR. GRIFFON:** No, tell me if it doesn't satis--

21          **MS. BEHLING:** No, I'm -- I'm really joking.  
22          You all are so --

23          **MR. GRIFFON:** We want you satisfied.

24          **MS. BEHLING:** -- no, I'm -- I'm okay with that.

25          **MS. MUNN:** You just want to wake us all up.

1           **MS. BEHLING:** That's it.

2           **MR. GRIFFON:** We're going to take a break after  
3 this case is over, so get ready, guys.

4           **MR. FARVER:** I'm not that concerned about this  
5 finding, about the ambient dose. It more  
6 affects the unmonitored photon and neutron  
7 doses.

8           **MS. BEHLING:** That's exactly right, and I think  
9 that the point I was trying to make is, again,  
10 this points to should there have been some  
11 unmonitored photon and neutron dose being  
12 calculated. And just what they did here with  
13 the ambient made me question -- maybe they  
14 thought also there was some unmonitored periods  
15 here, so that's the only point I was going to  
16 make. But no, I agree with the -- the  
17 resolution of this particular finding.

18           **DR. MAURO:** I just wanted to go -- go back to a  
19 statement that I -- I think was mentioned  
20 before. By assigning the high ambient -- in  
21 fa-- am I -- is that supposed to cover the fact  
22 that there are lots of years where the worker  
23 was not monitored -- other words, was -- looks  
24 like he -- there are a lot of years where he  
25 was not monitored, but he could have

1 experiences some exposures. Now, during the  
2 time period when he was not monitored, some --  
3 some value was assigned, or not? I believe the  
4 answer was no, just ambient.

5 **MR. HINNEFELD:** Right.

6 **DR. MAURO:** Okay. And now -- I guess the  
7 question then becomes almost a common sense  
8 question. Was it reasonable to assume that he  
9 received no exposures during the unmonitored  
10 period, and if that's so, why? And second, the  
11 -- the -- if -- if that -- if -- there's an  
12 answer to that and -- you -- you're covered.  
13 But if the answer is a no, he might have  
14 received some exposures but we accounted for it  
15 because we gave him so much dose ambient,  
16 that's a little less convincing.

17 **MR. GRIFFON:** But I think Scott already  
18 answered that, he says --

19 **DR. MAURO:** That wasn't --

20 **MR. SIEBERT:** I don't believe that --

21 **MR. GRIFFON:** -- it's unlikely --

22 **MR. SIEBERT:** -- was the thought process.

23 **MR. GRIFFON:** -- it's unlikely they went  
24 through that, yeah.

25 **DR. MAURO:** Okay.

1           **MR. GRIFFON:** I would a-- I would agree, it was  
2           probably just kind of a quick shortcut and they  
3           -- you know, and it works out because it's  
4           higher than all your values in the TBD. But  
5           from a quality standpoint, it's probably not  
6           the best practice, you know, so I think that  
7           one we can --

8           **DR. MAURO:** But -- but -- but I mean --

9           **MR. GRIFFON:** Yeah.

10          **DR. MAURO:** -- go back -- the -- the question  
11          we asked Ka-- Kathy, I guess what I'm hearing  
12          is that there's still some question whether or  
13          not it was appropriate to assign zero dose for  
14          the years he was not monitored.

15          **MR. GRIFFON:** Right, that's a -- that's a  
16          separate finding.

17          **DR. MAURO:** That's a dif-- that's still here?

18          **MR. GRIFFON:** Yeah, that's still --

19          **DR. MAURO:** Oh, okay, oh, I'm sorry, I --

20          **MR. GRIFFON:** Yeah.

21          **MR. HINNEFELD:** We had that on two or three of  
22          the other findings.

23          **DR. MAURO:** Okay, so -- okay, I misunderstood.  
24          I apologize.

25          **MR. GRIFFON:** That's those other findings. We

1           haven't let those go, yeah.

2           **DR. MAURO:**    Okay.

3           **MR. GRIFFON:**  143.5 -- two more before our  
4           break.

5           **MR. FARVER:**  Reviewer questions whether NIOSH  
6           received all available bioassay data.  
7           Apparently the employee indicated in the CATI  
8           report that he had copies of the submitted  
9           urine samples and had copies of the -- the  
10          records.  So this is another records -- did you  
11          get copies of the records, did you compare  
12          them, was any of this looked at?

13          **MS. MUNN:**  No follow-up request was made.

14          **MR. HINNEFELD:**  Well, I'll have to go see where  
15          we are on this.  I know Los Alamos is --

16          **MR. GRIFFON:**  It's that same thing, did you  
17          check with the individual, yeah.

18          **MR. HINNEFELD:**  Yeah -- yeah, it's kind of the  
19          same -- did we try to get the records.

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

21          **MR. HINNEFELD:**  Okay.

22          **MR. FARVER:**  Which goes back to when someone  
23          indicates they have records, what's the process  
24          and how do you document the process.

25          **MR. HINNEFELD:**  Yeah.

1           **MR. GRIFFON:** And the last one, 143.6, similar  
2           thing, isn't it?

3           **MR. HINNEFELD:** Seems to be the same thing --

4           **MR. GRIFFON:** Same thing, yeah.

5           **MR. HINNEFELD:** -- it's just that it's in the  
6           CATI portion of the DR review.

7           **MR. FARVER:** Yes.

8           **MR. GRIFFON:** So NIOSH is going to follow up on  
9           that.

10          **MR. HINNEFELD:** Yeah.

11          **MR. GRIFFON:** Why don't we -- we don't have  
12          much left of the seventh set but I think we all  
13          need a little break here, so -- I was hoping to  
14          finish it off, but let's take a little break  
15          now, we'll come back --

16          **DR. WADE:** Take five or ten minutes and we'll  
17          be back on --

18          **MR. GRIFFON:** Yeah.

19          **DR. WADE:** -- we're not going to break the line  
20          then, so I'll just put it on mute.

21          (Whereupon, a recess was taken from 2:47 p.m.  
22          to 3:00 p.m.)

23          **DR. WADE:** Okay, we're back in session.

24          **MR. GRIFFON:** Okay, we're -- we're -- I want to  
25          finish up the seventh set of cases, get -- get



1           **MR. FARVER:** On-site ambient dose, did not use  
2           appropriate procedure for assigning on-site  
3           ambient dose. And you know, I think what we're  
4           saying is we're not able to verify the doses  
5           'cause the doses in Attachment B to PROC-60 do  
6           not match the ones that are listed -- or  
7           something similar, couldn't verify it.  
8           And in NIOSH's response, what they do is state  
9           basically what they did about dividing it by  
10          the -- to correct it for the number of work  
11          hours or number of hours in the year, and then  
12          they multiply it by an uncertainty factor of  
13          1.3.

14          I'm okay with how they did it. And on our  
15          part, we probably should have included a sample  
16          calculation in there saying how we thought it  
17          should have been done, and that would have made  
18          it much easier for us to see how we differ.

19          **MS. BEHLING:** Can I ask a question regarding  
20          the NIOSH response? When you say the highest  
21          value from Table 4-25, I assume that's Table 4-  
22          25 of the Technical Basis Document?

23          **MR. HINNEFELD:** I would think that's what it  
24          is.

25          **MS. BEHLING:** Okay. 'Cause I think in -- I

1 don't know why we have in our comment Table 4-  
2 30 from the Los Alamos Technical Basis  
3 Document. I have to look at that.

4 **MR. GRIFFON:** Maybe that's the site-wide one, I  
5 don't know. I just -- (unintelligible).

6 (Pause)

7 So -- so you're okay with this one or are we  
8 looking at that table or -- I'm not sure --

9 **MR. FARVER:** We're trying to look up the table  
10 --

11 **MR. GRIFFON:** Okay, yeah --

12 **MR. FARVER:** -- if we can do it quickly.

13 **MR. GRIFFON:** -- yeah.

14 **MR. FARVER:** There is a Table 4-30 on page 51  
15 of the environmental technical basis section.  
16 It does list the maximum ambient doses per  
17 year.

18 (Pause)

19 And our point was that if you sum up those  
20 doses, you come up with a higher value than  
21 what was calculated.

22 **MS. BEHLING:** Yeah, Table 4-25 is area badge  
23 data -- data.

24 **MR. FARVER:** Right, and then Table 4-30, Kathy,  
25 on page 51 of that document --



1           **MR. SIEBERT:** They seem to be the same as the  
2 site-wide maximums in 4-25.

3           **MS. MUNN:** So that's the badge data  
4 (unintelligible) which area.

5           **MR. SIEBERT:** Yeah, they're identical results  
6 as the --

7           **MR. GRIFFON:** Are they?

8           **MR. SIEBERT:** -- site-wide --

9           **MR. FARVER:** Okay.

10          **MR. SIEBERT:** -- in 4-25.

11          **MR. FARVER:** So if we sum up the maximum  
12 values, it comes up with a different value than  
13 was in the report --

14          **MR. SIEBERT:** Right, because --

15          **MR. GRIFFON:** Because of the TA, you took the  
16 highest TA --

17          **MR. SIEBERT:** -- technical areas, not the site-  
18 wide map.

19          **MR. GRIFFON:** -- right.

20          **MR. FARVER:** Okay.

21          **MR. HINNEFELD:** So they used the  
22 (unintelligible)?

23          **MR. GRIFFON:** And I think that's why you  
24 highlighted that in your comment, that you used  
25 the highest TA value, not -- not site--

1           **MS. MUNN:** Not site-wide.

2           **MR. GRIFFON:** Right.

3           **MR. HINNEFELD:** Well, how is the highest -- how  
4 is the site maximum higher than the highest TA  
5 value?

6           **MR. SIEBERT:** That's a good question.

7           **MR. GRIFFON:** Yeah, that's the question.

8           **MS. MUNN:** It is? (Unintelligible) combination  
9 of those areas?

10          **MR. GRIFFON:** Okay, that site-wide -- site-wide  
11 is something different, isn't it? I don't know  
12 what it is 'cause in --

13          **MR. HINNEFELD:** (Unintelligible) 1997, just  
14 reading across 4-25, the site-wide maximum  
15 number is higher than those TA numbers.

16          **MR. SIEBERT:** (Unintelligible)

17          **MR. HINNEFELD:** Oh, I'm sorry,  
18 (unintelligible).

19          **MR. FARVER:** Why don't we do this, why don't --

20          **MR. GRIFFON:** Something -- something weird is  
21 in the -- yeah, 'cause if you look at 1973 on  
22 that same table, Stu, that one the site-wide  
23 maximum is 345 and that is equal to one of the  
24 TAs --

25          **MR. HINNEFELD:** One of the TAs --

1           **MR. GRIFFON:** -- TA-18.

2           **MR. HINNEFELD:** -- TA-18, yeah.

3           **MR. GRIFFON:** That sort of makes sense to me.

4           **MS. MUNN:** Yeah.

5           **MR. GRIFFON:** But then if you go down to 1971,  
6           the site-wide maximum is 106 and that's lower  
7           than any of the TAs.

8           **MR. HINNEFELD:** Yeah, lower than -- yeah.

9           **MR. GRIFFON:** So I don't understand.

10           Something's funny. Maybe you need to check  
11           into this -- follow up on the values.

12           **MR. FARVER:** Well, I'd say for -- for this  
13           finding, I mean other than the values in this  
14           table, which appears to be now something  
15           unusual --

16           **MR. GRIFFON:** Yeah.

17           **MR. FARVER:** -- why don't we just have them  
18           just -- just a very, very simple sample  
19           calculation on how it's done, just for a year.  
20           You could e-mail it, we could -- 'cause really  
21           your ambient dose is pretty straightforward. I  
22           mean you go through what they said about  
23           dividing it by the 8760 and multiplying it by  
24           2600 times 1.3, pretty straightforward. It's a  
25           matter of what value you started with.

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

2           **MR. FARVER:** So if they would just go do that,  
3           that would probably help clear up things.  
4           Now the separate issue of what these numbers in  
5           the Table 4-25 mean, I don't know.

6           **MR. GRIFFON:** Yeah.

7           **MS. MUNN:** Table 4-25 and 4-30. There must  
8           have been something else there.

9           **MR. GRIFFON:** Okay, so NIOSH will check into  
10          those -- those values in Table 4-25 and 4-30.  
11          Right?

12          **MS. MUNN:** Uh-huh.

13          **MR. HINNEFELD:** Yeah.

14          **MR. GRIFFON:** And -- and I -- as Doug  
15          requested, (unintelligible) out a simple  
16          calculation how -- I don't know why it --

17          **MR. HINNEFELD:** Different than what's described  
18          in our --

19          **MR. GRIFFON:** Yeah, do you really need a  
20          calculation? I mean you just said the  
21          calculation.

