

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

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ADVISORY BOARD ON RADIATION AND  
WORKER HEALTH

+ + + + +

SUBCOMMITTEE ON DOSE RECONSTRUCTION REVIEWS

+ + + + +

TUESDAY  
JUNE 27, 2017

+ + + + +

The Subcommittee convened via  
teleconference at 10:30 a.m. Eastern Time,  
David Kotelchuck, Chairperson, presiding.

PRESENT:

- DAVID KOTELCHUCK, Chairperson
- JOSIE BEACH, Member
- BRADLEY P. CLAWSON, Member
- WANDA I. MUNN, Member
- DAVID B. RICHARDSON, Member

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## ALSO PRESENT:

TED KATZ, Designated Federal Official  
NANCY ADAMS, NIOSH Contractor  
DAVE ALLEN, DCAS  
BOB BARTON, SC&A  
HANS BEHLING, SC&A  
KATHY BEHLING, SC&A  
GRADY CALHOUN, DCAS  
DOUG FARVER, SC&A  
ROSE GOGLIOTTI, SC&A  
JOHN MAURO, SC&A  
KEITH MCCARTNEY, ORAU Team  
JIM NETON, DCAS  
MICHAEL RAFKY, HHS  
BETH ROLFES, DCAS  
MUTTY SHARFI, ORAU Team  
SCOTT SIEBERT, ORAU Team  
MATT SMITH, ORAU Team  
JOHN STIVER, SC&A

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

2 10:32 a.m.

3 **Welcome and Roll Call**

4 MR. KATZ: Let's go with roll call.

5 (Roll call.)

6 MR. KATZ: Okay, that takes care of  
7 it. I think I would note for everyone the  
8 agenda is on the Board website under schedule  
9 of meetings, today's date, and you can follow  
10 along with that. I don't think there are  
11 materials posted on the website, just that.

12 And that's it. And Dr. Kotelchuck,  
13 it's your meeting.

14 CHAIR KOTELCHUCK: Okay, very good.  
15 Welcome, all. So we have the agenda for today.

16 (Simultaneous speaking.)

17 MR. KATZ: I'd remind everyone  
18 please mute your phone except when you're  
19 talking.

20 CHAIR KOTELCHUCK: Okay. Well, Rose  
21 sent the transcript to us. The transcript is  
22 out for the 4/13 meeting.

23 And by the way, Ted, as we saw it,

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1 it was very helpful receiving the transcript  
2 for review a couple of weeks before this  
3 meeting so that I have had a chance to review  
4 it and post it before we received the materials  
5 from Rose.

6 By the way, I'm having trouble  
7 getting onto the -- onto Skype, but I'm  
8 perfectly fine here with the BRS, as you are,  
9 Josie.

10 And also a note to folks: In  
11 rereading the reviewed transcript I did find a  
12 couple of minor errors. And I'll contact you,  
13 Hans and Rose, just to double-check what had  
14 happened. They're small, and I know it's  
15 posted, but I trust we can make one or two -- a  
16 few small changes now.

17 Well, our agenda, as we have it [is  
18 to] review outstanding cases from Sets 14-18.  
19 We have a more limited number of issues there.

20 **Review of outstanding cases**  
21 **from Sets 14-18**

22 CHAIR KOTELCHUCK: I don't know how

1 folks would like to go over the order, but my  
2 own feeling was, I'm on the BRS, was to perhaps  
3 do the expanded responses first, three out of  
4 the four which are 14-18.

5 So, if that sounds okay, and then  
6 we'll go on and finish up the other 14-18  
7 [cases]. Does that sound okay to folks?

8 MEMBER MUNN: Sure.

9 CHAIR KOTELCHUCK: Okay.

10 MS. GOGLIOTTI: Is Hans still on the  
11 line?

12 CHAIR KOTELCHUCK: Pardon?

13 MS. GOGLIOTTI: He is. Okay, great.

14 CHAIR KOTELCHUCK: So let's start  
15 out with Tab 409. We'll just do it in the  
16 order that we have it, that Rose sent to us.

17 MS. GOGLIOTTI: Actually, this one  
18 we previously discussed. I think this -- did  
19 John Mauro sign off? I had told him we would  
20 discuss this --

21 DR. MAURO: Hi Rose, this is John.  
22 Maybe I'll join in when you start just to see

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1 where I might fit in on the agenda. So I'll  
2 just listen in and you let me know when you  
3 need me. But I'll be listening in, you know,  
4 just to get some guidance from you.

5 MR. KATZ: And Rose, can you speak  
6 into the mic[rophone] a little closer, because  
7 it's tough to hear you.

8 MS. GOGLIOTTI: I apologize. I'm  
9 holding the mic but I'll try and speak up a  
10 little bit.

11 MR. KATZ: Okay, thanks.

12 CHAIR KOTELCHUCK: Alright. I  
13 understand that there are times you have to  
14 call other people to be with you. And so if  
15 that represents a problem --

16 MS. GOGLIOTTI: We can certainly do

17 --

18 (Simultaneous speaking.)

19 CHAIR KOTELCHUCK: It just seems to  
20 me that was the order that you sent us and that  
21 was the order, certainly, I reviewed them. So  
22 I just thought -- and also we discussed them

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1 before, so they're a little fresher in our  
2 minds. So --

3 MS. GOGLIOTTI: Well, the history of  
4 Tab 409 was initially -- this is a Bethlehem  
5 Steel case. NIOSH said to summarize: We spent  
6 extensive time historically working on  
7 Bethlehem Steel. And they kind of wanted these  
8 off the table.

9 After some additional dialogue we  
10 decided that most of them would be on the  
11 table. And that's when we put out the memo,  
12 which I did send to you. We did discuss this  
13 at the last meeting and it was your preference  
14 that we would wait and discuss it additionally  
15 at this meeting.

16 And NIOSH responded to it at that  
17 time. So let me just pull it up here in the  
18 BRS.

19 CHAIR KOTELCHUCK: So you're pulling  
20 it up on the issues resolution in the BRS.  
21 Okay?

22 MS. GOGLIOTTI: Correct.

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1 CHAIR KOTELCHUCK: And which one of  
2 those? Since I'm not on the Skype, which file  
3 is that?

4 MS. GOGLIOTTI: Oh, I apologize.

5 CHAIR KOTELCHUCK: No, that's okay.

6 MS. GOGLIOTTI: It's 14-18 Set, the  
7 AWE matrix.

8 CHAIR KOTELCHUCK: Okay, excellent.  
9 Alright, yes. Good.

10 MS. GOGLIOTTI: And the first one  
11 that's open is 409, Observation 2. Again, this  
12 is a Bethlehem Steel case.

13 CHAIR KOTELCHUCK: Yes.

14 MS. GOGLIOTTI: And here, this is  
15 just directly out of our expanded response. We  
16 did enter the expanded response in here to  
17 track things more closely.

18 And the observation essentially said  
19 that transparency of the Site Profile would be  
20 enhanced if the results of the air sampling  
21 were included in the appendix.

22 And essentially this is just a

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1 factual observation. We don't think it  
2 warrants an additional response. So if the TBD  
3 were to be revised we would suggest that it  
4 would benefit from including that information.

5 CHAIR KOTELCHUCK: Right, right.  
6 And since there are a number of items here, do  
7 we want to, just the Subcommittee, I assume  
8 that we will close this, that there is no issue  
9 that we have to consider.

10 MEMBER MUNN: Agreed.

11 MEMBER BEACH: Agreed.

12 CHAIR KOTELCHUCK: Okay. Alright.  
13 Let's go on.

14 MS. GOGLIOTTI: Okay, the next one  
15 is 409.1, and the finding states that the  
16 photon dose rate at the skin at one-foot from  
17 the source is understated by a factor of about  
18 1.9 if a claimant-favorable large source is  
19 used as a reference.

20 CHAIR KOTELCHUCK: Right.

21 MS. GOGLIOTTI: John, are you on the  
22 line?

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1 DR. MAURO: Yes, I'm here.

2 MS. GOGLIOTTI: Did you want to talk  
3 about 409.1?

4 DR. MAURO: Yes, this looks like the  
5 item that deals with -- at the time that this  
6 issue was raised, I believe this has to do with  
7 when doses are reconstructed a full  
8 distribution is assumed for -- I believe this  
9 is the one dealing with -- working with the  
10 geometric mean and the geometric standard  
11 deviation as input for -- and this is all the  
12 Site Profile now.

13 Keep in mind that everything we'll  
14 be talking about on Bethlehem Steel really  
15 pertains to the application of the Site Profile  
16 to a particular case. The cases, the  
17 individuals themselves, don't have any  
18 dosimetry data. So this is all really  
19 interpreting the Site Profile and how it  
20 applies to a particular case.

21 It also has to do with the fact that  
22 the Site Profile has undergone some revisions

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1 that were not reviewed by SC&A since we  
2 initially reviewed the SEC activities which go  
3 way back. You might want to keep that in mind  
4 in context.

5 So, when we review a case, at the  
6 time they reviewed the case, one of the  
7 concerns we had is that we were expecting to  
8 see assigning an upper end, maybe a fixed upper  
9 end value at the 95th percentile for this  
10 particular exposure at the time we made that  
11 comment.

12 Subsequent to that, this issue on  
13 when to use a full distribution, when you might  
14 use a fixed upper 95th percentile or upper end  
15 value for your exposure, was engaged in other  
16 venues.

17 And Jim Neton put out some nice  
18 material, not related to Bethlehem Steel, but  
19 pointing out that when you put in the geometric  
20 mean and the distribution, the full  
21 distribution, and then you run it through an  
22 IREP you pick off the upper end Probability of

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1 Causation.

2 And the end result is you really  
3 don't get that much of a difference in what  
4 your PoC [Probability of Causation] would be if  
5 you use the full distribution and then you run  
6 IREP where samples from these distributions  
7 pick off the upper end, the upper 95th  
8 percentile value.

9 You end up with a PoC that's really  
10 more or less identical to as if you were to put  
11 in a fixed value at the 95th percentile value.  
12 And that was something that came up and was  
13 demonstrated very nicely in the past.

14 So, bottom line is we're okay. I  
15 mean, I would recommend that this item could be  
16 closed because the approach that NIOSH used  
17 convinced us that, yes, using the full  
18 distribution does in fact result in a claimant-  
19 favorable outcome, and it is not necessary to  
20 always apply the upper 95th percentile value.