22          **MR. FARVER:** If it's different. I mean if  
23          that's --

24          **MR. GRIFFON:** It -- it is what it is. Right?

25          **MR. HINNEFELD:** That should be it.

1           **MR. GRIFFON:** It's a matter of where the  
2           initial number comes from.

3           **MR. GRIFFON:** Right.

4           **MR. SIEBERT:** That's what we need to  
5           (unintelligible).

6           **MR. GRIFFON:** Yeah, so the tables are wh--  
7           yeah, so I don't think you need a calculation.  
8           There it is, right there.  
9           Okay.

10          **MS. MUNN:** We shouldn't pass up an opportunity  
11          to use this week's most hackneyed phrase, it is  
12          what it is.

13          **MR. GRIFFON:** All right, 144.3.

14          **MR. FARVER:** Okay, OTIB-18, hypothetical intake  
15          model, was used to assign a internal dose.  
16          Questions whether that's appropriate to use.  
17          The em-- the employee had chest counts and  
18          bioassay data in '92. Even though this was  
19          after the cancer was diagnosed, one of the  
20          chest counts was a baseline and one was marked  
21          recount.

22          I guess what it comes down to is there's some  
23          question whether maybe they did -- did they  
24          receive all the bioassay data, and is it  
25          appropriate for -- to request more, I believe.

1 I'm not real sure about this.

2 Kathy, do you have any input on this one?

3 Help?

4 **MS. BEHLING:** I'm looking. I think what we  
5 were questioning -- based on bioassay data that  
6 was included in the file, I'm not sure there  
7 was enough information -- there was nothing  
8 listed under activity results, so we don't even  
9 know what those values were. I don't know --  
10 and I think what we were questioning is if they  
11 should have looked a little bit closer at these  
12 bioassay results.

13 **MS. MUNN:** Over and above the urinalysis and  
14 baseline chest count? Both non--

15 **MS. BEHLING:** No, I -- I think --

16 **MS. MUNN:** -- both non-detectable.

17 **MS. BEHLING:** -- the chest count was marked as  
18 a -- as a baseline, and then there was a second  
19 -- I guess there was a second chest count done  
20 a few months later that was marked as a  
21 recount, and I think that's really what we were  
22 questioning. And -- and both of the records  
23 identified plutonium and americium, but then  
24 there's no value cited under the activity.

25 **MS. MUNN:** Well, the res-- response says

1 special bioassay and the baseline chest count  
2 were non-detects.

3 **MR. GRIFFON:** Well, and -- and more --

4 **MS. MUNN:** And the recount --

5 **MR. GRIFFON:** -- importantly, they were after  
6 the diagnosis of the cancer.

7 **MR. FARVER:** Right.

8 **MR. GRIFFON:** That's another critical point.

9 **MS. MUNN:** And the recount...

10 **MR. GRIFFON:** I mean if -- if a special was  
11 taken, you might say well, yeah, there was a  
12 reason for it, but if it was after the  
13 diagnosis of the cancer, I'm not sure it's  
14 relevant, you know.

15 **MR. SIEBERT:** There was no real indication to  
16 us that --

17 **MR. GRIFFON:** Right.

18 **MR. SIEBERT:** -- those bioassays had anything  
19 to do with anything prior to the --

20 **MR. GRIFFON:** Prior to, yeah, yeah.

21 **MR. SIEBERT:** -- date of diagnosis.

22 **MS. BEHLING:** Yeah, I -- I agree. I agree.

23 **MR. GRIFFON:** Seems to be...

24 **MS. MUNN:** And no indicators, no --

25 **MR. GRIFFON:** That seems logical, yeah.

1           **MS. MUNN:** Yeah. So acceptable?

2           **MS. BEHLING:** I -- I think that, yeah, we're  
3 accepting NIOSH's response here, now that I  
4 look at this a little closer.

5           **MR. GRIFFON:** All right. Moving on -- I was  
6 wrong, I thought that was the last case. I  
7 spoke too soon.

8           **MR. FARVER:** There's always one more.

9           **MR. GRIFFON:** 145's an easy one. Scott, you  
10 want to take this one?

11          **MR. SIEBERT:** (Unintelligible)

12          **MR. GRIFFON:** Yeah. 146.1?

13          **MS. MUNN:** Resolved by OTIB-10, resolved by  
14 OTIB-10 --

15          **MR. HINNEFELD:** You've got those in your notes,  
16 right?

17          **MS. MUNN:** Yeah.

18          **MR. HINNEFELD:** 146.--

19          **MS. MUNN:** Uh-huh.

20          **MR. HINNEFELD:** 'Cause those -- we didn't say  
21 that in here, but those sound like OTIB-10  
22 findings.

23          **MS. MUNN:** Yeah, this is -- I have red-lined  
24 under here, resolution --

25          **MR. FARVER:** Yes, that's an OTIB-10 finding for

1 a -- has to do with OTIB-10 -- OTIB-10.

2 **MS. MUNN:** But that's just 1 and 2.

3 **MR. FARVER:** One and 2, correct.

4 **MR. GRIFFON:** And I had -- I had a question, it  
5 says which resolved this finding -- is TIB-10  
6 closed out in the procedures workgroup? I  
7 can't remember.

8 **MR. HINNEFELD:** I believe it is. It's been  
9 revised.

10 **MR. GRIFFON:** It's been revised and we've --

11 **MR. HINNEFELD:** And --

12 **MS. BEHLING:** And we looked at it, yes, and  
13 it's closed out. We agree with NIOSH's  
14 changes.

15 **MR. GRIFFON:** So it is resolved, good. All  
16 right.

17 Then I think we're on to 146.3.

18 **MS. MUNN:** Nancy says yes?

19 **MS. ADAMS:** Yep.

20 **MS. MUNN:** Nancy says yes, OTIB-10's closed in  
21 procedures.

22 (Pause)

23 **MR. GRIFFON:** So this -- this was done before  
24 the (unintelligible)NL site profile obviously,  
25 but (unintelligible) -- the site profile seems

1 to support what you did. Right?

2 **MS. MUNN:** Both (unintelligible) done  
3 correctly.

4 **MR. HINNEFELD:** Well, yeah, the response would  
5 indicate the case was done before the  
6 (unintelligible)NL site profile.

7 **MR. GRIFFON:** Yeah.

8 **MR. HINNEFELD:** And (unintelligible) the site  
9 profile would (unintelligible) lower doses  
10 (unintelligible).

11 **MS. MUNN:** So acceptable?

12 **MR. FARVER:** Acceptable.

13 **MR. GRIFFON:** Okay. 147.1?

14 **MR. FARVER:** 147.1.

15 **MR. GRIFFON:** So I think S-- NIOSH is agreeing  
16 with this, but saying that it wouldn't affect  
17 the outcome of the claim, is that...

18 **MR. FARVER:** I believe so. POC was about 32  
19 percent, so it probably would not have affected  
20 the outcome of the claim.

21 **MS. MUNN:** It says raises it only slightly,  
22 claim remains non-compensable.

23 **MR. GRIFFON:** Is that right, Stu?

24 **MR. HINNEFELD:** Yeah. We did in fact have a  
25 data entry.



1           **MR. HINNEFELD:** No, I think what -- what our --  
2           what we would say is that the dose assigned was  
3           -- was --

4           **MR. GRIFFON:** Would have been covered by --

5           **MR. HINNEFELD:** -- conservative enough that it  
6           would have covered the dose --

7           (Whereupon, Mr. Griffon and Mr. Hinnefeld spoke  
8           simultaneously.)

9           **MR. HINNEFELD:** And so that's what we -- that's  
10          what our --

11          **MR. GRIFFON:** And SC&A came to that conclusion,  
12          too? I guess that's what I'm --

13          **MR. FARVER:** Yeah, I guess our -- our concern  
14          is more in the discussion in the DR report.

15          **MR. GRIFFON:** Right, so it should have been  
16          brought up there.

17          **MR. FARVER:** Should have been more complete.

18          **MR. GRIFFON:** Right. At least acknowledge that  
19          -- yeah.

20          **MR. HINNEFELD:** And we agree with that.

21          **MR. GRIFFON:** And we've had that comment --

22          **MR. FARVER:** Right.

23          **MR. GRIFFON:** Okay. And you -- and NIOSH has  
24          modified their -- your template for that, too.

25          Right? To some --



1 well, yeah.

2 **MR. HINNEFELD:** Yeah, sixth set, and then --

3 **MR. GRIFFON:** Yeah.

4 **MR. HINNEFELD:** -- some stuff from us on the --

5 **MR. GRIFFON:** Yeah.

6 **MR. HINNEFELD:** -- seventh set, both today and  
7 the ones that we had already covered before  
8 today.

9 **MR. GRIFFON:** Right. And I'll try to generate  
10 -- I will generate the sixth set and seventh  
11 set matrix 'cause I --

12 **MS. MUNN:** Good.

13 **MR. GRIFFON:** -- I think for the sixth set I  
14 had a bunch of the resolution columns  
15 completed, but now I have to merge it with  
16 Stu's revised -- 'cause you were working from a  
17 previous matrix --

18 **MR. HINNEFELD:** Yeah.

19 **MR. GRIFFON:** -- but I -- I'll work that out  
20 and I'll get a new copy out sooner than later  
21 so we don't run into this again.

22 **MS. MUNN:** That would be great.

23 **SUMMARY REPORT OF THE FIRST 100 CASES**

24 **MR. GRIFFON:** All right. Now I think what is  
25 most likely the last item of the agenda today -

1 - I don't think it's likely we're going to get  
2 into the eighth set. I mean people are -- it's  
3 difficult enough to get through these two.

4 **DR. WADE:** We could have that little discussion  
5 item of the tenth set, too.

6 **MR. GRIFFON:** Yeah, but we're -- we -- that  
7 might be something that Stu said he wanted to  
8 look into someti--

9 **MR. HINNEFELD:** I've got to -- I've got to --

10 **MR. GRIFFON:** -- sometime before --

11 **MR. HINNEFELD:** -- (unintelligible) where we  
12 are.

13 **MR. GRIFFON:** -- we leave today -- yeah, we're  
14 going to try to figure out where we are on  
15 that.

16 But I'd like to shift gears a little bit and go  
17 to this -- I sent out a draft report -- I'm --  
18 I -- sorry, but I finally got it out. I've  
19 promised this for several subcommittee  
20 meetings.

21 **MS. MUNN:** (Unintelligible)

22 **MR. GRIFFON:** Noon yesterday, I waited till  
23 Wanda got on board and then I sent it. I  
24 checked her itinerary -- no.

25 **MS. MUNN:** I always like to have something to

1                   greet me when I reach the hotel. Thank you.

2                   **MR. GRIFFON:** Okay. But you know, as I said,  
3                   this is just a first cut. I -- I think when I  
4                   sent the e-mail I put "draft" in capitals. A  
5                   lot of this -- you'll -- let me just walk  
6                   through the thing and then we can discuss it a  
7                   little bit.

8                   **UNIDENTIFIED:** Give the title of it.

9                   **MR. GRIFFON:** The title is Summary Report of  
10                  the First 100 Cases. I mean this is not  
11                  necessarily the final form it'll be in, but I -  
12                  - I actually worked -- we have issued three  
13                  letter reports to the Secretary from the case  
14                  reviews we've done. We did the first 20, we  
15                  did the second and third set as one report, and  
16                  then the fourth and fifth set as one report, so  
17                  three total letter reports. And some of the up  
18                  front part of this summary report is lifted  
19                  from there, stating, you know, the citations to  
20                  the Act and everything and why we're doing  
21                  this. And -- and then what I tried to do is,  
22                  in this front end, give a little bit of an  
23                  overview of here -- of some of the statistics  
24                  and -- and -- and in order to -- to sort of  
25                  have this flow a little more like a letter

1 report, I -- I put in here at the time of the  
2 case selection for the fifth set of cases,  
3 cases 80 through 100, 8,000 cases had been  
4 adjudicated and therefore available for the  
5 Board review. I was sort of going around in my  
6 mind as to whether to break that out 'cause  
7 when we did the first set of cases there were  
8 not nearly that many cases available, but I  
9 didn't really want to put a table in here of  
10 cases available and set and all that. I think  
11 this was good enough to get, you know, for a  
12 summary report. The cases reviewed had  
13 completion dates ranging from -- and I asked  
14 Stu to help me out there, this -- those  
15 completion dates were just for the last set of  
16 -- the last report we did. I didn't know -- it  
17 probably is -- is fairly similar to that, but -  
18 -

19 **MR. HINNEFELD:** Oh, you want some -- okay.