21 CHAIR KOTELCHUCK: Right. So in the  
22 BRS you say this finding should be changed to

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1 an observation. Right? Because nothing was  
2 done that was wrong. It was not wrong. It was  
3 appropriate.

4 DR. MAURO: Yeah, at the time we made  
5 the comment we were in the mode of thinking in  
6 terms of, well, when do you assign an upper end  
7 value, when do you assign the full  
8 distribution?

9 But then, after that dialogue and exchanging  
10 information with Jim, you know, this may be  
11 useful as an observation to point that out, the  
12 point I just made, or just withdraw it or close  
13 it. Either way. As far as I'm concerned it's  
14 been resolved.

15 CHAIR KOTELCHUCK: Right, right. It  
16 certainly sounds like an observation.  
17 Certainly it's not a finding. And therefore,  
18 folks from the Subcommittee, do you want to say  
19 should this remain an observation? Should we  
20 delete it entirely?

21 MEMBER MUNN: I don't believe we  
22 should delete it, because if the topic arises

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1       again it's always useful to have a record of  
2       what we've discussed and what we've deliberated  
3       on.    Changing it to an observation appears to  
4       be the appropriate move from my perspective.

5                   MEMBER CLAWSON:   I agree with Wanda.

6                   CHAIR KOTELCHUCK:   I do, too.   So,  
7       we'll change it to an observation, folks.

8                   409.2.   Good.

9                   MR.    BARTON:            Could I ask a  
10       clarifying question on that?   Because that was  
11       an interesting discussion.

12                   It sounds like, you know, if you use  
13       the 95th percentile as a fixed value versus a  
14       distribution -- I mean, typically we came up  
15       with the whole concept of using the 95th  
16       percentile to handle [the exposure for] workers  
17       that had a higher exposure potential versus  
18       maybe more intermittently exposed workers.

19                   But the fact of the matter is using  
20       the 95th percentile as a fixed value is going  
21       to end up in the same place PoC-wise.   I'm kind  
22       of wondering why we even have the option.

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1 CHAIR KOTELCHUCK: Someone want to  
2 respond?

3 DR. MAURO: This is John. I'm  
4 holding back waiting for Jim, because the  
5 demonstration that was made, at least as it  
6 applies to this class of problem, seemed to  
7 work. That is, using the full distribution did  
8 not give results that were substantively  
9 different than the upper 95th percentile for  
10 the values that we were working with.

11 Now, that may not always be the  
12 case. I guess all I can say is that it may not  
13 always be the case that you'll come up with  
14 comparable PoCs. And there may be times when  
15 the upper 95th percentile makes more sense.  
16 I'm not quite sure.

17 Jim, can you help me out here?

18 DR. NETON: I certainly wasn't  
19 anticipating this question today so I really  
20 can't comment. I don't think it's always the  
21 case. I mean, we've demonstrated that it's  
22 close, if not perfect.

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1           Unless Dave Allen's got some other  
2 insight here I really can't address that  
3 question off the top of my head, to be honest  
4 with you.

5           MR. ALLEN: Well, this is Dave. And  
6 I'm not positive on it. I wasn't ready for  
7 that question either. But I think, if I'm not  
8 mistaken, this has to do with how large the  
9 uncertainty is.

10          DR. MAURO: Yes.

11          MR. ALLEN: So, in some  
12 distributions it certainly is large enough to  
13 where the uncertainty of the risk models is  
14 irrelevant and you end up with the same PoC,  
15 whereas other ones it might not be so large and  
16 it can make a difference.

17           So I don't think we can make a  
18 wholesale program-wide declaration that we can  
19 always do one or the other. It works for  
20 Bethlehem Steel because the GSDs are high.

21          MR. BARTON: Okay. So this is kind  
22 of a site-specific characterization and not

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1 necessarily a program[matic] one.

2 MR. ALLEN: That's my belief. I  
3 couldn't swear to that, but I'm pretty sure  
4 that's the way it would come out if we analyzed  
5 that.

6 DR. MAURO: This is John. I'd like  
7 to make a suggestion. I think the issue itself  
8 is important. That is, there are times when  
9 the full distribution works well as opposed to  
10 -- and there are conditions when it makes more  
11 sense to use the full distribution because of  
12 the nature of the job the person has.

13 But I think it is important to sort  
14 of zero in on, well, when is it that you really  
15 should be using the 95th percentile? For two  
16 reasons:

17 One, the persons themselves are  
18 likely to have had a job which puts them at the  
19 upper end. And that the nature of the upper  
20 end for that particular, let's say, facility  
21 and job is such that a full distribution may  
22 not do the job justice.

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1           So what I'm hearing is that there  
2           are places where we do need to go with the 95th  
3           percentile and not just rely on the full  
4           distribution.       In this case, the full  
5           distribution served us well, but there may be  
6           other cases where they don't.

7           A little bit of guidance regarding  
8           that would be helpful.   I think we're okay  
9           here, but I agree, Dr. Kotelchuck, that it  
10          would probably be a good idea to know a little  
11          bit more about the conditions where you're  
12          really better off going with the 95th  
13          percentile.

14          CHAIR KOTELCHUCK:    Do we want to  
15          refer this to the Procedures Subcommittee?  We  
16          can act on it as an observation, because it's  
17          clearly the resolution in this case, and then  
18          send a note to the Procedures Subcommittee.

19          MR. KATZ:    I was going to suggest  
20          just that, Dave.

21          CHAIR KOTELCHUCK:    Okay.  Ted, would  
22          you do that?

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1 MR. KATZ: Yeah.

2 CHAIR KOTELCHUCK: Okay.

3 MR. BARTON: This is Bob. If I  
4 might offer, there is sort of a general  
5 guidance contained in the Coworker  
6 Implementation Guide that talks about when it's  
7 appropriate for the 95th percentile.

8 It talks about, well, it's your  
9 higher exposure employees, whereas those  
10 workers who were intermittently exposed, you  
11 know, not all the time, not in the highest  
12 places, that's when you look more towards the  
13 full distribution. So there is that.

14 That's the paper that you wrote,  
15 Jim. And so there is some language in there  
16 about when you should be applying the 95th  
17 percentile.

18 I'm not entirely familiar with the  
19 Bethlehem Steel case. It sounds like the  
20 original question was whether that worker sort  
21 of fit the mold of a higher exposed individual,  
22 or a more intermittently exposed individual for

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1 selecting whether you're going to apply the  
2 95th percentile versus the full distribution.

3 DR. NETON: Yeah, in the case of  
4 Bethlehem Steel it's one-size-fits-all and all  
5 workers were considered to be heavily exposed,  
6 the way the model is written. There's no  
7 differentiation between any of the worker  
8 classes in this case.

9 CHAIR KOTELCHUCK: Well, I mean, if  
10 we send a note to Procedures and then change  
11 this to an observation I think that takes care  
12 of it for us.

13 And given my desire as Chairperson  
14 to move on, I wouldn't mind going on to 409.3.

15 DR. NETON: This is Jim. I have a  
16 procedural question. Are we going to leave  
17 this observation open or do we close it? What  
18 does this do for us? We don't close  
19 observations by definition.

20 CHAIR KOTELCHUCK: That's correct,  
21 we don't.

22 MS. GOGLIOTTI: It's a finding.

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1 CHAIR KOTELCHUCK: No.

2 MR. KATZ: It was withdrawn or  
3 changed to an observation so it's no longer a  
4 finding.

5 CHAIR KOTELCHUCK: It is now an  
6 observation, 409.2 is changed to an  
7 observation.

8 MS. GOGLIOTTI: No, 409.1.

9 MR. KATZ: No, this was all 409.1,  
10 Dave.

11 CHAIR KOTELCHUCK: Right. That was  
12 changed.

13 MR. KATZ: So we haven't gone to  
14 409.2 yet, right?

15 MS. GOGLIOTTI: Correct.

16 MR. KATZ: Right.

17 CHAIR KOTELCHUCK: Okay, I was  
18 getting ahead of myself. Okay. Well, let's go  
19 on to 409.2.

20 MEMBER BEACH: Just for  
21 clarification, Dave, so this will be changed to  
22 an observation, and will it say that it was

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1 recommended to transferred over -- not  
2 transferred, but the Procedures Work Group  
3 would look at that portion of it?

4 CHAIR KOTELCHUCK: Right. A note  
5 will be sent to the Procedures Work Group.

6 MEMBER BEACH: Okay. And will it be  
7 noted also in the BRS under this observation?

8 CHAIR KOTELCHUCK: It should be.

9 MS. GOGLIOTTI: Yes.

10 CHAIR KOTELCHUCK: It's an action by  
11 the Subcommittee.

12 MEMBER BEACH: Okay, thank you.

13 MS. GOGLIOTTI: And we are  
14 officially closing this as an observation,  
15 correct?

16 CHAIR KOTELCHUCK: Right.

17 MEMBER MUNN: Observations don't  
18 need to be closed.

19 MS. GOGLIOTTI: We do close them  
20 internally, though.

21 MEMBER MUNN: They are observations.

22 MR. KATZ: We've been closing them

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1 all along even though --

2 CHAIR KOTELCHUCK: Yeah, in a sense  
3 closing is really accepting.

4 MR. KATZ: We're done with it.

5 CHAIR KOTELCHUCK: We've reviewed  
6 it. Okay.

7 MEMBER MUNN: I have only one  
8 question, and that is I'm not sure what  
9 additional deliberations Procedures can bring  
10 to this that hasn't already occurred.

11 You're more than welcome to do that.  
12 Of course, it's your prerogative and we'll  
13 certainly look at it. But I'm unclear as to  
14 what anyone anticipates that we might be able  
15 to do other than essentially reach the same  
16 conclusion we just reached, that it's primarily  
17 an issue of the size of population you're  
18 dealing with. But we'll be glad to look at it.

19 CHAIR KOTELCHUCK: Okay.

20 MEMBER MUNN: If anyone has any  
21 ideas about how to approach that in a new way  
22 please do let me know.

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1 CHAIR KOTELCHUCK: Okay. But I  
2 think we as a Subcommittee can't go further  
3 with this beyond changing it to an observation.  
4 If there's a change, or if there's a way to  
5 resolve this, it's outside the purview of the  
6 Committee.

7 Okay, let's go on.

8 MS. GOGLIOTTI: Okay. The next one  
9 is 409.2. The finding states that photon dose  
10 was underestimated or understated by about 15  
11 percent in the year 1952.

12 And here NIOSH agreed with us there  
13 was an error. They say this appeared to be a  
14 copy of the 1951 values, so it's suspected that  
15 a copy and paste error may have occurred.