20 **MR. GRIFFON:** Yeah.

21 **MR. HINNEFELD:** Okay.

22 **MR. GRIFFON:** I mean and we -- we might even be  
23 able to broaden it and say, you know,  
24 completion dates ranging from 2003 to 2005, you  
25 know. I don't know that we need to be that

1 specific in this letter.

2 **MR. HINNEFELD:** You want to just hear some? Or  
3 I can, you know --

4 **MR. GRIFFON:** If it's easy enough to look up  
5 the other, then we can decide which one we're  
6 going to, you know, leave in the letter.

7 **MR. HINNEFELD:** Okay. Yeah, or something.

8 **MR. GRIFFON:** Okay.

9 **MS. MUNN:** See, I downloaded --

10 **MR. HINNEFELD:** No, actually (unintelligible).

11 **MR. GRIFFON:** And then the -- the third  
12 paragraph on the first page is where I said  
13 attached are five tables which show a breakdown  
14 of the cases by site, decade first employed,  
15 years of employment, type of cancer and  
16 probability of causation. And this was a work  
17 product that -- that SC&A put together for us  
18 before. Kath-- I think Kathy worked on this  
19 primarily, but we sort of showed these graphics  
20 of the breakdown of what we've covered, and I  
21 think those -- those pretty much speak for  
22 themselves. I don't think we need to summarize  
23 it in the front end of the letter.

24 I did point specifically to one, which was that  
25 we -- only five percent of our cases fall in

1           that 45 to 50 percent probability of causation  
2           range.

3           The next page is the summary of findings, and  
4           this should look very familiar. It's -- it's  
5           from the letter format previously used. It has  
6           the method of ranking and it -- and it  
7           summarizes the finding. In here I just -- I  
8           just summed up all our numbers for the findings  
9           impacted individual estimates versus the -- the  
10          program-wide impact. You'll notice in my  
11          comments on the side that I had a little  
12          trouble making the numbers equate. Kathy's  
13          checking into one of these things for me.  
14          Interesting from a tracking standpoint, my  
15          notes show that 12 unresolved issues were --  
16          were in the second and third set of cases, and  
17          I asked Kathy was -- what are -- what are  
18          those, or -- you know, we need to look back at  
19          those, maybe. That was a little surprise to  
20          me. I thought before we issued these letter  
21          reports that we had closed most things out,  
22          but...

23          And then the -- the last couple pages go into  
24          conclusions and recommendations.

25          **MS. MUNN:** Wait before you leave that page.

1           **MR. GRIFFON:** Okay, I was just stepping through  
2 the whole thing and then if you want to go  
3 back, Wanda --

4           **MS. MUNN:** Oh, okay -- okay, go ahead.

5           **MR. GRIFFON:** Yeah. Conclusions and  
6 recommendations, and these -- these -- most of  
7 these are fairly -- we -- we've had these in  
8 our letter reports before. What I did was I  
9 did add some text in a couple of areas. I took  
10 out some of the -- the details where we  
11 referenced case numbers, et cetera, things like  
12 that. I kept it a little broader, but most of  
13 these issues, if they weren't in all -- in all  
14 three letter reports, they were at least in two  
15 of the three letter reports that we previously  
16 submitted. Not the exact wording, but the --  
17 the headings, so to speak, those conclu--  
18 conclusion headings.

19           So that's sort of stepping through what's in  
20 the report in general, and then we can go back  
21 and get specific comments. And I don't ex--  
22 you know, I mean -- from my standpoint, I know  
23 you just got this, so if people want to red-  
24 line it and give me more in-depth comments,  
25 then I'm certainly -- you know, we can work

1           that way with this as we move forward. Just  
2           wanted to start the ball rolling on it.

3           **MS. MUNN:** It's a really long report.

4           **MR. GRIFFON:** Yeah.

5           **MS. MUNN:** One would be led to think we'd done  
6           a lot of work here.

7           **MR. GRIFFON:** Well, it has been three years, so  
8           --

9           **MS. MUNN:** It has been --

10          **MR. GRIFFON:** -- or four years, I don't know.

11          **MS. MUNN:** -- yes, indeed.

12          **MR. GRIFFON:** Yeah.

13          **MS. MUNN:** On that page three, I guess -- one,  
14          two -- it starts on page two, I guess -- under  
15          the summary of findings which have program-wide  
16          or site-wide impact.

17          **MR. GRIFFON:** Yeah.

18          **MS. MUNN:** That -- the last three sentences  
19          there, starting with (reading) It is noted  
20          there's a greater level of high level and  
21          medium level deficiencies -- I -- I read  
22          through those sentences three times.

23          **MR. GIBSON:** Starting where, Wanda?

24          **MS. MUNN:** With (reading) It is noted -- under  
25          summary of findings which have program-wide or

1 site-wide impacts, right after the 145 low  
2 level --

3 **MR. GRIFFON:** Yeah.

4 **MS. MUNN:** -- low level deficiencies, trying to  
5 figure out, you know, where's the error here.

6 **MR. GRIFFON:** Maybe not greater level, it  
7 should be greater number, I think. Yeah.

8 **MS. MUNN:** I think -- I think so. You know,  
9 the -- I re--

10 **MR. GRIFFON:** This was cut and pasted, too, so  
11 we might have missed it -- that before.

12 **MS. MUNN:** Well, I reread those three sentences  
13 --

14 **MR. GRIFFON:** Yeah.

15 **MS. MUNN:** -- more than once, and it -- every  
16 time I read them I thought this doesn't read  
17 properly.

18 **MR. GRIFFON:** Yeah.

19 **MS. MUNN:** This is --

20 **DR. MAURO:** I -- I have to -- yeah, I know what  
21 --

22 **MS. MUNN:** This is not right.

23 **DR. MAURO:** -- I know what it means, but it's -  
24 -

25 **MS. MUNN:** I know what it means, yeah --

1           **DR. MAURO:** -- someone not close to it is going  
2           to have trouble understanding --

3           **MS. MUNN:** Yeah.

4           **DR. MAURO:** -- what you're trying to say.

5           **MS. MUNN:** I just didn't get it and thought now  
6           we need to -- we need to work on -- this needs  
7           work.

8           **MR. GRIFFON:** Yeah, okay.

9           **MS. MUNN:** And I guess in -- under the summary  
10          --

11          **MR. GRIFFON:** Yeah, I agree. That language was  
12          lifted from before, but I --

13          **MS. MUNN:** Yeah.

14          **MR. GRIFFON:** -- I agree, it's not --

15          **MS. MUNN:** It's not clear.

16          **MR. GRIFFON:** -- for an outs-- especially for  
17          an outside observer, you know --

18          **MS. MUNN:** Yeah, uh-huh.

19          **MR. GRIFFON:** -- it's not obvious.

20          **MS. MUNN:** The paragraph underneath that, I  
21          highlighted the last sentence on the page  
22          there, (reading) This is also reflected in the  
23          case statistics.

24          I think we -- we've said that before, and I  
25          didn't know whether you were deliberately

1           trying to make a --

2           **MR. GRIFFON:** No -- yeah.

3           **MS. MUNN:** -- big point of it, and if so, we  
4           should say "as previously stated" or something.

5           **MR. GRIFFON:** I don't think we need to restate  
6           it. I think I was -- you know, I was -- I was  
7           cutting and pasting and putting this together,  
8           so I think it came up twice.

9           **MS. MUNN:** Yeah, we said that already.

10          **MR. GRIFFON:** Yeah.

11          **MS. MUNN:** And just a real nit, in the first  
12          sentence on the next page, right after  
13          "review," that really needs a comma between  
14          "review" and "concerns".

15          **MR. GRIFFON:** Okay, Paul.

16          **MS. MUNN:** No, it really does.

17          **MR. GRIFFON:** Where was that at?

18          **MS. MUNN:** Oh, the very -- the second line of  
19          the next page.

20          **MR. GRIFFON:** Review -- okay, yeah.

21          **MS. MUNN:** Total outcome of most of the cases  
22          reviewed will likely not be impacted by the  
23          findings in this review, comma, concerns were  
24          identified which would have a broader impact.  
25          It actually needs a semicolon.

1           **MR. GRIFFON:** Yeah, a semicolon.

2           **MS. MUNN:** Under concerns about the dose  
3 reconstruction final reports, I guess it's a  
4 matter of personal preference in that first  
5 line. It is apparent that the DR reports that  
6 NIOSH provides to the claimants -- I -- I'm not  
7 at all sure that "apparent" is what you really  
8 want to say. Apparent has sort of a  
9 prejudicial sound to it, and the double that  
10 that, you know, I guess -- that's a very long  
11 sentence. It just goes on and on and on. So  
12 if you would like, I'll be glad to suggest a --  
13 a couple of --

14           **MR. GRIFFON:** Feel free.

15           **MS. MUNN:** -- minor editorial changes --

16           **MR. GRIFFON:** Feel free.

17           **MS. MUNN:** -- there on that one.

18           **MR. GRIFFON:** By the way, this sentence was  
19 also lifted from our previous letter report, so  
20 --

21           **MS. MUNN:** It's just (unintelligible).

22           **MR. GRIFFON:** I know, it --

23           **MS. MUNN:** It just goes on.

24           **MR. GRIFFON:** Yeah. And I think we did say  
25 apparent before, but I -- I think I know what

1           you're saying, yeah.

2           **MS. MUNN:** And with your -- your comment five,  
3           my personal thought is that no, I -- I don't  
4           see any reason why it should stay in the  
5           summary report.

6           **MR. GRIFFON:** Which one? Oh, no, I --

7           **MS. MUNN:** Procedural issues.

8           **MR. GRIFFON:** No, I -- I -- I edited that  
9           paragraph to the point where I thought it did  
10          still belong in --

11          **MS. MUNN:** That it should --

12          **MR. GRIFFON:** -- 'cause that --

13          **MS. MUNN:** -- be there.

14          **MR. GRIFFON:** -- TIB-8 and 10 came up in all  
15          three letter reports, so I thought --

16          **MS. MUNN:** Yeah.

17          **MR. GRIFFON:** -- you know, they were -- I  
18          thought it was -- yeah, I do think that should  
19          stay. And I know it is a -- a longer report  
20          this way, but...

21          I would actually point you to something that --  
22          I think at the end of the internal quality  
23          control section is one of the areas that's --  
24          that's a little different than previous letter  
25          reports --

1           **MS. MUNN:** Yeah.

2           **MR. GRIFFON:** -- so I'd draw your attention to  
3 that. And there's a couple things in there.  
4 One is this DR notes or guidelines are  
5 mentioned.

6           **MS. MUNN:** Uh-huh.

7           **MR. GRIFFON:** And this question that came up --  
8 actually came up today, this inclusion of  
9 analytical files in the case file, you know,  
10 and I -- I think NIOSH is obviously aware of  
11 that and they're looking into that, you know,  
12 at what -- you know, as Stu put it, at what  
13 threshold do you -- you know, does something  
14 warrant being put in as opposed to not being  
15 put in.

16           And then the question about the peer review --  
17 internal peer reviews process --

18           **MS. MUNN:** Yeah, I guess that -- I was a little  
19 uncomfortable with the way that -- that last  
20 part of the internal quality control segment  
21 was worded. I'm wondering whether this is the  
22 appropriate spot for us to be officially  
23 requesting things of NIOSH.

24           **MR. GRIFFON:** Right.

25           **MS. MUNN:** Is this -- should we not be doing

1           that in some other forum, rather than this  
2           letter to the Secretary? This is a report to  
3           the Secretary. Right?

4           **MR. GRIFFON:** Uh-huh.

5           **MS. MUNN:** And if we are going to be asking  
6           action of the Board, it just seemed to me that  
7           this was not the proper place to do that in  
8           quite this way. If we're going to say the --  
9           the --

10          **MR. GRIFFON:** I see your -- yeah.

11          **MS. MUNN:** -- that we anticipate that we -- we  
12          will be requesting this or -- I just -- didn't  
13          seem quite right.

14          **MR. GRIFFON:** Right.

15          **DR. WADE:** That's reasonable. You can  
16          certainly, as a board, request something from  
17          NIOSH during that meeting --

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

19          **DR. WADE:** -- and then say you requested it.

20          **MR. GRIFFON:** And then say we requested it,  
21          yeah.

22          **DR. WADE:** You -- you're an advisory board to  
23          the Secretary. You can request things of  
24          NIOSH. That's fine.

25          **MR. GRIFFON:** Well, I -- I guess -- yeah, I

1 mean -- and this is sort of -- I wrote this --  
2 I thought this would raise some discussion. I  
3 -- you know, part of the reason I'm writing  
4 this is that I felt like I requested the notes  
5 and guidelines be in the case files --

6 **MS. MUNN:** Uh-huh.

7 **MR. GRIFFON:** -- and have found out a year and  
8 a half later they're still not being put in --

9 **MS. MUNN:** Right.

10 **MR. GRIFFON:** -- so I thought, you know, that  
11 was requested, as far as I was concerned. At  
12 some point we have to --

13 **MS. MUNN:** Formalize the request.

14 **MR. GRIFFON:** Well, I -- I don't know, how much  
15 more formal can it be than being brought up ten  
16 times on a Board meeting and have and  
17 agreement, you know. Now this last one, the  
18 peer review, I agree we have not really  
19 requested that yet, so that's a different  
20 thing. But these notes and DR guidelines, that  
21 has been brought up repeatedly, so...

22 **DR. WADE:** I mean Stu, from your perspective,  
23 has NIOSH heard that request and we just  
24 haven't acted on it, or --

25 **MR. HINNEFELD:** It's -- it's come up in this

1 group, yeah. We've heard it. We've started to  
2 act on it a number of times, and it just kind  
3 of fizzled out.

4 **DR. WADE:** Okay. So you've heard -- you've  
5 heard the Board's request.

6 **MR. HINNEFELD:** I've asked the contractor  
7 before. I haven't followed up, and then we  
8 were overcome by other events and it got  
9 pushed, you know, sort of off the table, so...

10 **DR. WADE:** Okay. So then Mark's reaction is  
11 appropriate --

12 **MR. GRIFFON:** And I know you had a -- you had a  
13 --

14 **MR. HINNEFELD:** I understand Mark's reaction.  
15 I understand Mark's reaction.

16 **MR. GRIFFON:** You had a year worth of time when  
17 your contractor was depleted, too. I  
18 understand that.

19 **MR. HINNEFELD:** Yeah, there -- well, there was  
20 a time when we were real short of money and --

21 **MR. GRIFFON:** Right.

22 **MR. HINNEFELD:** -- it's still not the best of  
23 situation. We're going extension by extension.

24 **MR. GRIFFON:** Right.

25 **MR. HINNEFELD:** So it's -- there was a time

1           when we stopped a lot of things -- essentially  
2           stopped a lot of things in order to maintain  
3           the essential services.

4           **MR. GRIFFON:** I understand. But -- but Wanda's  
5           point was well-taken on the last part. I -- I  
6           would even be willing to modify that the Board  
7           anticipates requesting, or we can bring this up  
8           --

9           **DR. WADE:** Just do it first.

10          **MR. GRIFFON:** -- and request it in the Board --  
11          do it first --

12          **DR. WADE:** At the meeting.

13          **MR. GRIFFON:** -- right, right. Yeah. Is that  
14          --

15          **MS. MUNN:** Yeah, yeah, if we request it at the  
16          Board meeting, then that should --

17          **MR. GRIFFON:** We've talked about this peer  
18          review stuff but I've not requested that, I  
19          agree.

20          **DR. WADE:** Now you can do that as the chair of  
21          the subcommittee, or you can have the Board do  
22          it as a whole.

23          **MR. GRIFFON:** Right.

24          **DR. WADE:** It's up to you.

25          **MR. GRIFFON:** I gue-- I guess that's -- that's

1 another -- I mean we could -- you know, that's  
2 another discussion for NIOSH. Would -- would  
3 that raise concerns or heartburn of -- of  
4 requesting a peer review -- internal peer  
5 reviews be included -- I think you --

6 **MR. HINNEFELD:** I'll have to ask the contractor  
7 --

8 **MR. GRIFFON:** -- do track them in your --

9 **MR. HINNEFELD:** -- yeah, there's -- there's a  
10 checklist still done on --

11 **MR. GRIFFON:** Right.

12 **MR. HINNEFELD:** -- peer reviews.

13 **MR. SIEBERT:** Right. Well -- yeah, there's a  
14 sign-off -- the peer reviewer signs off on a  
15 form --

16 **MR. HINNEFELD:** On a form that I looked at  
17 these things.

18 **MR. GRIFFON:** Right.

19 **MR. HINNEFELD:** So if they didn't find  
20 anything, there -- I guess it would only have a  
21 signature on it.

22 **MR. SIEBERT:** They -- there's -- there's only -  
23 - that's all there is. There's that single  
24 form saying I followed the peer review  
25 checklist and form --

1           **MR. GRIFFON:** Oh, I thought there were --

2           **MR. SIEBERT:** -- and everything falls into  
3 place and it's good to go. That's all there  
4 is.

5           **MR. HINNEFELD:** So they won't -- they don't  
6 fill one of those out if there's --

7           **MR. GRIFFON:** There's not -- I've seen comments  
8 --

9           **MR. SIEBERT:** If it gets returned -- no,  
10 there's not one of those because it has not  
11 been -- has not been completed yet --

12          **DR. WADE:** What is the record?

13          **MR. SIEBERT:** -- (unintelligible) goes back to  
14 the dose reconstruction -- (unintelligible) --

15          **DR. WADE:** What is the record?

16          **MR. SIEBERT:** The record is the peer review  
17 form, once it's signed off, saying I did  
18 consider everything in the peer review and  
19 everything's acceptable.

20          **DR. WADE:** Right, now is there anything -- if -  
21 - if the peer reviewer has problems --

22          **MR. GRIFFON:** Comments or --

23          **DR. WADE:** -- is that captured somewhere?

24          **MR. SIEBERT:** No.

25          **MR. HINNEFELD:** Not in that kind of a form, I

1           guess.

2           **MR. SIEBERT:** Not in a record form because it's

3           --

4           **MR. HINNEFELD:** Is it (unintelligible)?

5           **MR. SIEBERT:** Yeah, it's -- it's an interim,  
6           back-and-forth process, such as sometimes, you  
7           know, a dose reconstructor will walk to the  
8           next cubicle and talk to somebody, and whereas  
9           creating all documentation going back and forth  
10          -- we've had discussions on that and that just  
11          did not seem feasible.

12          **MS. MUNN:** But if a peer review does --

13          **MR. GRIFFON:** I thought you had specific forms  
14          where -- I -- I've seen some copies of these  
15          where there's a comment, and then there was a  
16          response from --

17          **MR. SIEBERT:** There's a -- there's a NIOSH  
18          comment --

19          **MR. GRIFFON:** Oh, that was NIOSH --

20          **MR. SIEBERT:** -- resolution comment --

21          **MR. GRIFFON:** -- that was NIOSH, not ORAU.

22          (Whereupon, Messrs. Siebert, Griffon and  
23          Hinnefeld spoke simultaneously.)

24          **MR. SIEBERT:** Correct, not our -- our internal.

25          **MR. GRIFFON:** Gotcha.

1           **MR. HINNEFELD:** Ours are in that fashion. Our  
2           comments are in the record. They're in --

3           **MR. GRIFFON:** They're in the record in the case  
4           file?

5           **MR. HINNEFELD:** Yeah, which folder are they in?  
6           They -- is that an ADR?

7           **UNIDENTIFIED:** ADR folder.

8           **MR. HINNEFELD:** ADRs, right?

9           **MR. SIEBERT:** It should be in the DR  
10          (unintelligible).

11          **MR. GRIFFON:** Oh, they're not -- okay.

12          **MR. HINNEFELD:** Yeah, our -- if we make a  
13          comment --

14          **MR. GRIFFON:** So NIOSH's comments --

15          **MR. HINNEFELD:** -- during review --

16          **MR. GRIFFON:** -- are in there. Right?

17          **MR. HINNEFELD:** -- that's in there. Now you  
18          put resolution on that form and put it back in  
19          there?

20          **MR. SIEBERT:** Correct.

21          **MR. HINNEFELD:** So that -- our comment  
22          resolutions are there. Their peer reviewer  
23          apparently just signs --

24          **MR. SIEBERT:** Internal review process, yes.

25          **MR. HINNEFELD:** -- they just sign and say I

1 looked at all these things --

2 **MR. GRIFFON:** All these items --

3 **MR. HINNEFELD:** -- and it's okay. That's --

4 **MR. GRIFFON:** -- and it's okay.

5 **MR. HINNEFELD:** -- that's all it is.

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

7 **DR. WADE:** So what -- maybe I should ask Mark,  
8 but --

9 **MR. GRIFFON:** Yeah.

10 **DR. WADE:** -- the phrase "peer review reports",  
11 what does that mean?

12 **MR. GRIFFON:** Yeah, maybe I'm misspeaking  
13 there. There are no reports. Right?

14 **MR. HINNEFELD:** There -- there -- yeah, there  
15 are no --

16 **MR. SIEBERT:** Yeah, all there is is the sign-  
17 off sheet.

18 **MR. HINNEFELD:** -- the -- the signed form that  
19 --

20 **DR. WADE:** But when NIOSH reviews the document,  
21 there is comment resolution.

22 **MR. HINNEFELD:** Yes.

23 **DR. WADE:** So that exists.

24 **MR. HINNEFELD:** Yes.

25 **MR. SIEBERT:** There is a comment form --

1           **MR. GRIFFON:** That's -- in my eyes, is a peer  
2 review rep-- when I said --

3           **MR. HINNEFELD:** Okay, those --

4           **MR. GRIFFON:** -- there's two levels of review,  
5 one is ORAU, one is NIOSH. Right?

6           **MR. HINNEFELD:** Yeah.

7           **MR. SIEBERT:** Right.

8           **MR. GRIFFON:** And so at least --

9           **MR. HINNEFELD:** And the NIOSH --

10          **MR. GRIFFON:** -- there's a report for the  
11 second --

12          **MR. HINNEFELD:** -- the NIOSH is in -- the --  
13 NIOSH's are there.

14          **MR. GRIFFON:** -- and they're there already.

15          **MR. HINNEFELD:** Yeah.

16          **MR. SIEBERT:** On the form 73(unintelligible)  
17 that form --

18          **MR. HINNEFELD:** I don't know.

19          **MR. SIEBERT:** I see (unintelligible).

20          **MR. HINNEFELD:** The form number is not  
21 (unintelligible) of your mind when you  
22 (unintelligible).

23          **DR. WADE:** So then to follow on to the action  
24 part of this then, you're proposing that NIOSH  
25 come to the Board and report trends --

1           **MR. GRIFFON:** Right.

2           **DR. WADE:** -- in that. Well, I know recent --

3           **MR. GRIFFON:** Have you looked at trends on  
4 these? I don't know that (unintelligible).

5           **DR. WADE:** I know recently Larry did a QA/QC  
6 presentation.

7           **MR. GRIFFON:** Yeah.

8           **DR. WADE:** Did he cover this, do you recall,  
9 Stu?

10          **MR. HINNEFELD:** I -- I don't know. We record -  
11 - we do have a statistic and we keep a record  
12 of the number of dose reconstructions delivered  
13 to us that we send back with comments,  
14 percentages, and he may have talked about that  
15 because we do keep that statistic. I mean it's  
16 an easy query that's pulled up automatically,  
17 and it's -- you know, the number that are  
18 approved as they're -- when they're delivered  
19 is -- is well over 90 percent, as I recall. It  
20 -- it's over 90 percent of (unintelligible), so  
21 you know, there would be some ten percent then  
22 that would have a NIOSH comment  
23 (unintelligible) --

24          **MR. GRIFFON:** Yeah, I think -- I think part of  
25 the -- the -- you know, part of the reason --

1 part of where this comes from is that, you  
2 know, we've noted that -- in some cases we've  
3 seen, and we've said it around the table here,  
4 that how could QA miss this one or -- you know,  
5 if it was being QA'd, these -- there were some  
6 things that we just --

7 **MR. HINNEFELD:** Well, there are some things in  
8 there --

9 **MR. GRIFFON:** -- you know, so that -- that's  
10 when we -- we questioned --

11 **MR. HINNEFELD:** -- that we've said yeah --

12 **MR. GRIFFON:** -- yeah.

13 **MR. HINNEFELD:** -- you're right, there are a  
14 number of things -- recall, though, that -- I  
15 think I've said this --

16 **MR. GRIFFON:** You've got a lot of --

17 **MR. HINNEFELD:** -- several different times --

18 **MR. GRIFFON:** -- cases going through. Right?

19 **MR. HINNEFELD:** -- we -- if we see a small  
20 mistake, we won't necessarily send it back.  
21 That's been -- that's been a standard practice  
22 for a while. I guess the guys are still doing  
23 this, but from the time when the idea was we  
24 are so far behind we have to get these dose  
25 reconstructions out --

1           **MR. GRIFFON:** Uh-huh.