16 The increase in dose is trivial and  
17 doesn't affect the compensation decision. And  
18 they will correct the error in the next TBD  
19 revision.

20 So, with that, I think we can  
21 recommend closure.

22 CHAIR KOTELCHUCK: Okay. Folks

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1 agree?

2 MEMBER BEACH: Agreed.

3 MEMBER CLAWSON: Agreed.

4 CHAIR KOTELCHUCK: Alright, so,  
5 closed.

6 MEMBER MUNN: So are we closing it  
7 or do we go to abeyance? It wasn't clear to me  
8 when I was looking at the material that we had  
9 this time that we were still -- and the  
10 question arose in the material itself: are we  
11 still following that protocol or no?

12 MR. KATZ: No, not for the Dose  
13 Reconstruction Subcommittee.

14 (Simultaneous speaking.)

15 MEMBER MUNN: -- a final action on  
16 it would be to include it in any new revision  
17 that comes along. We're no longer holding that  
18 in abeyance?

19 MR. KATZ: That's fine for the  
20 Procedures Subcommittee. We don't need to do  
21 that for Dose Reconstruction. I think we just  
22 close it and NIOSH will just update the --

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1                   MEMBER MUNN:       That's what I was  
2 asking, Ted.

3                   MR. KATZ:    Yeah.

4                   CHAIR KOTELCHUCK:    Okay.    Go on,  
5 shall we?

6                   MS. GOGLIOTTI:    Okay, the next one  
7 is 409.3.    NIOSH should verify that U.S. Army  
8 1989, which is a reference, is the correct  
9 source of the dose of 90 millirad per hour and  
10 provide a reference for the cited electron  
11 dose.

12                  CHAIR KOTELCHUCK:       Okay.    The  
13 question, in my mind, is there's a question of  
14 verifying the U.S. Army data.    And I'm not sure  
15 that's --

16                  MS. GOGLIOTTI:    We're not verifying  
17 the data.    We're verifying the reference is  
18 correct.

19                  CHAIR KOTELCHUCK:    Right.    If we're  
20 verifying that the reference is correct is that  
21 not an observation?

22                  MS. GOGLIOTTI:    Not in this context.

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1 And actually --

2 DR. MAURO: Do you have the  
3 attachment? There was a nice write-up that Bob  
4 Anigstein put together on this issue where he  
5 ran down the reference, I believe, in the  
6 materials to try to -- this also came up in  
7 another venue.

8 CHAIR KOTELCHUCK: Yes, yes, I see.  
9 And I can't open it from BRS.

10 MS. GOGLIOTTI: You should be able  
11 to open it from the BRS. Are you working off  
12 the printout?

13 CHAIR KOTELCHUCK: Yeah.

14 MS. GOGLIOTTI: Or the actual BRS?  
15 You're in the printout. Okay.

16 CHAIR KOTELCHUCK: Yes. I see.  
17 Okay. But if I went to the BRS itself,  
18 directly.

19 MS. GOGLIOTTI: Yes.

20 CHAIR KOTELCHUCK: Okay. I will do  
21 that in the future. I did not here.

22 MS. GOGLIOTTI: Okay, John, I have

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1 that pulled up for you here.

2 DR. MAURO: I guess the only thing I  
3 can point out is that there was -- in  
4 referencing the U.S. Army document, one of the  
5 things we did was, well, let's go take a look  
6 at it and see what it says.

7 And it didn't really have the  
8 information. But we ran it to ground and  
9 prepared this attachment, which I think helps  
10 show where this information came from. I guess  
11 it came from different locations and wasn't  
12 originally cited.

13 And so the attachment provides that  
14 documentation to say, okay, here's where it  
15 came from.

16 CHAIR KOTELCHUCK: Okay. Alright.  
17 So, Subcommittee, we can approve this, close  
18 it?

19 MS. GOGLIOTTI: John, what is your  
20 recommendation?

21 DR. MAURO: From our perspective,  
22 this issue has been resolved. That is, we

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1 understand where those numbers, the 90 mR per  
2 hour, et cetera, we know where they came from  
3 now. So, from our perspective, we understand  
4 it and it's a valid source.

5 The only matter here, I guess, goes  
6 back to the Site Profile deal whereby it makes  
7 reference to some material that isn't exactly  
8 correct.

9 And now we do have information that  
10 -- not the DR now but the Site Profile itself,  
11 when and if it's amended, just like we had this  
12 earlier comment, the Site Profile itself, at an  
13 appropriate time, when amended, just like we  
14 recommended adding in the table of airborne  
15 concentrations. Here's a place where the Site  
16 Profile would benefit by putting in the correct  
17 citations related to those exposure rates. And  
18 they're all here laid out in the appendix.

19 MR. KATZ: This is Ted. I'm not  
20 understanding why this is not an observation,  
21 because the dose reconstruction is not  
22 incorrect, it's just an incorrect reference in

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1 the Site Profile.

2 MEMBER BEACH: But there's also skin  
3 calculations that you have recommended NIOSH  
4 adopt. Can you talk about that, John?

5 DR. MAURO: I don't know if it's in  
6 this one.

7 MS. GOGLIOTTI: It is.

8 MEMBER BEACH: It's in the last  
9 sentence.

10 DR. MAURO: Okay, so it is? Okay.  
11 My apologies. I thought that would just  
12 confirm that, yes, we found the source, but it  
13 goes further.

14 DR. NETON: This is Jim. I might be  
15 able to comment on that.

16 CHAIR KOTELCHUCK: Surely.

17 DR. NETON: The skin dose in the  
18 last sentence actually refers to modifying the  
19 skin dose for the so-called Putzier effect by a  
20 factor of 15.

21 But the fact is that the uranium  
22 that was -- the billets that were provided to

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1 Bethlehem Steel were actually, had already been  
2 pre-rolled. And in fact, in your original  
3 review audit, there is a footnote to a table  
4 that essentially says that and states  
5 consequently the assumption the billets were  
6 not freshly cast appears reasonable.

7 So, I'm not sure why we would modify  
8 that at this point. This is different from  
9 what the original audit finding stated.

10 DR. MAURO: You're right, Jim. I  
11 agree. That last sentence in this write-up  
12 where we talk about the Putzier effect, I  
13 believe that has been put to bed for Bethlehem  
14 Steel and doesn't have play here.

15 MEMBER BEACH: Well, the last  
16 sentence in the last paragraph discusses that  
17 Putzier effect. So it was a little confusing  
18 to me.

19 DR. MAURO: And rightly so. I think  
20 we're in error here as it applies to Bethlehem  
21 Steel. Certainly there are other facilities  
22 where you have this double refinement process

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1 where the Putzier effect has play. But now  
2 that Jim reminded me, I don't think that it had  
3 play here at Bethlehem Steel. Is that correct,  
4 Jim?

5 DR. NETON: That's correct.

6 CHAIR KOTELCHUCK: Which would move  
7 this to what category?

8 MR. KATZ: Well, this is Ted. I  
9 mean, you have bundled an observation and a  
10 finding. But you could close them both.

11 I mean, they're bundled as one, but  
12 the first part, the wrong reference, would be  
13 an observation. This last bit about needing to  
14 account for Putzier effect, that would be a  
15 finding. I think you can close them both.

16 CHAIR KOTELCHUCK: Right. So let's  
17 just close it as a finding, since that's what  
18 it's listed as initially. Shall we go on to  
19 four?

20 MS. GOGLIOTTI: Yes. Okay, [409].4  
21 states NIOSH should explain [that] the source  
22 term for electron exposure is not based on

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1 consistent assumptions.

2 And here this actually appeared in  
3 our review that we discussed at the last  
4 meeting. However, we didn't formally close it.

5 So it states that notwithstanding  
6 our concerns regarding consistency, the use of  
7 TBD methodology is clearly more claimant-  
8 favorable than the TBD-6000 methodology and is  
9 reasonably similar to SC&A's Monte Carlo and  
10 particle calculations for a large slab. As  
11 such, we suggest that this be changed to an  
12 observation. End quote.

13 CHAIR KOTELCHUCK: Right. That  
14 seems to me to make good sense.

15 MEMBER BEACH: I agree with that.

16 CHAIR KOTELCHUCK: Yeah. Okay. An  
17 observation it becomes. And we can go on.

18 MS. GOGLIOTTI: [Point] Five. And  
19 it states that we were unable to determine how  
20 a surface concentration of 1.25E to the 7 dpm  
21 per meter squared was calculated.

22 And, going on, we also discussed

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1 this at the last meeting, but we did not  
2 formally close it. Our response states that a  
3 review of Revision 2 of the Simonds Saw & Steel  
4 Site Profile, which was only seven months after  
5 the dose reconstruction audit appeared,  
6 revealed that the revised surface concentration  
7 of 67,000 disintegrations per minute per 100  
8 cubic centimeters squared would corresponds to  
9 6.7E to the 6 dpm per meter squared. Therefore  
10 we accept the surrogate value and agree the  
11 finding should be closed.

12 CHAIR KOTELCHUCK: Okay. Good.

13 MEMBER BEACH: Agreed.

14 CHAIR KOTELCHUCK: Okay, closed.  
15 And now .6. By the way, .6 was left out in the  
16 letter that you wrote, that SC&A wrote. It  
17 went through all nine initial things that you  
18 considered findings, but you didn't list  
19 anything in six.

20 MS. GOGLIOTTI: Number 6 was the  
21 only one that NIOSH did not respond with their  
22 standard response that they responded to all

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1 the other ones with. So that one was  
2 accurately captured in the BRS.

3 CHAIR KOTELCHUCK: I see. Okay.  
4 Can we talk about it now?

5 MS. GOGLIOTTI: Yes. Here it says  
6 the DR report should explain why no doses are  
7 assigned to the post-1962 residual period.

8 And NIOSH responded saying that  
9 there is no residual contamination associated  
10 with Simonds Steel and there's no need in the  
11 TBD for the DR to explain why there's no  
12 radiation dose or residual contamination  
13 outside the dates specified on the DOE website  
14 or the residual contamination study that was  
15 written by NIOSH.

16 And if that's the case, that's fine.  
17 However, we do believe that the TBD should  
18 clearly state that there's no residual  
19 contamination associated with Bethlehem Steel,  
20 because that is different from Simonds.

21 DR. MAURO: Rose, this is John. We  
22 took a quick look at the TBD just to see what

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1       it had to say about the residual period for  
2       Bethlehem Steel. And I believe it's silent.

3               MS. GOGLIOTTI: It is silent on that  
4       matter.

5               DR. MAURO: Yeah, and I think that  
6       could be problematic.

7               (Simultaneous speaking.)

8               MS. GOGLIOTTI: You have to go into  
9       the DOE website and dig around quite  
10      considerably. I was able to verify that that  
11      is correct. However, I had to spend a  
12      considerable amount of effort to find that and  
13      it should be stated clearly in the TBD.

14              DR. MAURO: And the reason there was  
15      no residual -- I have to say, I'm surprised,  
16      because I know that Bethlehem Steel continued  
17      to do its work, steel.

18              CHAIR KOTELCHUCK: That is, rolling.

19              DR. MAURO: Steel rolling operations  
20      after it finished its AWE obligations.

21              And the only thing I can imagine why  
22      you could neglect a residual exposure at the

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1 end of the AWE period is one of two reasons.

2 One, there was some kind of clean-  
3 up. Or two, and this is kind of obscure, but  
4 any uranium that may have been deposited would  
5 have been rapidly covered up by the steel  
6 cuttings or steel-making operations and sort of  
7 buried.

8 And I'm not quite sure which of  
9 those two reasons is the reason why the  
10 residual period becomes null and void, so to  
11 speak, for Bethlehem Steel.

12 I remember when we looked at that it  
13 was the kind of operation where there was a lot  
14 of debris associated with the rolling  
15 operations, whether you were rolling uranium or  
16 rolling steel. And you could quickly cover up  
17 anything that was from the previous day, and  
18 perhaps clean-up. I'm not sure.

19 MR. KATZ: John. Jim can address  
20 this, because this is not a new subject.

21 MR. CALHOUN: I can, even. This is  
22 Grady.

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1           First of all, you've got to remember  
2           that the Bethlehem Steel uranium rollings were  
3           very, very limited.       This was not a big  
4           operation.   It was done on the weekends, and it  
5           was [not] only done, we know exactly how many  
6           rollings were done.

7           And secondly, we have documentation  
8           that discusses cleanup and recovery of any  
9           residue.

10           And thirdly, although limited, we  
11           have surveys of the actual rollers that show  
12           that they're below the free release criteria  
13           that currently exists.   So that's what that was  
14           based on.

15           This specific topic has been beaten  
16           to death over and over and over, and that's  
17           what we based everything on.

18           DR. MAURO:     Is that in the Site  
19           Profile?

20           MEMBER MUNN:   Yes.   Some of it is.  
21           Most of it is.

22           DR. NETON:    I'm not sure it needs to

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1 be in the Site Profile, John.

2 MR. CALHOUN: It doesn't need to be.  
3 Just because there's --

4 (Simultaneous speaking.)

5 DR. NETON: We've done 1,200 dose  
6 reconstructions at Bethlehem Steel and I  
7 challenge anyone to find out where we  
8 inappropriately reconstructed dose during the  
9 residual contamination period. That's not an  
10 issue.

11 CHAIR KOTELCHUCK: Well, then that  
12 really suggests that this should not be either  
13 a finding or an observation. That it's an  
14 erroneous position by SC&A. Is that correct?

15 MR. KATZ: That's absolutely  
16 correct.

17 MS. GOGLIOTTI: I don't think it's  
18 erroneous that we would recommend the inclusion  
19 that there was no residual contamination.

20 CHAIR KOTELCHUCK: Whether you would  
21 call it erroneous or not, there is no such  
22 problem, and it need not have been raised.

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1           My feeling is, in terms of what we  
2 do, this is not an observation; it's not a  
3 finding. And therefore, it seems to me we  
4 should just remove it.

5           I appreciate -- look, when in doubt  
6 say something, right? "See something, say  
7 something", as the saying goes.

8           And you were concerned about  
9 something, and I'm glad you raised it. But it  
10 doesn't make it an observation or a finding in  
11 this case because there was no residual  
12 contamination.

13           MEMBER MUNN: In other cases, other  
14 places that might have been a reasonable query.  
15 In this particular case, it is well covered by  
16 previous activities and our discussions. We  
17 know what happened there. There was no  
18 residual --

19           MS. GOGLIOTTI: I don't think that  
20 we're arguing that there should be residual  
21 contamination applied. I think we're just  
22 saying that the TBD is silent on that matter,

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1 and it wouldn't hurt it, and it would actually  
2 benefit the TBD if it just said there is no  
3 residual contamination.

4 MR. KATZ: As was just said, I mean,  
5 we have TBDs -- I mean, we have the TBDs for  
6 many, many AWEs, and not all AWEs have residual  
7 periods. And when they do have a residual  
8 period it is stated and covered.

9 I'm not sure that there is a policy  
10 stating for all the AWEs that don't have  
11 residual periods that they don't have it. We  
12 do -- NIOSH does a report on residual  
13 contamination to Congress and that's a factor  
14 in how that gets --

15 CHAIR KOTELCHUCK: I would say this.  
16 Given the discussion last time about how long  
17 ago this was done and how many years ago, I  
18 mean how much the Board said, okay, this is it,  
19 and we're re-looking at it now, I would just  
20 say, I would like to suggest that we withdraw.  
21 And I'm going to move that, that we withdraw  
22 this. What do other Subcommittee Members

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1 think?

2 MEMBER MUNN: I agree.

3 MEMBER CLAWSON: I don't. I think  
4 it would still do us good. I think it's just  
5 an observation. If at any time people come  
6 back, we have looked at this. There is no  
7 residual.

8 But is it part of the problem? You  
9 guys want to throw this out. Then all of a  
10 sudden we're back again going over this stuff  
11 again.

12 So just mark it as an observation or  
13 whatever you want to call it and go on from  
14 there. But it still should be documented that  
15 we've discussed it.

16 MEMBER BEACH: I agree with that  
17 also.

18 CHAIR KOTELCHUCK: You make a good  
19 point. The point that we made earlier as well,  
20 that it'll be on the record.

21 (Simultaneous speaking.)

22 CHAIR KOTELCHUCK: I would be open

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1 to withdrawing it, but I think an observation  
2 is probably the better choice. And I'll accede  
3 to that and join in and say that it's an  
4 observation.

5 MEMBER BEACH: I agree with that  
6 also.

7 CHAIR KOTELCHUCK: Dave or Wanda?

8 MEMBER MUNN: I'll be circumspect  
9 and be silent on this one.

10 CHAIR KOTELCHUCK: Okay. And David?

11 MEMBER RICHARDSON: I agree with  
12 that.

13 CHAIR KOTELCHUCK: Okay. It's an  
14 observation and we will accept that as an  
15 observation. {Point] Seven.

16 MS. GOGLIOTTI: Okay, the finding  
17 states that airborne dust loadings of uranium  
18 between rollings are underestimated.

19 And here David Allen responded  
20 saying that all airborne activity during  
21 operations at Bethlehem Steel was caused by  
22 resuspending contamination as well as directly

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1 from sources.

2 Resuspension would normally have the  
3 smaller effect during operations but the only  
4 cause after operations.

5 Because of this, estimation of  
6 resuspended contamination from operational air  
7 samples is believed to be bounding and does not  
8 need to include uncertainty.

9 And here, John, you responded saying  
10 that during the time period between AWE  
11 activities, the airborne dust loadings of  
12 uranium were assumed to remain the same during  
13 AWE operations pursuant to claimant-favorable  
14 assumptions. And as long as the case was  
15 denied, this represents appropriate claimant-  
16 favorable assumptions in accordance with the  
17 efficiency guidance.

18 Therefore, we recommend closure.

19 CHAIR KOTELCHUCK: Okay. Do we  
20 close this as a finding or an observation?

21 MEMBER BEACH: Agreed.

22 CHAIR KOTELCHUCK: Pardon?

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1                   MEMBER BEACH:    I said agreed as a  
2                   finding.  I believe that's what it is, yes.

3                   CHAIR KOTELCHUCK:  Okay.  Others?

4                   MEMBER CLAWSON:  Finding.

5                   CHAIR KOTELCHUCK:  Okay.  We close  
6                   it as a finding.

7                   MR. CALHOUN:  Wait a second, did we  
8                   do anything to fix that, if it was a finding?  
9                   Didn't we just state what the explanation was?

10                  I mean, if we're not changing  
11                  anything to fix what the thing is, it's not a  
12                  finding; it's an observation.

13                  MEMBER MUNN:  Not necessarily.  Just  
14                  because it's classified as a finding doesn't  
15                  mean that there is a change that has to occur  
16                  as a result of deliberating it.

17                  MR. CALHOUN:  Well, it means that  
18                  it's kind of a departure from a written  
19                  document or something that's wrong.  And if  
20                  we're not going to fix it, then it's an  
21                  observation in my opinion.

22                  Because we get graded on how many

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1 findings we have, and if this is something that  
2 we're not going to change, and we still find it  
3 satisfactory to do dose reconstructions this  
4 way, it's just an observation.

5 DR. MAURO: This is John. I'd be  
6 glad to jump in a little bit, too. I'm tending  
7 to agree with NIOSH in that, see, when we  
8 looked at this, and we saw that this was a  
9 special case. We had these in-between periods  
10 where there was no rolling operations.

11 And the fact that they continued to  
12 use the same dust loading shows that, oh, well,  
13 that's a very conservative assumption.

14 In retrospect if I were doing it  
15 today, I would say just wait, and I wouldn't  
16 make this a finding. In fact, I probably would  
17 just make it a point that we're fine with using  
18 this approach, as long as --

19 And here's the only important thing,  
20 as long as it's denied: Because it is an  
21 unrealistic upper bound. And as long as you're  
22 denying, it becomes an efficiency issue. That

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1 would be the only thing that I think is  
2 important to know here.

3 But I sort of feel the same way  
4 NIOSH does in that the approach they use is  
5 perfectly consistent with the way in which they  
6 do these dose reconstructions for efficiency  
7 purposes.

8 MEMBER CLAWSON: Well, then close it  
9 as an observation, then, and I understand NIOSH  
10 is sensing some findings. I have no problem  
11 with that.

12 CHAIR KOTELCHUCK: I'll go along  
13 with that as an observation.

14 MEMBER BEACH: Dave, I agree with  
15 that also.

16 CHAIR KOTELCHUCK: Okay. Then let's  
17 accept that as an observation and go on.

18 MS. GOGLIOTTI: Okay. [409].8  
19 states that some of the average surface  
20 concentrations reported in Table 3 of the TBD  
21 appear to be inconsistent with the surface  
22 concentration measurements reported in Table 2

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1 of that document.