2           **MR. HINNEFELD:** -- if we were reviewing one and  
3 we saw that say they left out the ambient dose  
4 for three years -- now that's just something I  
5 made up -- and the --

6           **MR. GRIFFON:** Yeah.

7           **MR. HINNEFELD:** -- POC's 30 percent, we  
8 wouldn't send it back. We'd approve it and  
9 send it on, because, A, it's not going to  
10 change anything in terms of outcome; and B,  
11 we're so much under the gun to get them done  
12 and -- and the recycle loop, you know, you're  
13 talking easily a week -- easily a week,  
14 probably --

15          **MR. GRIFFON:** Yeah.

16          **MR. HINNEFELD:** -- longer, before we're going  
17 to see that corrected thing back, and so we  
18 sent it. So we consciously didn't try to  
19 correct every freaking thing.

20          **MR. GRIFFON:** Right.

21          **MR. HINNEFELD:** Now if there were -- I mean we  
22 have findings that man, we're not so sure how  
23 this -- you know, this may have more impact  
24 than just a minor impact, we'd send those --  
25 we'd comment on those, and we'd make comments

1 where we were wrong, you know. They would  
2 explain to us no, this is how we did it and so  
3 the -- that's -- the resolution is acceptable  
4 that way. So -- but we've not -- we've not, as  
5 a matter of practice, automatically tried to  
6 find every mistake -- or --

7 **DR. WADE:** But the intellectual --

8 **MR. HINNEFELD:** -- not correct every -- we're  
9 not trying to correct --

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

11 **MR. HINNEFELD:** -- every mistake.

12 **DR. WADE:** But on a very collegial level, I  
13 guess the question has to be: In the first 100  
14 reviews were there things that SC&A caught that  
15 we should have caught?

16 **MR. HINNEFELD:** Well, I'd have to go -- you  
17 know, I'd have to go back --

18 **DR. WADE:** That's what this report is all  
19 about.

20 **MR. GRIFFON:** Yeah, to look at -- yeah, yeah.

21 **DR. WADE:** Yeah. So if the answer to that is  
22 yes, then the question is that we need to shore  
23 up our QA/QC. Doesn't mean we're bad people,  
24 just we need to --

25 **MR. HINNEFELD:** Yeah, I -- I understa-- yeah,

1 I'd say that. I'd have to -- I even started  
2 looking at that at one point at first. I was  
3 overcome by events, too, but -- well, as an  
4 example, OTIB-8 and OTIB-10, you know, that --  
5 that makes -- there's a lot of findings -- not  
6 a big number, but a lot of findings on OTIB-8  
7 and 10. That -- that interpretation that was  
8 presented and commented on all these times was  
9 high. It was an overestimating mistaken in an  
10 overestimating approach, and so, you know, had  
11 -- should we have caught that? Well, maybe  
12 yes, maybe no. Actually it stems from, in my  
13 mind, ambivalence in the way 8 and 10 were  
14 written. Different health physicists read it  
15 and interpreted it differently --

16 **MR. GRIFFON:** Right.

17 **MR. HINNEFELD:** -- even within our staff at  
18 OCAS. Two of us read it. One of us  
19 interpreted it one way, the other was interpre-  
20 - the other one interpreted it the other, so it  
21 was ambivalence in the way the thing was  
22 written. So since it was a -- if it was a  
23 mistake, it was an overes-- it was a mistake --  
24 overestimating mistake in an overestimating  
25 approach anyway, you know, I don't know that we

1           would spend a lot of time correcting and  
2           sending that back at a time when we're trying  
3           to get a lot of production in. So I don't  
4           think that's what we'd have found.

5           Now I'd have to go back -- so you want to look  
6           at these things and find out should we have  
7           found these or should we have corrected these.  
8           If you have a mistake that's going to leave out  
9           a few years of dose in a 43 percent POC but you  
10          see that you gave them the maximum intake on  
11          internal, well, you know that that huge dose on  
12          internal is going to mask a couple of -- couple  
13          of years of his dose, and so you say okay,  
14          we're going to let that go. And we don't -- we  
15          don't make a note of that. You know, we don't  
16          write a comment form for our own use --

17          **MR. GRIFFON:** Right.

18          **MR. HINNEFELD:** -- to go back and demonstrate  
19          that, so that is kind of, Lew, what you've --  
20          you've talked about this -- a lot about this,  
21          when you do your QA, what do you find. And we  
22          have not -- as a -- as a matter of practice, we  
23          have not done that sort of thing where you'd  
24          write essentially what you call a deficiency  
25          report but accept the deficiency as-is --

1           **MR. GRIFFON:** Yeah.

2           **MR. HINNEFELD:** -- and then you'd have the  
3 record that you were able --

4           **MR. GRIFFON:** Right.

5           **MR. HINNEFELD:** -- to do that, you could report  
6 that as well as part of it. All we report is  
7 the corrective -- the corrected --

8           **MR. GRIFFON:** And that's why I'm asking about  
9 ORAU's process, but apparently there's nothing  
10 saved to show the comment resolution --

11          **MR. SIEBERT:** Correct.

12          **MR. GRIFFON:** -- process, yeah.

13          **DR. WADE:** But there's a tremendous investment  
14 in time here, and there are two benefits to us  
15 -- NIOSH. One is the review of the 100 cases  
16 and the findings, and the second is the ability  
17 to use that as a lens to look at our QA/QC  
18 process to see if there needs to be some  
19 adjustment, and I think that's what Mark is  
20 getting at here. And that's --

21          **MR. HINNEFELD:** Well, I think as a carry-on  
22 from this point (unintelligible) our action  
23 (unintelligible) you think follows at this  
24 point to -- based on this report and based on  
25 these findings, to take that additional -- the

1 additional action I've talked about, which is  
2 to make our own analysis of those 100 cases and  
3 what's our -- what's our interpretation of this  
4 finding, and should this fit this category of  
5 mistake that we would not -- would not  
6 necessarily try to correct. Now we -- that's  
7 to my way of (unintelligible) -- but that's a  
8 fol-- that's following for us after this  
9 report.

10 **DR. WADE:** Right. And there are two levels. I  
11 mean there is -- the efficiency level needs to  
12 be introduced, because there could well be  
13 things that are identified as mistakes and are  
14 passed over for efficiency reasons. Again,  
15 that's a policy judgment.

16 **MR. GRIFFON:** Yeah.

17 **DR. WADE:** But then there are other things that  
18 don't fit that. And then the question is why  
19 didn't we.

20 **MR. HINNEFELD:** Yeah.

21 **DR. WADE:** So I mean this is a good thing.  
22 This is what this is all about.

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

24 **DR. MAURO:** I -- I'm afraid when I read this  
25 that we're all too close. I'm thinking about

1           what we're in the middle of when we're -- we're  
2           really getting into the fine structure to a  
3           level of immense detail. And I -- from reading  
4           this, I'm concerned that we have not, you have  
5           not, all of us have not extracted ourselves far  
6           enough away to really say well, what did we  
7           really do and what did we really accomplish,  
8           almost as if the -- we're all wearing the same  
9           hats and we're in a process, and SC&A's very  
10          much an integral part of a process where there  
11          is an iterative interaction going on  
12          continuously. And I have to say, when I read  
13          this I understand exactly what you're saying,  
14          and it's exactly correct.  
15          Then I put myself -- and say well, wait a  
16          minute. Let's say I didn't -- I was not close  
17          to this program and I was the head of HHS and I  
18          was reading this, would I really get a full  
19          appreciation of a very -- of a -- a process  
20          that had systematic steps and outcomes and  
21          accomplishments, and I don't -- I don't get  
22          that from -- I mean I'm -- I'm trying to be  
23          constructive and I -- I think it's -- we -- and  
24          it's not because it's wrong, it's because we're  
25          looking at -- we're too close. I know that we

1                   struggled with that on the procedures.

2                   **MS. MUNN:** Yes, we --

3                   **DR. MAURO:** We -- I remember how many times we  
4                   had to go through that first page.

5                   **MS. MUNN:** I kept sending it back to you --

6                   **DR. MAURO:** You kept bouncing it back --

7                   **MS. MUNN:** -- this is too long --

8                   **DR. MAURO:** -- step back, step back, step back  
9                   -- it's almost as if -- you've almost got to  
10                  step out of our -- your own shoes and say well,  
11                  wait a minute, what do I really want to tell  
12                  this person? And I don't -- I'm afraid that  
13                  when I'm reading this -- it's funny, my first  
14                  reaction when I read it is oh, yeah, this is  
15                  good, this is -- oh, yes -- then -- now and  
16                  again I read it and I read it and say wait a  
17                  minute, are we too close to this? And when we  
18                  talk about some of these -- these issues we  
19                  had, when you get into OTIB-004, I mean are we  
20                  too close to that? Is that -- or we talk about  
21                  what are the big issues -- what was the terms  
22                  that we use -- here, one of the places that I  
23                  tripped over real quick was (reading) SC&A  
24                  concluded that 94 of the first 100 dose  
25                  reconstructions reviewed were considered to be

1 sufficient for the purpose of determining  
2 probability of causation.

3 That is an extremely loaded statement --

4 **MS. MUNN:** It is a loaded statement.

5 **DR. MAURO:** -- which means that six perc-- you  
6 know what I would read if I were the reader of  
7 this and I didn't know better? Six percent of  
8 all the dose reconstructions had to be reversed  
9 --

10 **MS. MUNN:** Had to -- yeah --

11 **DR. MAURO:** -- needed a reversal. Now that's  
12 not true.

13 **MS. MUNN:** No.

14 **DR. MAURO:** So somehow we're so clo-- I mean  
15 that statement is correct, within the context  
16 of our own language that we use in the world  
17 we've built for ourselves. We built this house  
18 and we're living in it now, and I'm telling  
19 you, right now you read that sentence, someone  
20 says oh, my goodness --

21 **MS. MUNN:** Uh-huh.

22 **DR. MAURO:** -- six percent had to be reversed?  
23 No, that's not what we're saying here. In  
24 fact, I have a funny feeling that -- could we  
25 even answer the question right now, out of the

1           100 cases that have been reviewed, have any of  
2           them been reversed? Do we know the answer to  
3           that?

4           **MR. HINNEFELD:** As far as I know, none have  
5           been reduced -- reversed by the findings here.

6           **DR. MAURO:** That has to be said.

7           **MS. MUNN:** Yeah.

8           **DR. MAURO:** That has to be said. But  
9           nevertheless, the process that we've engaged in  
10          to -- after going through these 100, have --  
11          have uncovered certain areas where there's a  
12          need for improvement. It's almost like -- okay  
13          -- and what is -- what is it? I mean, what --  
14          what -- is there anything that you folks walk  
15          away with? I mean here we are, sitting around  
16          a table for five years --

17          **MR. GRIFFON:** Uh-huh.

18          **DR. MAURO:** -- doing this, do you bring -- do  
19          you bring back to yourself -- it's a tough  
20          question to ask yourself. When you bring --  
21          'cause this what this letter's about. NIOSH  
22          has to be introspective in saying is there  
23          anything that SC&A brought to the table as a  
24          result of supporting the Board, and that the  
25          Board brought to the table as a re-- that sort

1 of opened up other ways of looking at things,  
2 other ways of approaching problems, identified  
3 processes -- other words, I -- I feel as if so  
4 much more could be done with this letter if --  
5 but it has to be at a much higher level. Right  
6 now it's almost like a letter written to  
7 ourselves --

8 **MS. MUNN:** Yeah, I --

9 **DR. MAURO:** -- as opposed to a letter written  
10 to the head of HHS. I --

11 **MS. MUNN:** Right.

12 **DR. MAURO:** It didn't dawn on me till after --  
13 till this -- reading it over and over and over  
14 again and it -- it just hit me now and I hope  
15 you see it as a constructive criticism in terms  
16 of maybe there's another way to package the  
17 information that is at a higher level. And I  
18 think it's very important that none of those  
19 100 were reversed. That's an important message  
20 --

21 **MS. MUNN:** It needs to be said --

22 **DR. MAURO:** -- but there is -- that needs --  
23 that -- but there is a -- but then NIOSH has to  
24 ask itself and help --

25 **MR. GRIFFON:** But that's not -- yeah, go ahead.

1           **DR. MAURO:** No, I'm sorry, it what -- what do  
2 you want to sa-- I mean really -- I mean --

3           **MR. GRIFFON:** I mean I --

4           **DR. MAURO:** -- where do you want to go with --

5           **MR. GRIFFON:** -- you know, that -- that's only  
6 -- it only seems that that's been important  
7 when we -- we've struggled with that throughout  
8 this Board, that we can never talk about POC  
9 unless we didn't end up reversing any of these  
10 ca-- you know? We couldn't even --

11          **DR. MAURO:** Well, I don't know, I --

12          **MR. GRIFFON:** -- we couldn't even say those  
13 words in our letters at first.

14          **DR. MAURO:** Well -- well, right now that infor-  
15 - that -- that --

16          **MR. GRIFFON:** And now the fact that we didn't  
17 change the outcome, all of a sudden, you know,  
18 you're saying we should conclude that that -- I  
19 mean where -- where we ended up going down --

20          **DR. MAURO:** Well -- but then --

21          **MR. GRIFFON:** I don't disagree with your  
22 statements about the overall letter, but --

23          **DR. MAURO:** Then that -- that statement over  
24 here -- I mean then -- the idea that 94 of 100  
25 are considered to be sufficient -- see, that

1 was a term -- I mean -- you know, it's for the  
2 purpose of -- do -- in other words, what -- I  
3 know what that really means.

4 **MR. GRIFFON:** Yeah.

5 **DR. MAURO:** But I can see someone  
6 misinterpreting what that means.

7 **MS. MUNN:** Most people won't know what that  
8 means.

9 **DR. MAURO:** We have -- that -- that --

10 **DR. WADE:** What does it really mean, John?

11 **MR. GRIFFON:** Yeah, what does it mean?

12 **DR. MAURO:** What this -- oh, the -- the -- the  
13 process that was used in -- 94 out of 100 we  
14 concluded that the -- the way in which it was  
15 done was strictly in accord with the 10 -- 40  
16 CFR Part 182 to make sure that it was -- it was  
17 done in accordance with the rules that require  
18 you to do dose reconstruction. Other words --  
19 and -- and -- other words, there's a certain  
20 set of rules, regu-- the regulations demand  
21 that you follow really the three big steps  
22 regarding -- you know, you start off with the  
23 bioassay data, dosimetry data, then there's a -  
24 - there is a -- a process that is laid out by  
25 rule on how you go about doing dose

1 reconstruction so that you could come to a  
2 decision regarding dose reconstruction that is  
3 -- is -- is consistent and in strict accord  
4 with the regulations. And I think we found  
5 that 94 out of 100 did follow the regulations  
6 to the letter. However, six we found didn't  
7 quite follow to the let-- and I think that's  
8 really what's being said here, but I can see  
9 someone reading that meaning no, you came --  
10 there's a reversal in here.

11 Now -- now I -- I agree what you're saying.  
12 I'm sorry, I can't --

13 **DR. WADE:** That's fine.

14 **DR. MAURO:** -- but I -- I -- these kinds of  
15 things are very, very important to me. Whether  
16 or not you want to say anything about  
17 reversals, I understand that.

18 **DR. WADE:** Uh-huh.

19 **DR. MAURO:** Maybe there shouldn't -- that's not  
20 something we should say. And maybe it should  
21 be made very clear that that -- that we're not  
22 talking about that. That -- that's another  
23 part of this, that make it clear that wait a  
24 minute, nothing about we're going to talk about  
25 today has to do with whether or not our process

1           has identified dose reconstructions that had to  
2           be reversed.  If that's -- if that's a true  
3           statement, I think that needs to be  
4           communicated.  Or is it something that you --  
5           you have to ask yourself, do we want to  
6           communicate that?  And if we're not going to  
7           communicate that, what is it that we're trying  
8           to say?  And I -- I -- what I found very, very  
9           -- I -- ter-- very useful is the -- the forms  
10          in the back.  The forms in the back said --  
11          said that we built a machine that had certain  
12          layers to it that would cut across all the  
13          different cases in a number of different  
14          directions to make sure that -- and I think you  
15          say that.  I think you say that.

16         **MR. GRIFFON:**  Yeah, that's fine.

17         **DR. MAURO:**  And this demonstrates it  
18          beautifully.

19         **MR. GRIFFON:**  But those are just summary stats.  
20          I mean --

21         **DR. MAURO:**  Those are summary stats, but I mean  
22          --

23         **MR. GRIFFON:**  -- they're fine, they're in there  
24          --

25         **DR. MAURO:**  -- so -- and -- and it's in there,

1           so I --

2           **MR. GRIFFON:** -- some nice tables, yeah.

3           **DR. MAURO:** -- and I think you -- I think you -  
4           - I think -- so the front end of this --

5           **MR. GRIFFON:** There's no conflict in those.

6           **DR. MAURO:** -- is golden. You're right --

7           **MR. GRIFFON:** They're fine.

8           **DR. MAURO:** -- it's golden.

9           **MR. GRIFFON:** Yeah.

10          **DR. MAURO:** And they say okay, after going  
11          through this process and now we're about -- you  
12          know, out of the 240 that of course we've  
13          reviewed to date -- by the -- when we finish  
14          the tenth set it'll be 240, we -- we're at the  
15          -- right there -- you know, the first 100, I  
16          don't -- I don't see what I would call  
17          accomplishments.

18          **MS. MUNN:** And that was my primary concern  
19          after I read through. I read through this and  
20          I thought what I'm coming away with is a really  
21          negative feeling --

22          **DR. MAURO:** Uh-huh.

23          **MS. MUNN:** -- as though here's all the stuff  
24          that's gone wrong for the last X number of  
25          years. I -- what I did not see is a feeling of

1 accomplishment. And if that's -- if that's  
2 what we want to convey, then that's fine. But  
3 I was disappointed that I didn't -- I didn't  
4 feel that sense of movement, that sense of  
5 achievement, that sense of change that I feel  
6 has come out of --

7 **DR. MAURO:** Yes.

8 **MS. MUNN:** -- the subcommittee. But it's --

9 **DR. MAURO:** That's a real hard thing to catch,  
10 and I think we're all -- we're all very close  
11 to it. It's very hard to do that, to step that  
12 far back and say what -- what did we really  
13 accomplish here -- tough question.

14 **MS. MUNN:** It is a tough question.

15 **DR. WADE:** See, what --

16 **MR. GRIFFON:** Yeah, I --

17 **DR. WADE:** -- and I don't really have a dog in  
18 the fight, but where I came away with the sense  
19 of accomplishment was, in each of the  
20 conclusions and recommendations, at the end you  
21 speak to what NIOSH has indicated it would do  
22 in response. So to me, the accomplishment was  
23 embodied in those statements.

24 **DR. MAURO:** (Unintelligible) see it that way.

25 **DR. WADE:** So, you know -- and I felt good

1           about that, you know. Now there's only that  
2           didn't. Number seven, for some reason, didn't  
3           have that.

4           **MR. GRIFFON:** Yeah, we -- we effected some  
5           change and I tried to -- to integrate that in  
6           there. It might have got lost in the back, you  
7           know, but --

8           **DR. WADE:** I mean I'll just --

9           **MR. GRIFFON:** -- the pro-- the process did  
10          effect some change. It may be less than --

11          **DR. WADE:** Just a number of things. I don't  
12          think you should be hung up on whether or not a  
13          POC change was made. I don't think that's the  
14          business of this. This is a review of the  
15          scientific process, and -- and if there is  
16          something found at fault with the process,  
17          regardless of whether it triggered a change, it  
18          needs to be pointed out and -- and counted.  
19          Again, you're writing -- while you're writing  
20          this to the Secretary, you're writing this for  
21          NIOSH. The worth of this is that NIOSH takes  
22          it, reads it and is motivated by whatever it's  
23          motivated by, the kinds of things Stu was  
24          talking about doing. So I wouldn't lose that  
25          grain.

1           Whether or not you move things around to -- to  
2           convey this fact that we did something and the  
3           world is better for it, that's a matter of  
4           style and I'd leave that to you --

5           **MR. GRIFFON:** We're also writing this for the  
6           broader public, too, so -- and the claimant  
7           population at large. I mean they're going to  
8           see us as an independent body reviewing, you  
9           know, the dose reconstruction contractor, so --

10          **DR. WADE:** Well, last -- lats --

11          **MR. GRIFFON:** -- we have different audiences, I  
12          think.

13          **DR. WADE:** Right. The last thing I'd say is  
14          audit reports are never po-- never fun to read.

15          **MR. GRIFFON:** Right.

16          **DR. WADE:** The only thing I -- and you've  
17          always done this, and I would suggest you do it  
18          again, is you turn to the -- the audited body  
19          and you say are you offended by this; do you  
20          think it's wrong. If they say yes, you need to  
21          listen to them. If they say no, then you move  
22          forward. You've done that with other letters,  
23          I assume you'll do it --

24          **MR. HINNEFELD:** Right, we'll -- yeah, we'll  
25          send comments on the -- I didn't open this till

1           this morning and nobody else --

2           **MR. GRIFFON:** No, I know. I just wanted to get  
3           the dialogue going again and I do -- I -- I do  
4           agree that -- that -- I -- I think there's some  
5           good -- in what John said, there's -- there's  
6           some --

7           **DR. MAURO:** Hey, I'm struggling --

8           **MR. GRIFFON:** -- other things we can add in  
9           some letter -- in the front end to -- to show -  
10          - to speak to the accomplishments, maybe not  
11          just bury it in the back, but pull it up to the  
12          front so -- so that we do speak to that. I  
13          don't disagree with that.

14          This 94 out of 100, I -- I had a little  
15          heartburn of putting that in there for the  
16          reverse reason, that I thought it was a 94  
17          perc-- you know, it got an A, you know, and --

18          **DR. MAURO:** No, I would say --

19          **MR. GRIFFON:** -- and I thought it buried some  
20          of the -- you know, some of the -- the  
21          important things that -- that --

22          **DR. MAURO:** Well, thi-- thi--

23          **MR. GRIFFON:** -- important deficiencies, you  
24          know.

25          **DR. MAURO:** The -- that -- I think it should be

1           said in a way I think -- I think it was  
2           intended. Namely that --

3           **MR. GRIFFON:** Yeah.

4           **DR. MAURO:** -- for -- in our audits we found  
5           that 94 percent of the dose reconstructions  
6           strictly followed the regulations as laid out.  
7           Other words, we --

8           **MR. GRIFFON:** Yeah.

9           **DR. MAURO:** -- they're -- they -- it was --  
10          that's really what we found out, that is --  
11          which is -- it is an A. That is, if in fact  
12          there's a set of regulations out there and we  
13          audited against are you following the rules  
14          that were handed you by -- by the regulators  
15          and by Congress, and the answer is ye-- in 94  
16          percent of the time, we did; and six percent of  
17          the times we found this was -- there was some  
18          deficiencies -- and I think that should drive  
19          the whole thing.

20          **MR. GRIFFON:** I don't know about --

21          **DR. MAURO:** Other words, in effect -- you don't  
22          see it that way?

23          **MR. GRIFFON:** No, I don't see -- I don't see --  
24          I don't even see your definition of a 94  
25          percent --

1           **DR. MAURO:** Okay, then what is it?

2           **MR. GRIFFON:** I think it is the P--

3           **DR. MAURO:** It is the -- that's what I --

4           **MR. GRIFFON:** It's the POC. I mean it's the  
5           POC.

6           **DR. MAURO:** Well, then you're saying six  
7           percent -- you think six percent --

8           **MR. GRIFFON:** Yeah.

9           **DR. MAURO:** -- of the POCs were not --

10          **MR. GRIFFON:** Not -- not -- that -- that's what  
11          we've said in every previous letter report. I  
12          mean the la-- SC&A concluded that 38 of the 40  
13          dose reconstructions reviewed during this phase  
14          of the audit were considered to be sufficient  
15          for the purposes of determining probability of  
16          causation. We voted on this letter three  
17          times. We've said those words before. This  
18          was just adding up numbers, for me. This was -  
19          - that was a -- you know, so I don't think --  
20          and it -- it was -- you know, my point really  
21          was that most of these cases we looked at in  
22          the first 100 were maximizing or minimizing.

23          **DR. MAURO:** Well, no, that's important.

24          **MR. GRIFFON:** Probably only five percent were -  
25          - five or seven percent or so were best

1 estimates, so it's not surprising at all that  
2 you'd get a very high -- 94 percent, you know,  
3 were -- were sufficient. Now I think we -- we  
4 chose those words because -- in the past  
5 reports because we said, you know, we -- we  
6 can't say that five -- five or six percent --

7 **DR. MAURO:** You can't.

8 **MR. GRIFFON:** -- are -- are -- as a result of  
9 this audit were overturned, were reversed, but  
10 we -- in -- what we -- we did say that the --  
11 you know, I guess we said that -- that the  
12 sufficiency was suspect, sort of. We left it  
13 in the gray area.

14 **MS. MUNN:** It raised questions.

15 **MR. GRIFFON:** Yeah, it raised questions --

16 **MS. MUNN:** Raised issues.