2 MR. KATZ: You're getting harder and  
3 harder to hear.

4 MS. GOGLIOTTI: I'm sorry, I'll try  
5 and speak up.

6 MR. KATZ: Thanks.

7 MS. GOGLIOTTI: And then NIOSH  
8 responded saying that the values in Table 3 are  
9 actually correct. However, an error exists in  
10 Table 2. Table 2 indicates that the  
11 contamination values are in units of dpm per  
12 100 centimeters squared. However, the values  
13 are actually taken directly from the surveys  
14 that were direct measurements.

15 The instrument used 75 centimeter  
16 squared active surface area where the value was  
17 dpm per 75 centimeters squared. The  
18 measurements were normalized in Table 3 since  
19 Table 3 was used for the intake rate  
20 calculation, but the error did not impact the  
21 calculated intake rate.

22 And here, NIOSH did agree that there

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1 was an error in Table 2. And presumably,  
2 they'll correct it whenever the next revision  
3 of the Site Profile is issued. We recommend  
4 closing the finding.

5 CHAIR KOTELCHUCK: So let me  
6 understand. Is this a problem in the  
7 reporting?

8 MS. GOGLIOTTI: This is a problem in  
9 the TBD where there's an error in Table 2,  
10 which did not affect this case. However, we  
11 initially thought it did because the error in  
12 Table 2 makes Table 3 look incorrect, but the  
13 error actually was in Table 2.

14 CHAIR KOTELCHUCK: Okay. I see what  
15 you're saying. So, we should -- sounds like we  
16 should close it as a finding.

17 MEMBER BEACH: Agreed.

18 CHAIR KOTELCHUCK: Okay. Number  
19 nine.

20 MS. GOGLIOTTI: Number nine says  
21 there appears to be an error in ingestion rate  
22 for non-rolling days in Table 5 of the TBD.

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1           And NIOSH did come back, but John,  
2           you responded saying that this is a Site  
3           Profile issue concerned with the way ingestion  
4           doses are derived during residual period.

5           NIOSH acknowledges that the TBD  
6           needs to be revisited with respect to this  
7           matter. And it doesn't have a substantive  
8           effect on this particular dose reconstruction.

9           (Simultaneous speaking.)

10          DR. MAURO: This created -- in light  
11          of the previous discussion, and I could use a  
12          little help here again, it almost -- my  
13          understanding here is that this issue arose  
14          because there was an ingestion pathway and that  
15          the ingestion pathway concern that we raised  
16          here had to do with a residual period.

17          As we know, the way in which  
18          ingestion doses are derived is different for  
19          operations versus post-operations. And we went  
20          through that in other venues.

21          And in this matter, the point that  
22          was being made for better or worse was that it

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1 looks like that this wasn't done. That is, the  
2 current method for doing ingestion doses during  
3 residual periods was not followed.

4 There's this OTIB-9 approach, and  
5 then there's what I would call the Charley Yu  
6 approach that Jim and I [used] on previous  
7 occasions.

8 Now, my dilemma is that the  
9 implications of this is that there wasn't a  
10 residual period. Unless I'm confused. So that  
11 sort of contradicts our previous discussion.

12 I could use a little help here  
13 myself. I thought we had -- we were ready to  
14 say that, well, the ingestion doses were  
15 minimal, first of all. But you really didn't  
16 follow the protocol that was agreed upon in the  
17 interim at other venues on how to do it for the  
18 residual period.

19 But now, the problem I'm having is,  
20 wait a minute, I thought there was no residual  
21 period. So could we clear this up a little  
22 bit?

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1 CHAIR KOTELCHUCK: Good point.

2 MR. ALLEN: Hey John, this is Dave  
3 Allen. I actually bumped my receiver and lost  
4 my connection about halfway through what you  
5 were saying. But I think I followed, and I'll  
6 try to answer.

7 As far as the conversations we've  
8 had in other Work Groups as far as residual  
9 versus operational, the same still somewhat  
10 applies, or the concept applies here, because  
11 we had operational day followed by essentially  
12 a month of non-uranium work.

13 Bethlehem Steel is unique in that  
14 situation, and because of that, this was  
15 discussed quite a bit in detail when we looked  
16 at the TBD.

17 And it was actually SC&A that  
18 developed a technique that they wanted to use  
19 for essentially, if you remember, the dilution  
20 factor.

21 DR. MAURO: Yes, yes, it's coming  
22 back. Yes.

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1                   MR. ALLEN:     Right.     And it was a  
2     separate dilution factor for airborne versus  
3     ingestion.     The one for ingestion was 0.147.  
4     It comes from SC&A's supplemental review from  
5     September 2005.     And that's what was used in  
6     the TBD.

7                   DR. MAURO:     I remember that, this  
8     dilution effect.     So what we're really talking  
9     about here is this is a very special case of  
10    not residual period issue, but actually the  
11    window between rollings and the fact that  
12    during that window what happens is you might  
13    have had some fresh uranium deposit.     The AWE  
14    went on hiatus for a week or whatever, or a  
15    month.

16                   And     then     uranium     operations  
17    continue.     That uranium residue accumulates,  
18    commingles with any uranium that might have  
19    been deposited previously.     Yes, it's all  
20    coming back.

21                   I think Bob Anigstein came up with  
22    an approach to try to deal with this.     Which of

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1 course is unique to Bethlehem Steel. It really  
2 has no analogy that I can even recall.

3 So this does not deal with what we'd  
4 call the classic residual period. This really  
5 deals with that in-between period where there  
6 were no uranium rollings going on, but it was  
7 still during the AWE period, if you see what  
8 I'm saying.

9 And I think that solves everything.  
10 I mean what I'm getting at. I have to  
11 apologize. This goes back many years, and now  
12 that you refreshed my memory about this issue,  
13 this is not -- you're saying, no, this is not a  
14 residual period issue; this is just during the  
15 hiatus between AWE rollings. And there was  
16 this unique approach taken to deal with the  
17 inadvertent ingestion during that period.

18 Thank you for reminding me. I  
19 understand it, and I agree with it.

20 CHAIR KOTELCHUCK: Thanks for the  
21 clarification.

22 Then I think, to me, that satisfies

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1 me, and I think we should move to close.

2 MEMBER BEACH: Agreed.

3 MR. KATZ: It's not a finding,  
4 right? Like the other issue. There's no error  
5 in the dose reconstruction.

6 MEMBER MUNN: No, there was no  
7 error.

8 CHAIR KOTELCHUCK: That's right.

9 MEMBER CLAWSON: That's correct. I  
10 don't see it as a finding. This is Brad.

11 CHAIR KOTELCHUCK: Okay.  
12 Observation it is. So .9 becomes now an  
13 observation. Okay. We have resolved Bethlehem  
14 Steel and all the points on it. Good. I'm  
15 glad. So that memo that you folks sent out,  
16 SC&A sent out, and our discussion has resolved  
17 lots of these, all of the issues remaining for  
18 Bethlehem Steel. Good.

19 Now we go on to --

20 MS. GOGLIOTTI: If I may, can I  
21 suggest while we have John Mauro on the line  
22 that we do 360.3, and that way he

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1 doesn't need to be on the call for one more  
2 finding for the rest of the day.

3 CHAIR KOTELCHUCK: Right, 360.3.  
4 Okay. Ah yes, the BONUS Reactor. Okay.

5 MR. SIEBERT: This is Scott. Just  
6 for clarification this is in the same set,  
7 correct?

8 MS. GOGLIOTTI: Yes, the same set.

9 CHAIR KOTELCHUCK: Right, 14 through  
10 18 AWE.

11 MR. SIEBERT: Just verifying, thank  
12 you.

13 CHAIR KOTELCHUCK: Yes. Good.  
14 Okay.

15 MS. GOGLIOTTI: And this finding  
16 stated that there was insufficient evidence  
17 presented for the assigned internal dose.

18 DR. MAURO: There's a story here.  
19 Perhaps I can help out a little bit.

20 NIOSH is in the difficult position  
21 of trying to assign internal doses to workers  
22 at the BONUS Reactor. This is one of the

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1 reactors, the research reactors I believe, in  
2 Puerto Rico.

3 And the question was: Okay, we want  
4 to try to assign some internal dose, if we can,  
5 to the workers.

6 But there really wasn't sufficient  
7 data in order to do that. So a surrogate  
8 approach was taken. And certainly anyone, if  
9 I'm not communicating this accurately please  
10 help me out, but I believe that the decision  
11 that was made by NIOSH was well, let's take  
12 advantage of the data, the environmental data  
13 at INL for locations that I believe had  
14 reactors that were not completely dissimilar  
15 from the BONUS Reactor.

16 And my position was: You can't do  
17 that. The whole [set of] circumstances  
18 surrounding INL and its environmental levels,  
19 if you were to say, okay, I was going to put  
20 this to the test on the surrogate data test, it  
21 would fail.

22 So I would say you really can't do

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1       that.

2                   But at the same time, I understood  
3       that there probably wasn't -- I believe the  
4       record showed that there really wasn't very  
5       much fuel failure or reason to believe that  
6       there was internal exposures that could have  
7       occurred at the BONUS Reactor.

8                   And I agree with that, too. So you  
9       find yourself in the position of: Well, listen,  
10      we're trying to assign some internal dose, but  
11      how are we going to do that?

12                  And my takeaway, and this was in my  
13      write-up, is that well, when you're in this  
14      circumstance one of the strategies that NIOSH  
15      has used in the past was, I believe it's OTIB-  
16      033, whereby you say, okay, here we've got a  
17      reactor. We know it's under radiological  
18      controls. We've got a good health physics  
19      program going. And what you do then is say,  
20      well, if we want to put a plausible upper bound  
21      on what internal exposures might have occurred  
22      if you don't have air sampling measurements or

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1 bioassay data to draw upon for a given worker  
2 or for the workers in general, you go to some  
3 fraction of an MPC or a DAC as being, well, we  
4 could say with a degree of confidence that  
5 because of the HP programs, it would be 10  
6 percent or some fraction of derived air  
7 concentration or an MPC if that's the time  
8 period.

9 That seems to be a strategy to come  
10 at this problem that is more defensible than  
11 using INL environmental airborne concentrations  
12 as a surrogate.

13 At the same time, I'll also admit  
14 that even that approach, this fraction of a DAC  
15 OTIB-033 approach may be overly conservative,  
16 even here given that I believe there's some  
17 evidence that there was very little fuel  
18 failure or concern about internal exposure.

19 But of all the different strategies  
20 that might be available to NIOSH to try to  
21 assign something, it seems to me that was the  
22 closest that I could think of.

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1 MS. GOGLIOTTI: John?

2 DR. MAURO: Yes.

3 MS. GOGLIOTTI: Since your response,  
4 Beth did come back and respond again.

5 DR. MAURO: Oh, okay.

6 MS. GOGLIOTTI: And let me just read  
7 her response.

8 To explore any impact of this  
9 finding, the case was reevaluated using the  
10 complex-wide overestimate from OTIB-18, as  
11 suggested by SC&A.

12 The probability of causation  
13 increased less than 4 percent, remaining below  
14 40 percent.

15 Also, all claims from the BONUS  
16 Reactor, as well as the Puerto Rico Nuclear  
17 Center, were reviewed and each of the other  
18 claims is for a job title more in line with  
19 environmental intakes than operational intakes.

20 Therefore this finding does not  
21 appear to have an impact on the claims revised  
22 to date.

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1                   And just to clarify, job title more  
2                   in line with environmental intakes, you mean  
3                   like an administrative position?

4                   MR. ALLEN:     This is Dave.     I'll  
5                   answer that.    I don't know how much detail I  
6                   can say in a meeting like this, but one was an  
7                   accountant/secretary type of thing.

8                   MS. GOGLIOTTI:   Okay.

9                   DR. MAURO:     And does that follow  
10                  this fraction of a DAC approach?  I remember 18  
11                  and 33 sort of relate.

12                  MR. ALLEN:     Right, 18 basically, as  
13                  I recall, gives a complex-wide overestimating  
14                  approach.  And 33 allows you to take a fraction  
15                  of that.

16                  DR. MAURO:     Yes.

17                  MR. ALLEN:     This was actually just  
18                  applying 18 without taking a fraction.

19                  DR. MAURO:     Oh, so it's even more  
20                  conservative.

21                  MR. ALLEN:     Yes.  I mean, basically,  
22                  you probably have a point:  That the sum of the

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1 environmental is probably not the right way to  
2 go.

3 All I'm pointing out with this  
4 comment response is that, if we put an  
5 overestimating approach in there, it still  
6 doesn't affect this claim.

7 DR. MAURO: I agree. The way I look  
8 at it is -- I remember the OTIB-18 was  
9 supplemented with 33 so that you can get even  
10 more realistic if you need to.

11 And so basically, the strategy  
12 you're adopting is to go with the site-wide  
13 generic approach of 18/33, and I'm fine. That  
14 was basically what I was trying to recommend.

15 MEMBER MUNN: OTIB-18 has been  
16 worked over pretty well.

17 DR. MAURO: Yes. That's all been  
18 reviewed and approved.

19 MEMBER MUNN: Yes, long since.

20 MS. GOGLIOTTI: So based on that, I  
21 think we can recommend closure.

22 DR. MAURO: I'd agree with that.

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1 MEMBER BEACH: I agree.

2 MEMBER CLAWSON: Sounds good.

3 MEMBER MUNN: Yes.

4 MS. GOGLIOTTI: Okay. Closed. Now  
5 Dave, did you want to continue on with the  
6 expanded responses? Did we lose Dr.  
7 Kotelchuck?

8 CHAIR KOTELCHUCK: You did lose me.  
9 I was on mute and forgot that. I usually stay  
10 off of mute, but we had a lot of noise here in  
11 the background.

12 I did ask a question, and no wonder  
13 people didn't answer. I said that, for the  
14 particular case here, what we're saying -- do I  
15 understand that what we're saying is that the  
16 overestimation works perfectly -- works  
17 appropriately for this case.

18 But my question was, is there  
19 another case -- another case could occur which  
20 would not be resolved in this fashion if we had  
21 somebody who was involved with operations? We  
22 don't have to resolve that. All we can say is

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1 we're resolving this case, and we're closing  
2 it. Is that correct?

3 MEMBER MUNN: Correct.

4 DR. MAURO: I'm sorry to interrupt,  
5 but I think that's a solution for the BONUS  
6 Reactor. Now we're talking the solution for  
7 internal exposure that is being proposed for  
8 this worker. I think it would be universal for  
9 anybody who worked at the BONUS Reactor because  
10 I think there's some evidence that there really  
11 wasn't any potential for internal exposure.

12 And this OTIB-18/33 approach is, in  
13 fact, a good way to place a plausible upper  
14 bound on internal exposures for any time that  
15 you would have a situation, another case.

16 Let's say we ran into another case  
17 at the BONUS Reactor where the person was  
18 working there, and there really is no reason to  
19 believe he had very much internal exposure at  
20 all for the same reasons we don't believe this  
21 person had it.

22 I would say that it would have broad

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1 applicability and not necessarily only this  
2 case at the BONUS Reactor.

3 CHAIR KOTELCHUCK: With OTIB-33.

4 DR. MAURO: Yes. I agree with the  
5 OTIB-18/33 approach.

6 CHAIR KOTELCHUCK: Yes. Okay.  
7 Fine, good. So we close. We're closing, and  
8 I'm back online. Sorry.

9 So the question was, where do we go  
10 to next. And we were starting with the cases  
11 where we had the extended discussion. We  
12 started with Bethlehem Steel. And I would then  
13 go to, I guess -- I guess the next one was the  
14 Hanford, Lawrence Livermore National Lab.

15 DR. MAURO: Since that's closed now,  
16 I'm going to break from mute. It was nice  
17 speaking with everyone, so I'll bid my adieu.

18 CHAIR KOTELCHUCK: Thank you for  
19 your input.

20 DR. MAURO: Bye-bye.

21 CHAIR KOTELCHUCK: Okay. One of the  
22 cases was at Hanford 42. That's actually the

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1 [Sets} 19 through 21, right?

2 MS. GOGLIOTTI: This one, yes, 42  
3 and 19 through 21, correct.

4 CHAIR KOTELCHUCK: Okay. Then let's  
5 -- can we go ahead with that one?

6 MS. GOGLIOTTI: Yes. Bob, are you  
7 on the line still?

8 MR. BARTON: I'm right here, Rose.  
9 Alright.

10 So this one we've had some  
11 discussion on, especially at the last meeting.  
12 I'll just give a little bit of background here.

13 The original finding: We were  
14 looking at this case, and we noticed that for  
15 certain years, specifically '57 through '71, we  
16 were not seeing any missed shallow doses being  
17 applied for the claimant, although the years  
18 prior to that, to '56 and the years after that,  
19 '72, we were seeing missed dose applied.

20 And so what I had originally done is  
21 I went in and said: Why are we not seeing any  
22 missed dose applied for this period of time?

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1           And I had found what I thought was  
2           an error in the coding of the Hanford tool.  
3           And it's these Excel workbooks that kind of  
4           automate the process for dose reconstructors.

5           And so I presented where I thought  
6           the error was occurring in the coding. And  
7           what happened was we got a response from NIOSH,  
8           and they said: Well, no, for this case what  
9           we're assuming is that shallow doses are not  
10          actually electrons.

11          What they are is they're going to be  
12          low energy photons. And for that period of  
13          time that was in question, the Hanford  
14          dosimeter actually had three elements. It was  
15          deep, shallow, and then an X-ray component,  
16          which was the third component.

17          And what NIOSH presented as the  
18          technical defense was that, well, if you don't  
19          see any sort of positive reading on that third  
20          component, the X-ray component, it's just not  
21          likely that you're exposed to a low energy  
22          photon source.

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1           And so unless we see that positive  
2 value in the X-ray doses, then we're not going  
3 to assign any missed, or we really shouldn't be  
4 assigning any measure either shallow doses  
5 because the positive X-ray component  
6 essentially serves as the criterion for that  
7 period, for when you should be assigning these  
8 doses.

9           And so we brought in our own  
10 external dosimetry expert and we talked about  
11 this at the last meeting. We really don't have  
12 any comments on the technical nature of that.

13           One thing we'd say is that that  
14 information -- how you interpret the dosimeters  
15 at Hanford for that period -- we feel that's  
16 important information to be put into the TBD  
17 because it is a technical judgment, and while  
18 we agree it makes sense, obviously for the  
19 transparency of the program, it just makes  
20 sense for any sort of outside parties or later  
21 reviews to say, okay, they were assuming low  
22 energy photons, but they also had this criteria

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1       that you needed an X-ray component before  
2       assigning it.

3               So we agreed with the technical  
4       aspect of it. But I still had some concerns on  
5       what I feel is a small coding error in the  
6       workbook for those years, in that even though  
7       it might have worked for this case, concerns  
8       remain that in other situations it might be  
9       returning an erroneous result when you're  
10      trying to count the number of missed doses for  
11      shallow.

12              And so we wrote up this memo. And  
13      at that meeting, I tried to explain what the  
14      error was I was seeing, and it was requested  
15      that we produce this memo so that we could show  
16      specifically where we think that the workbook  
17      might be going awry.

18              And so this is the memo that you see  
19      up here on the screen. And what I did was  
20      basically just went in and created a fake  
21      exposure scenario where -- to test this concept  
22      of having the X-ray doses be positive to be

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1 able to get the shallow doses. But then also  
2 that raised questions about, well, if we're not  
3 assuming that they're low energy photons and  
4 thus don't need that positive X-ray, I think  
5 you're still seeing an error there.

6 Then we also came across, because of  
7 the function of the workbook, for some odd  
8 reason, if you put in a positive ring dosimeter  
9 result, it will tally up a missed shallow dose  
10 for no real rhyme or reason.

11 So that's what we kind of wrote up  
12 in our memo. I'm not sure if DCAS and ORAU  
13 have had enough time to really look into that.  
14 So I guess I'd turn it over to them briefly to  
15 see what their thoughts are on it.

16 MR. SIEBERT: This is Scott. Let me  
17 just let you know, yes, we looked at it for  
18 you, and we, as of yesterday, because you had  
19 just posted it not that long ago, we put a  
20 response up as well.

21 And I know you haven't had a chance  
22 to look at it because you probably didn't even

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1 know it was there, but we do have Matt Smith,  
2 the external dosimetry expert on our side, on  
3 the line.

4 Would it be helpful to you if he  
5 just kind of walked through the general  
6 responses that we have on the issues, and then  
7 you can review the actual paper at your  
8 leisure?