17 **MR. GRIFFON:** -- enough that we couldn't  
18 definitively say they were sufficient, so -- so  
19 those -- you know, again, we -- I'm not saying  
20 that that means that it has to stay that way in  
21 the summary report, but we've said these words  
22 before to the Secretary. That was just adding  
23 up numbers. I -- I totally agree with what you  
24 said about modifying the front end to sort of  
25 say what have we accomplished to this point --

1           you know, where -- where are we and -- and sort  
2           of -- 'cause this is -- this is sort of like a  
3           -- a technical letter, almost, not -- you know,  
4           it doesn't step back and say, you know, what  
5           have we gotten out of this, what -- 'cause  
6           there are accomplishments, I agree. And I  
7           think -- you know, Lew found them, but I think  
8           some of them are kind of buried in the text in  
9           the back conclusions. And oftentimes they're -  
10          - they're -- you know, I mention an  
11          accomplishment, and then I throw a "however" in  
12          there, which --

13         **MS. MUNN:** Uh-huh, on the other hand.

14         **MR. GRIFFON:** -- I thought Wanda would comment  
15          on those.

16         **MS. MUNN:** On the other hand.

17         **MR. GRIFFON:** But I mean -- yeah, yeah, so --  
18          so I think some of that -- I -- I don't  
19          disagree with that -- some of that probably  
20          should be added to the front -- you know,  
21          toward the front, and maybe the back end needs  
22          to be sort of narrowed down a little, you know.  
23          It's a little lengthy, but...

24         **DR. WADE:** Could I ask just a clarifying que--  
25          for my own education, could you just describe

1           for me one of the six that would be -- those  
2           si-- are we talking about the use -- when --  
3           was the use of OTIB-4?

4           **MR. GRIFFON:** No --

5           **MR. HINNEFELD:** No, these are -- as I recall --

6           **MR. GRIFFON:** Case 44, case 49 -- I think the  
7           Savannah River cases.

8           **MR. HINNEFELD:** They -- they were close to --  
9           the POC in the original dose reconstruction  
10          would be like 48 percent.

11          **MR. GRIFFON:** Right.

12          **MR. HINNEFELD:** And there would be findings on  
13          that that would lead the reviewer to indicate  
14          that we're not so sure this is right. These  
15          findings are serious enough that it might  
16          affect the outcome.

17          **MR. GRIFFON:** Right.

18          **MR. HINNEFELD:** So --

19          **MR. GRIFFON:** And might affect is the key.

20          **MR. HINNEFELD:** And so the -- what the -- what  
21          is actually the case here is that the dose  
22          reconstructions, as originally prepared, were -  
23          - 94 percent were sufficient to reach -- you  
24          know, that were of the ones reviewed -- were  
25          sufficient to reach a decision on probability

1 of causation.

2 **MS. MUNN:** Uh-huh.

3 **MR. HINNEFELD:** Which means that six, as  
4 originally prepared, were not. But I think in  
5 all cases of those six, when we reworked the  
6 case with the -- taking the comment into  
7 account --

8 **MR. GRIFFON:** They weren't reversed.

9 **MR. HINNEFELD:** -- they weren't reversed.

10 **MR. GRIFFON:** And we might want to even say  
11 that.

12 **MR. HINNEFELD:** Now the other thing -- now the  
13 thing that -- that strikes me about this is  
14 there -- there should be a way to find -- I  
15 mean there have been certainly site profiles  
16 revised because of this review -- Huntington  
17 Pilot Plant site profile is now revised now as  
18 a result of findings on dose reconstructions.  
19 There have been specific actions taken. The  
20 key -- you know, the key thing about this  
21 review, it has removed the question of what is  
22 a correct dose reconstruction from a federal  
23 agency and it's put it in the public and made  
24 it a broader participation in what is -- what  
25 is the -- what has the country decided will be

1 the correct decision for this law. You know,  
2 that's -- that's the value, to me, of this  
3 review. And if no dose reconstruction is ever  
4 directly overturned because of the findings,  
5 the specific findings on that, there are any  
6 number of things that are done differently  
7 because of this. And a number of cases have  
8 been reworked through PER or through whatever  
9 process --

10 **MR. GRIFFON:** Right.

11 **MR. HINNEFELD:** -- and practices that are used  
12 now -- dose reconstruction practices are  
13 different, generally more claimant to the  
14 favorable -- to the -- more favorable to the  
15 claimant -- you know, normally I get that right  
16 -- because of -- of this -- this process is now  
17 an open -- you know, a public process with  
18 broader participation than just the federal  
19 government. So the -- or one federal agency.  
20 So there's some real value here, and I don't --  
21 that can be spoken of, you know, however you  
22 want, but -- so I think, you know, that's it.  
23 And -- and what -- if we have -- do we have all  
24 five matrices final, I mean with resolutions  
25 and everything, are all five done now?

1           **MR. GRIFFON:** Yeah, except, as I said, there  
2 was these 12 that Kathy and I were trying to  
3 figure out --

4           **MR. HINNEFELD:** Okay, trying to resolve.

5           **MR. GRIFFON:** -- unresolved, yeah.

6           **MR. HINNEFELD:** With the final matrix --  
7 matrices and a little time, I think we could  
8 come up with: These specific actions have been  
9 taken by NIOSH. Whether you want to put them  
10 in the letter, I mean that's going to delay the  
11 letter while we get to it, but we could provide  
12 --

13          **MR. GRIFFON:** Well, just what you said there is  
14 useful. I mean I think some of that stuff --  
15 yeah --

16          **DR. WADE:** Sure we capture --

17          **MR. HINNEFELD:** These --

18          **MR. GRIFFON:** We can either say it generically  
19 or get specific if we want to, but yeah.

20          **MR. HINNEFELD:** Yeah. And we could capture the  
21 specific activities, there's been procedure  
22 revisions, there's been site profile revisions,  
23 there have been practices adopted and applied -  
24 - I would guess that PERs have been prepared  
25 because of --

1           **MS. MUNN:** Uh-huh.

2           **MR. GRIFFON:** Yeah.

3           **MR. HINNEFELD:** -- the findings in site profile  
4           -- or in --

5           **MR. GRIFFON:** Dose reconstructions.

6           **MR. HINNEFELD:** -- dose reconstructions. So --  
7           I suspect there are -- I'm not 100 percent, but  
8           I suspect there are. So -- so I think there's  
9           a lot of stuff that's happened here that we --  
10          it would take us a little time, but we could  
11          probably put together.

12          **MR. GRIFFON:** Well, that'd be useful. I mean I  
13          -- this is open --

14          **MS. MUNN:** Very useful.

15          **MR. GRIFFON:** -- for comment, and what I would  
16          offer is -- I mean everyone around the table,  
17          if you want to send some red-lined comments --  
18          and Stu, for that sort of analysis, it's going  
19          to take a little longer, I -- I understand.  
20          But --

21          **MR. HINNEFELD:** I -- I'm afraid I'm  
22          (unintelligible) --

23          **MR. GRIFFON:** -- or just e-mail of things that  
24          need to be added, I can take another shot at  
25          this and --

1           **DR. WADE:** I do think the sentence of that 94  
2 as we discussed about could be modified to say  
3 that upon reflection or upon rework, that'd be  
4 fine.

5           **MR. HINNEFELD:** I think if you said "as  
6 originally prepared."

7           **MR. GRIFFON:** Yeah, I just put that down, too.

8           **MR. HINNEFELD:** If you put those words in  
9 there, it provides --

10          **MR. GRIFFON:** Yeah.

11          **MR. HINNEFELD:** -- you know, the -- the --

12          **DR. WADE:** And then I think, parenthetically, a  
13 follow-on is -- would be appropriate.

14          **MR. SIEBERT:** And then for our information for  
15 this it'd be very helpful for us to have those  
16 six, specifically what numbers those are,  
17 'cause I don't know those.

18          **MR. HINNEFELD:** You can -- well, we could  
19 probably find them.

20          **DR. WADE:** You should know them. I mean you  
21 guys should be able --

22          **MR. HINNEFELD:** We've got the report --

23          **MR. GRIFFON:** From the past letters, you --

24          **MR. HINNEFELD:** The DR rep-- the DR report says  
25 --

1           **MR. GRIFFON:** -- you have them, yeah.

2           **MR. SIEBERT:** They have the specific numbers?

3           **MR. HINNEFELD:** The DR report says.

4           **MR. GRIFFON:** 44 and 49 were two of them. I --  
5 I don't have the other letter where the other  
6 ones were listed, but...

7           **MS. MUNN:** We're not under any real time  
8 pressure to get this --

9           **MR. GRIFFON:** No, I just want to -- I've said  
10 for four -- three subcommittee meetings I've  
11 said I would start this so I wanted to get this  
12 --

13          **MS. MUNN:** Right, right.

14          **MR. GRIFFON:** -- this -- a starting point,  
15 yeah.

16          **DR. WADE:** From my perspective, this is an  
17 unbelievably positive thing on many levels.  
18 What Stu said, the fact that this is an  
19 independent audit, and that's extremely  
20 valuable to everyone associated with the  
21 program, so you're all to be complimented. How  
22 you tell your story is -- is a bit of an art,  
23 and that's fine.

24          **DR. MAURO:** It's a tough story to tell.

25          **MS. MUNN:** It is a tough story, but it appears

1 to me to be very important that we get this to  
2 the Secretary's level before we -- if -- as a  
3 matter of fact, in my perspective, this kind of  
4 report is more important than the interim  
5 reports that we sent prior to this because this  
6 is -- this is a -- a serious milestone. We've  
7 looked at -- we now have looked at over 100 --

8 **MR. GRIFFON:** Right.

9 **MS. MUNN:** -- of these cases and here's what --  
10 here's what's transpired as a result.

11 **MR. GRIFFON:** Here's what -- here's the change  
12 we've effected, here's some accomplishments --

13 **MS. MUNN:** Exactly.

14 **MR. GRIFFON:** -- but also here's some remaining  
15 --

16 **MS. MUNN:** Yes.

17 **MR. GRIFFON:** -- concerns, yeah.

18 **MS. MUNN:** Here are the concerns --

19 **MR. GRIFFON:** Yeah.

20 **MS. MUNN:** -- we've turned up.

21 **MR. GRIFFON:** Yeah.

22 **MS. MUNN:** Here are the -- the -- I -- I would  
23 like to have the casual reader come away with a  
24 stronger sense of some sort of accomplishment  
25 than I personally received from just reading

1 through this the first couple of times.

2 Because we have accomplished a lot here, and --

3 **DR. WADE:** No, it's not trivial at all what  
4 you've --

5 **MS. MUNN:** So we can all work on it.

6 **MR. GRIFFON:** Can all work on it. You've got  
7 till tomorrow morning -- no.

8 **MS. MUNN:** Yeah, and give --

9 **MR. GRIFFON:** That's how quickly I put it  
10 together so I figured I'd give you the same  
11 time. I spent yesterday, you get today.

12 **MS. MUNN:** Right, exactly.

13 **MR. GRIFFON:** No, I -- I really did -- I  
14 understand that. I was working from the old  
15 boilerplates, but I just wanted to get it on  
16 the table at least the first time, and I -- I --  
17 -- you know, we can certainly -- it certainly  
18 needs some work, but this starts the dialogue,  
19 so...

20 **MS. MUNN:** Yeah, I -- I certainly hope --

21 **MR. GRIFFON:** And I'd appreciate any -- if you  
22 want to red-line or if you want to send e-mails  
23 with separate things to be included, either  
24 way, I'll try to -- try to rework this.

25 **MS. MUNN:** Or removed, as the case may be.

1           **MR. GRIFFON:** Yeah, or removed. Yeah. But you  
2 know -- you know, what I mo-- what I also fear,  
3 I do understand the length issue, but I also --  
4 I mean even if -- even if we reformat it to  
5 have like an executive summary and -- and  
6 something like that, I -- I really do have some  
7 concerns on making it just high level and --  
8 and too broad to -- for the Secretary to  
9 appreciate some of the details, you know, so --

10          **MS. MUNN:** Well, you want -- you want meat.

11          **MR. GRIFFON:** Yeah.

12          **DR. WADE:** Speaking for the Secretary, I  
13 wouldn't worry about length.

14          **MR. GRIFFON:** Exactly.

15          **DR. WADE:** Tell your story.

16          **MS. MUNN:** Yeah.

17          **MR. GRIFFON:** Yeah.

18          **DR. WADE:** Tell your story complete. They  
19 realize you're telling it to multiple audiences  
20 --

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

22          **DR. WADE:** -- anyway, so tell it well and tell  
23 it completely.