9 MR. BARTON: That's fine. I'm not  
10 sure if the question that remains is really  
11 about the technical aspects of external  
12 dosimetry but rather about how the tool was  
13 developed.

14 MR. SIEBERT: It actually does have  
15 to do with both pieces because the tool is  
16 implementing some external dosimetry thought  
17 process that Matt can probably get into. Matt,  
18 does that sound right?

19 MR. SMITH: Sure. And we've got  
20 Keith McCartney on the line, too, who's our  
21 tool development manager.

22 With respect to the direct question

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1 about low energy photon dose being applied if  
2 the X-ray value is zero but we have a positive  
3 ring dose, that was done basically to deal with  
4 a very rare instance.

5 And we use the presence of ring  
6 dosimetry I think for a particular claim, if  
7 Keith can refresh my mind on that, to apply the  
8 low energy photon dose. Again, using the ring  
9 dosimetry as a claimant-favorable assumption  
10 that they were maybe working at PFP.

11 It turns out -- Keith went and  
12 looked at a big retrospective of all the data  
13 that we have in the database and really only  
14 found two records, in other words two instances  
15 where we end up with zero X-ray dose and  
16 positive ring dose.

17 So it turns out to be a very rare  
18 condition.

19 In our response, Keith does outline  
20 how the tool goes through the logic process of  
21 doing that evaluation.

22 So the bottom line on that

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1 particular issue, it's a very rare condition to  
2 have occur. And the reason for the tool  
3 assigning that low energy photon dose is again  
4 to make a claimant-favorable dose assignment.

5 With regards to the issue of the  
6 overall logic of this tool dealing with things  
7 properly if the Energy employees' exposures to  
8 electrons, our answer to that is yes.

9 And we give a data table that shows  
10 all the missed dose that is assigned given the  
11 different beta, gamma, and X-ray component  
12 settings or results if you will.

13 The bottom line on that front is if  
14 we have a skin claim, we're going to be using  
15 OTIB-17 logic. And because of that multi-  
16 element film dosimeter, the logic becomes quite  
17 complicated during that time period.

18 And so Keith and his team have  
19 actually developed a Visual Basic code to deal  
20 with that logic tree.

21 That's all broken out in our  
22 response to what we call issue number 3 from

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1 the SC&A memo.

2 In most every case, missed dose is  
3 given as photons 30 to 250 keV, except for if  
4 we'd have a zero in the beta column and  
5 positive values in gamma and X-ray.

6 In that situation, we choose to  
7 assign the missed doses electrons or photons  
8 that are low energy depending on the facility.

9 So if it was PFP [Plutonium  
10 Finishing Plant], we're going to go photons  
11 less than 30 keV. If it's elsewhere, say a  
12 reactor, we'll go electrons greater than 15  
13 keV.

14 So, on the front of: Do we do things  
15 properly for electron dose assignment for skin,  
16 we feel the tool is handling that properly.

17 There was a footnote on page 9 of  
18 the SC&A memo that also identified a potential  
19 problem with what column the ring data was in.

20 Keith checked that out and did  
21 verify that that was an issue. In other words,  
22 a column where the ring dosimetry is placed,

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1       that column shifts through the years.

2                   And so he already has a tool fixed  
3       in place to address that issue.

4                   MR. BARTON:     Well, it sounds like  
5       there's a lot of kind of complex moving parts.

6                   MR. SMITH:    It is kind of complex,  
7       that is for sure.

8                   MR. BARTON:    I guess at the end of  
9       the day -- so it sounds like there was maybe a  
10      couple of fixes based on that column shift,  
11      which is really exactly what I had observed and  
12      thought was the original issue myself beyond  
13      this low energy photon problem.

14                   And it sounds like there's also a  
15      Visual Basic script being developed to kind of  
16      handle all the different complexities.    Okay.

17                   MR. SMITH:     As you go through our  
18      response, you'll see we kind of broke out the  
19      things from page 9 into four issue responses.  
20      And hopefully, we have addressed everything  
21      that was brought up in the memo.

22                   MR. BARTON:     Okay, well then I

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1 certainly look forward to reading it, and I  
2 think -- I mean if those tweaks are being made  
3 to the workbook. I think we can probably  
4 easily close that out at the next meeting. I'd  
5 like to take a look at that.

6 CHAIR KOTELCHUCK: Right. I think  
7 this should just be in progress, and then  
8 hopefully we'll be able to resolve it very  
9 quickly next meeting. But you have to have a  
10 chance to look at it.

11 So can we just say that this is in  
12 progress, and we will come back to it at the  
13 next meeting. Okay. Is that okay, folks?

14 MR. KATZ: No one's answering, but  
15 that should be okay.

16 MEMBER BEACH: While realizing that  
17 some of us can't answer.

18 CHAIR KOTELCHUCK: Pardon? That's  
19 right. Yes, thank you for so noting. That's  
20 right. And I meant to ask that question when  
21 we started referring to this.

22 Alright. We will deal with this at

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1 the next meeting. Are there anyone who can  
2 object who wishes to object? Hearing nothing,  
3 we'll --

4 MR. BARTON: Dr. Kotelchuck, if I  
5 could ask just one clarifying question?

6 CHAIR KOTELCHUCK: Yes.

7 MR. BARTON: Would the updates to  
8 the tool fall under the purview of this work?  
9 Or would ball then get kicked to the Hanford  
10 Work Group? I'm not sure.

11 CHAIR KOTELCHUCK: No, no, that is  
12 the question, whether it goes to Hanford or  
13 whether it goes to Procedures. But why don't  
14 we wait until you've had a chance to look it  
15 over, and also we'll look it over and be able  
16 to decide at that point.

17 MR. KATZ: It doesn't necessarily go  
18 anywhere beyond here.

19 CHAIR KOTELCHUCK: It doesn't have  
20 to. We may resolve it here. Right.

21 MS. GOGLIOTTI: Can I request that  
22 the updated tool be provided to us?

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1                   MR. SIEBERT:       Well, we actually  
2                   can't update the tool until we get resolution  
3                   with the result that is correct, if everybody  
4                   agrees that that's the way it should be  
5                   corrected and resolved.

6                   So yes, we'd be happy to do so, but  
7                   only after we all resolve it, and then we can  
8                   deliver it over.

9                   CHAIR KOTELCHUCK:    Right.    So we  
10                  should talk about this at the next meeting when  
11                  folks have had a chance to read the response.

12                  MR. SIEBERT:       For the court  
13                  reporter, that was Scott Siebert.  Sorry.

14                  CHAIR KOTELCHUCK:    Okay.  Alright.  
15                  It is nearing noon here, which is to say 9:00  
16                  on the West Coast, 9:00 a.m. on the West Coast.

17                  Do folks want to go on for a while?  
18                  We can certainly do that -- let's see, I guess  
19                  the Oak Ridge [case] would be the next.  The  
20                  Oak Ridge, I think, 458.1.  Was that the next  
21                  one on our list?  That we might be able to  
22                  resolve very quickly, at least according to my

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1 reading.

2 Would folks like to break now, or  
3 would folks like to go on for one more?

4 MEMBER BEACH: I'm good for one  
5 more, Dave.

6 MEMBER CLAWSON: I'm good for one  
7 more.

8 MEMBER RICHARDSON: Me too.

9 MR. SIEBERT: Can I be clear? 458,  
10 which set is that in, please?

11 MS. GOGLIOTTI: That would be in the  
12 19 through 21 set. This is the small  
13 intestine.

14 CHAIR KOTELCHUCK: Yes, that's  
15 right. 19 through 21.

16 MR. SIEBERT: Okay. Yes, that's  
17 fine. You're right, that one should go  
18 relatively quickly.

19 CHAIR KOTELCHUCK: I think it will.  
20 Okay, folks. Go ahead.

21 MS. GOGLIOTTI: Okay. So the  
22 history of this is that at the last meeting, we

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1 discussed the initial finding [that] had to do  
2 with applying the appropriate gender for lung  
3 dose.

4 Then we got into talking about  
5 whether or not OTIB-6 could be interpreted to  
6 recommend that the small intestine be assigned  
7 to lung dose as a surrogate or to ovary dose as  
8 a surrogate.

9 And NIOSH's position was that the  
10 lung was being consistently selected. And as a  
11 result of that the Board should just verify  
12 what they were saying was correct, [and] tasked  
13 us with doing a small study of claims that  
14 we've previously evaluated.

15 And we did -- we have evaluated two  
16 claims that were small intestine claims, but I  
17 didn't think that was a great sample, so I did  
18 search NOCTS and just selected a random sample  
19 of 10 other cases that specifically referenced  
20 the small intestine as the organ of interest.

21 So I didn't look at any suborgans,  
22 so if the duodenum was mentioned, for the

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1 duodenum I omitted those just so we would have  
2 consistency in what I was looking at.

3 And 458, of course, is the one, the  
4 case that we were talking about and 381 here,  
5 selected stomach.

6 And of my random sample, every  
7 single case selected the stomach.

8 And I was kind of surprised by that  
9 to be honest, because I couldn't find any  
10 reference that would suggest using the stomach  
11 would be appropriate for the medical surrogate  
12 organ.

13 And I did find OTIB-5, which  
14 references the ICD-9 code and what surrogate  
15 organs should be selected for internal and  
16 external dose. That does recommend using the  
17 stomach for small intestine. However, that  
18 reference specifically excludes use for X-ray  
19 doses. And I have that quote cited here.

20 And I did locate, at least one of my  
21 claims that I looked at, specifically  
22 referenced OTIB-5 as the reason that that

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1 surrogate medical organ was selected, which of  
2 course is precluded by that OTIB.

3 So in conclusion, I did find that  
4 the stomach or the lung was being consistently  
5 used as a surrogate organ for the small  
6 intestine medical dose.

7 And OTIB-6 recommends use of the  
8 lung as a surrogate for organs of the upper  
9 abdominal cavity such as the stomach. So those  
10 organs are treated identically by OTIB-6.

11 They are being consistently applied.  
12 However, I do have lasting concerns that OTIB-5  
13 is incorrectly being used to assign medical  
14 dose. And I would suggest a follow-up study  
15 concerning OTIB-5 results with OTIB-6 to make  
16 sure that was consistent.

17 CHAIR KOTELCHUCK: Okay.

18 MR. SIEBERT: And this is Scott. I  
19 can handle that. There's two pieces here. The  
20 number one is the technical issue, this  
21 specific case which I believe we all agree,  
22 this was done correctly.