24          **DR. MAURO:** With the approach you took on --  
25 where you had the two or three-page -- it

1                   wasn't even that long -- front end --

2                   **MS. MUNN:** Uh-huh.

3                   **DR. MAURO:** -- and then you had this relatively  
4                   large attachment --

5                   **MS. MUNN:** Right.

6                   **DR. MAURO:** -- a lot of nuts and bolts --

7                   **MS. MUNN:** Uh-huh.

8                   **DR. MAURO:** -- that seemed to work.

9                   **MS. MUNN:** Yeah.

10                  **DR. MAURO:** Everybody wanted to hear --

11                  **MS. MUNN:** Nobody complained, that I heard.

12                  **DR. MAURO:** Well, I mean that's --

13                  **MS. MUNN:** They didn't have the nerve to  
14                  complain to me.

15                  **MR. GRIFFON:** What, for the procedures? I mean  
16                  we rewrote that at the Board meeting, too, and  
17                  that -- but that was a status report, too, and  
18                  this a little --

19                  **MS. MUNN:** Yes.

20                  **MR. GRIFFON:** -- different -- I agree, so...

21                  **MS. MUNN:** Yeah, it's different.

22                  **DR. WADE:** This is your stock in trade, if you  
23                  read the charter of the work-- of the -- the  
24                  Board, this is it.

25                  **MS. MUNN:** This is what we're supposed to be

1           doing.

2           **DR. WADE:** And we're at one and a quarter  
3 percent, is that -- is my math right, when we  
4 wrote --

5           **DR. MAURO:** Is that where we're at -- yeah.

6           **DR. WADE:** Yeah, we're half-way.

7           **MR. GRIFFON:** Are we really?

8           (Whereupon, Drs. Mauro and Wade, Mr. Griffon  
9 and Ms. Munn all spoke simultaneously.)

10          **MR. GRIFFON:** Another seven years on the Board,  
11 we'll be all set.

12          **MS. MUNN:** Which means we only have another  
13 five years.

14          **MR. GRIFFON:** Well, that's -- I think that  
15 might be good stopping point, but you know --

16          **DR. WADE:** But do we want to do anything to --  
17 so --

18          **MR. GRIFFON:** Yeah, --

19          **DR. WADE:** -- John can keep working?

20          **MR. GRIFFON:** -- talk about, yeah, but is there  
21 any more on that --

22          **UNIDENTIFIED:** I found where (unintelligible) -  
23 -

24          **MR. GRIFFON:** -- send me comments --

25          **MR. HINNEFELD:** We'll work it out.

1           **MR. GRIFFON:** -- and maybe we'll -- I don't  
2           even know if we'll have time to get a revised  
3           draft -- I might just report back to the Board  
4           that we are working on this, we have a  
5           preliminary draft that the --

6           **DR. WADE:** You want to --

7           **MR. GRIFFON:** -- subcommittee members are  
8           working -- yeah, that -- that we're -- but  
9           we're not ready to -- it's not ready to be  
10          pulled out in public yet.

11          **MS. MUNN:** That would seem judicious in view of  
12          the fact that NIOSH certainly is not going to  
13          have an opportunity to contribute anything  
14          prior to the September meeting.

15          **DR. WADE:** You want to kill an hour, ask the  
16          Board what they think about these generic  
17          issues --

18          **MS. MUNN:** Yeah, exactly.

19          **DR. WADE:** -- they'll tell you.

20          **MR. GIBSON:** Just an hour?

21          **MR. GRIFFON:** Right.

22          **MS. MUNN:** If you need a filler.

23          **MR. GRIFFON:** Okay, so the tenth set, Stu, did  
24          you --

25          **MR. HINNEFELD:** Yeah, I figured out where we

1           are.

2           **MR. GRIFFON:** Yeah.

3           **MR. HINNEFELD:** I don't know why we're at this  
4 point and no farther, but we have pre-selected  
5 cases. We have -- of the pre-selected cases,  
6 22 survived the review by -- for DOL by post-  
7 closure activity and the PER review to see how  
8 many have been reopened for PER.

9           **MR. GRIFFON:** Right.

10          **MR. HINNEFELD:** So 22 survived that. We have  
11 the additional information from ORAU and --  
12 let's see, I was just looking at these real  
13 quick -- I think seven of these have POCs above  
14 50 percent, nine of them have POCs  
15 (unintelligible) the 40s.

16          **MR. GRIFFON:** Right.

17          **MR. HINNEFELD:** The job titles -- you know,  
18 we've got a couple we don't know. There's one  
19 secretary/stenographer. The others look like -  
20 - you know, people who -- chances are going to  
21 be exposed. The reason I'm pretty confident I  
22 haven't distributed it is on the last version I  
23 could find it still has all the identification  
24 information in it, so I would not have  
25 distributed this version. I'd cut that out

1 before I distribute it back to you.

2 A way to do this would be to just send it -- I  
3 can do it either Friday or Monday. I'm barely  
4 in the office. I won't be back in the office  
5 till Friday and not much -- probably not till  
6 Friday afternoon, so depending on when I can do  
7 it, I'll either do it Friday or Monday, send it  
8 to the subcommittee members and -- and if you  
9 agree that these claims look okay, we could  
10 just make these 22 the tenth set.

11 **MR. GRIFFON:** Yeah.

12 **MR. HINNEFELD:** That would be a way to do it.

13 **MS. MUNN:** What number were we aiming for in  
14 the tenth set?

15 **MR. GRIFFON:** Well, I think we started with 30,  
16 didn't we, but we ended up --

17 **MR. HINNEFELD:** I can tell you that in a minute  
18 -- well, I might be able to. The way my  
19 computer's behaving, I don't know if I'll be  
20 able to tell you in a minute or not.

21 **MS. MUNN:** That's -- that's why I asked,  
22 because my memory was that we were after more  
23 than 22.

24 **DR. WADE:** Well, but is this --

25 **MS. MUNN:** 22 is (unintelligible).

1           **DR. WADE:** But are -- right. Now is this the  
2 first set for next year?

3           **DR. MAURO:** No, this is -- this -- we haven't  
4 fin-- we had 60 this year. We only have 40 so  
5 far.

6           **DR. WADE:** Okay, this is --

7           **DR. MAURO:** So we have 20 more that we need to  
8 do.

9           **DR. WADE:** Okay, so this would be --

10          **DR. MAURO:** In theory, it was --

11          **DR. WADE:** -- this would be the right number,  
12 if these 22 are --

13          **DR. MAURO:** This 20 -- if we could pick -- if  
14 you could sel-- pick 30, out of the 30, they  
15 could pick 20, 20 would basically fill the  
16 hopper for when we -- our obligation to you for  
17 this --

18          **MR. GRIFFON:** This can probably be a quick  
19 look, Stu, 'cause I think we're going to say go  
20 with all -- go with these 22 or go with -- you  
21 know.

22          **MR. HINNEFELD:** Yeah.

23          **MS. MUNN:** I imagine so.

24          **DR. WADE:** So you could send it out, the  
25 subcommittee could look at it. If they had any

1 gas, they could say to Mark, gas. If not, you  
2 go to the Board in early September --

3 **MR. GRIFFON:** Right.

4 **DR. WADE:** -- and you propose these 22. It's a  
5 plan.

6 **MR. GRIFFON:** Yeah, 'cause we've already had --  
7 had one cut at these so we're -- we -- we  
8 picked them once and then --

9 **MR. HINNEFELD:** Oh, one other thing we removed  
10 were the ninth set because when we selected --  
11 we made the pre-selection of the tenth set, the  
12 ninth set had not yet been finally selected,  
13 and so there were some of those --

14 **MR. GRIFFON:** Right.

15 **MR. HINNEFELD:** -- pre-selected  
16 (unintelligible) --

17 **MR. GRIFFON:** Right, that's right.

18 **MR. HINNEFELD:** -- so those were also removed.

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

20 **MR. HINNEFELD:** The pre-selection list, I  
21 believe, was 55 -- 55 cases long.

22 **DR. WADE:** But 20 -- 20's what you're looking  
23 for?

24 **DR. MAURO:** 20 -- yeah, that'll fill up the  
25 hopper.

1           **DR. WADE:** 22 is always good. What a -- what a  
2 country.

3           **MS. MUNN:** As long as we don't --

4           **DR. WADE:** Yeah, see -- see how smooth things  
5 work when I'm here?

6           **MS. MUNN:** As long as we don't have to every  
7 month, then we're fine.

8           (Whereupon, numerous comments were made by  
9 various participants.)

10          **MR. GRIFFON:** I'm just looking at the -- so,  
11 Stu, you didn't -- the last one I got sent to  
12 me was 3/24/08.

13          **MR. HINNEFELD:** Yeah. It was like middle of  
14 April when we got everything -- or late April  
15 when we got everything done. I don't know why  
16 it's not there. I really don't know.

17          **DR. WADE:** Where do you stand on the 40, John,  
18 are you --

19          **DR. MAURO:** Oh, oh, where are we -- tell me --  
20 what's the number? Our plan is to deliver the  
21 report by the end of September. That's where  
22 we -- in fact, that's one of the reasons I  
23 brought this up. Come the end of September, we  
24 will have delivered all deliverables that we  
25 owe you, except for these 20, and it puts us in

1 a position where there's no more work for us to  
2 do except workgroup meetings for closeout. But  
3 I mean, you know, all along over the past five  
4 years we always have two, three site profiles  
5 in the hopper, two or three SEC petitions in  
6 the hopper, a dozen or more procedures in the  
7 hopper, you know, all that going on.

8 **MR. GRIFFON:** We'll get some SEC work for you  
9 come this (unintelligible).

10 **DR. WADE:** Yeah, you'll get SEC work.

11 **DR. MAURO:** It's just going to like end like a  
12 brick wall, September 30 comes -- boom, we're  
13 done. What do we do now, you know?

14 **DR. WADE:** Well, you do these and you do SEC  
15 work.

16 **DR. MAURO:** Yeah -- no, if there's more, but it  
17 has to be authorized. I mean, you know.

18 **MR. GRIFFON:** Right.

19 **DR. WADE:** Do you have money to do more site  
20 profiles?

21 **DR. MAURO:** We've got \$1.7 million we need to  
22 spend. We're spending \$300,000 a month. That  
23 means we could work five more months on the  
24 money that we -- we're supposed to have spent  
25 by the end of September.

1           **MR. GRIFFON:** Stu, there's no way to get a  
2           initial cut for an eleventh set by --

3           **MR. HINNEFELD:** We're working on it. We should  
4           have it by the -- by the Board meeting.

5           **MR. GRIFFON:** Yeah, maybe we can get --

6           **MR. HINNEFELD:** I'll try to get out -- try to  
7           get out ahead of --

8           **MR. GRIFFON:** Yeah, maybe we can do our first  
9           cycle through that, I don't know.

10          **MR. HINNEFELD:** I cho-- I told the -- I took a  
11          little management initiative here and told them  
12          for the -- when the full internal and external  
13          set, I said rather than run them all, just run  
14          any ones that were completed in 2007 or 2008,  
15          so I'll see what I can get. If it's too small,  
16          we'll go back another --

17          **MR. GRIFFON:** Right, right, that'd be good,  
18          yeah.

19          **MR. HINNEFELD:** And then the random pool is  
20          going to pull from the whole -- the whole pool  
21          of available cases, so there'll be a random  
22          pool with a couple of hundred, and however many  
23          we get of the full internal and externals.

24          **MR. GRIFFON:** All right, I think that does it.  
25          Anything else for the...

1           **DR. WADE:** A wonderful meet. You got  
2 everything done you set out to do.

3           **MR. GRIFFON:** ... for the record? You got  
4 anything else for the record, Lew?

5           **DR. WADE:** That's for the record. These are --  
6 and don't lose sight of the worth that you do.  
7 This has been an extremely valuable process,  
8 not only to the agency, but also to the people  
9 we all serve, so you've done a fine job.

10          **MS. MUNN:** It's not easy.

11          **MR. GRIFFON:** Let's all catch a plane before  
12 the procedures workgroup.

13          **DR. WADE:** Yeah, you want to be here for that,  
14 that's -- that's tough stuff. Christine said  
15 she could handle the dose reconstruction, but  
16 the procedures were tough.

17          **MR. GRIFFON:** Yeah, we're -- we're adjourned.  
18 Thank you all.

19                 (Whereupon, the meeting was adjourned at 4:26  
20 p.m.)

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**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 Aug. 20, 2008; 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 18th day of Dec., 2008.

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**STEVEN RAY GREEN, CCR, CVR-CM, PNSC****CERTIFIED MERIT COURT REPORTER****CERTIFICATE NUMBER: A-2102**