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1 MS. GOGLIOTTI: Yes. Or at least  
2 was claimant-favorable.

3 MR. SIEBERT: It's a lung dose, so  
4 it was done correctly. So, I think from a --  
5 and this is obviously up to the Subcommittee --  
6 but from a closure point of view, this can be  
7 closed.

8 In follow-up action, I can just  
9 state that it's going to be up to NIOSH to  
10 direct ORAU whether to move forward on anything  
11 of the sort.

12 However, we've already started  
13 walking down that road just in case. And we  
14 agree that probably the documentation for  
15 clarification, we could probably do some  
16 documentation clarification. And I'm sure  
17 we'll be talking to Grady about that.

18 So that's pretty much where we are,  
19 that the wording can probably be clarified.  
20 And whether it's another document or whether a  
21 clarification in OTIB-6, our medical X-ray  
22 dosimetrist is looking into that, and we'll be

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1 talking to NIOSH about the direction to move  
2 forward or not.

3 CHAIR KOTELCHUCK: Okay. But it  
4 does appear to me that this is closable, and  
5 it's up to others to decide whether to assign  
6 new -- that it be checked further, the  
7 consistency be checked.

8 MEMBER MUNN: Doesn't that leave it  
9 in progress still?

10 MS. GOGLIOTTI: In this particular  
11 case, I think we've resolved the issue.

12 MEMBER MUNN: For this case.

13 CHAIR KOTELCHUCK: Yes.

14 MS. GOGLIOTTI: The last meeting, we  
15 did discuss closing this finding, but we  
16 decided to leave it open until the study was  
17 complete.

18 CHAIR KOTELCHUCK: Right. And it's  
19 completed.

20 MEMBER BEACH: Well, it sounds like  
21 NIOSH is going to take the appropriate steps  
22 and moving forward already, so I agree with

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1 closure on this.

2 CHAIR KOTELCHUCK: I'm certainly  
3 open.

4 MR. KATZ: I'm confused as to  
5 whether this is a finding or not.

6 CHAIR KOTELCHUCK: That's a good  
7 question.

8 MS. GOGLIOTTI: I would suggest,  
9 since that action was taken on the part of  
10 NIOSH, and they do feel that it warrants  
11 additional investigation or at least the  
12 recommendation -- I think it is a real finding.

13 MR. SIEBERT: And this is Scott. I  
14 would have a tendency to say, if something  
15 would be background documentation, so making an  
16 observation would be appropriate. But  
17 obviously it's up to you guys to decide.

18 MR. KATZ: So the organ selection  
19 was correct.

20 MR. SIEBERT: Yes.

21 MR. CALHOUN: At this point, we  
22 certainly believe that.

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1 MEMBER MUNN: For this claim.

2 CHAIR KOTELCHUCK: Right, for this  
3 claim. For this claim. I mean, the study, a  
4 lot of work has gone on following last meeting.

5 But in the end, that was -- the  
6 stomach lung was consistently used as a  
7 surrogate organ, which is what the question  
8 was.

9 So in a sense, I do think it's  
10 probably an observation.

11 MEMBER MUNN: It was correctly done.

12 CHAIR KOTELCHUCK: Do others want  
13 to?

14 MEMBER BEACH: I can agree with  
15 that, Dave.

16 CHAIR KOTELCHUCK: Okay. Alright.  
17 So we'll move this to an observation and accept  
18 it. Good.

19 And now it is noon, and it seems to  
20 me this is a good time for a lunch/breakfast  
21 break, depending on one's geographical  
22 position.

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1 So shall we get together at 1:00?

2 MR. KATZ: Sounds good.

3 CHAIR KOTELCHUCK: Okay, 1:00  
4 Eastern Daylight Time. Speak to you in an  
5 hour. Bye bye.

6 (Whereupon, the above-entitled  
7 matter went off the record at 12:02 p.m. and  
8 resumed at 1:02 p.m.)

9 MR. KATZ: Okay, Dave, it's all  
10 yours.

11 CHAIR KOTELCHUCK: Okay. We're  
12 going to finish up on the Westinghouse Nuclear  
13 Fuel Division 434. We had a lot of discussion  
14 about this last time. Hans and some of the  
15 NIOSH people had strong disagreements and asked  
16 Hans to write a memo, which he did.

17 And who would like to start for  
18 SC&A, Rose, Hans, whomever?

19 MS. GOGLIOTTI: Hans is going to  
20 start this off.

21 CHAIR KOTELCHUCK: Okay.

22 DR. H. BEHLING: Okay, I guess I'm

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1 going to be asking you for some guidance as to  
2 how much detail needs to be put into this.  
3 Because this is not a simple issue to discuss  
4 over the phone.

5 And I'm prepared to sort of give you  
6 pretty much a summary of what was contained in  
7 the White Paper that has been issued, and I'm  
8 hopefully aware of the fact that most of the  
9 people have read it. So I'm not sure how much  
10 detail you need to get at this point or simply  
11 maybe await NIOSH's response.

12 I really don't know what's the most  
13 appropriate approach here.

14 CHAIR KOTELCHUCK: Well, certainly  
15 we have read your letter. My own sense is that  
16 many of the issues raised here will have to be  
17 referred to the Procedures Subcommittee. I  
18 mean, there are a number of issues that  
19 certainly I as one Board Member do not feel  
20 competent to decide.

21 But I think what we should do is, if  
22 you would discuss in brief your letter, and

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1       you're correct to say we've all read it, and  
2       then get a response.

3                   And then see where we should go.

4                   MR. SIEBERT: This is Scott, and I'd  
5       just let you know, we have read it, and we're  
6       working on the written responses.

7                   We're pretty much in the same  
8       position SC&A was at the last meeting. We're  
9       almost there, but it's not in writing yet.

10                  So I can give verbal information as  
11       to where we are on all of them and what  
12       direction it's going, but the written will be  
13       coming relatively soon.

14                  CHAIR KOTELCHUCK: I think given  
15       this is a complex issue and a number of  
16       different facets are complex, it seems to me to  
17       make more sense for us to wait until you have a  
18       written response and then we can read that in  
19       the context of Hans's report, and then talk  
20       about it next time.

21                  I don't see a lot of point in  
22       discussing it here. Or put it this way, I

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1 don't think we can resolve things today.

2 What do other Subcommittee Members  
3 think?

4 MEMBER BEACH: Dave, this is Josie.  
5 There may be some clarifying questions that  
6 NIOSH has, and we could discuss those.

7 CHAIR KOTELCHUCK: That's certainly  
8 true.

9 MEMBER BEACH: And if there's not,  
10 then I agree with you.

11 MR. SIEBERT: This is Scott. I  
12 don't believe there's any actual questions  
13 we're going to have to get resolved. I think  
14 we can pretty much do the responses in the  
15 written response.

16 So from our point of view, I agree,  
17 it probably makes sense to go ahead and get  
18 those written responses in and have SC&A review  
19 them and get to the next meeting then.

20 CHAIR KOTELCHUCK: Right. Maybe a  
21 brief discussion, with the understanding that  
22 we're going to probably not resolve it until

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1 the next meeting.

2 But what Josie said certainly makes  
3 sense to me, that there may be things that we  
4 discuss that will clarify things for us on the  
5 Subcommittee and clarify things for the  
6 different points of view.

7 So why don't we go ahead and talk  
8 about it briefly.

9 DR. H. BEHLING: Okay. I'm going to  
10 at least hope that if there's one thing I can  
11 hope to achieve in this presentation, it's  
12 that, if there are any outstanding questions  
13 that some of the people may have, that I'm in a  
14 position to answer them as we go along here.

15 And hopefully as a result of maybe  
16 us receiving NIOSH's response, we can also  
17 therefore anticipate what we may have to say in  
18 the next meeting.

19 But let me at least take the time to  
20 at least provide you with a simple  
21 understanding of what the issues were that I  
22 identified in the White Paper and if anyone has

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1 questions, please do interrupt right away, and  
2 I can perhaps clarify the issue for not only  
3 the Working Group but anybody else, inclusive  
4 of NIOSH, as to what I intended to achieve  
5 here.

6 CHAIR KOTELCHUCK: Good.

7 DR. H. BEHLING: Okay. Just briefly  
8 again, the finding really pertains to an Energy  
9 employee who was at the Westinghouse Nuclear  
10 facilities during the time that includes the  
11 time period after the operational period, and  
12 there was obviously residual exposure.

13 And NIOSH has stated that -- or at  
14 least in my finding, I say that NIOSH has  
15 included unsupported methods for the  
16 determination of external doses during residual  
17 period, and more specifically, this finding  
18 cited the absence of information needed for  
19 SC&A to duplicate doses that were derived by  
20 NIOSH.

21 And for the reconstruction of dose,  
22 NIOSH employed information guidance that was

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1 contained in the templates -- and again this is  
2 somewhat different from the conventional  
3 findings that involve, obviously, more  
4 documented information than had previously been  
5 assessed by NIOSH. In the case of templates,  
6 we have not seen this before.

7 And because of this, the  
8 Westinghouse facility template, which has not  
9 been previously validated, was incorporated as  
10 part of the review of the ED dose  
11 reconstruction.

12 And so, let me briefly turn over and  
13 review some of the items identified in section  
14 3 of the SC&A's White Paper pertaining to this  
15 particular finding.

16 And if I can, Rose, ask you to put  
17 up slide number 1.

18 MS. GOGLIOTTI: That is on the  
19 screen already.

20 DR. H. BEHLING: Okay, okay. I'll  
21 have to actually look at Kathy's screen here to  
22 see.

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1           This is the slide that in summary  
2 provides the basic background information  
3 regarding what was the central issue here in  
4 this particular dose reconstruction that  
5 involved external doses during the residual  
6 period.

7           And I quoted in here the exact  
8 wording and the particular table that's the  
9 central part of this issue here.

10           And if you read the italics here, in  
11 this particular slide here, you will notice a  
12 couple of things.

13           Among the other things that I want  
14 to bring attention to is that this particular  
15 time period was part of a continuum that  
16 involved continuing operations that are not  
17 covered under EEOICPA.

18           And I point this out because later  
19 on we're going to talk about the issue that  
20 involves the absence of the cleanup and the use  
21 of a resuspension factor that I had considered  
22 inappropriate.

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1                   Again, I'll quote the residual  
2 exposure, so calculated based on contamination  
3 levels calculated below, and applying the dose  
4 conversion factors from Federal Guidance Report  
5 12 for contaminated surface and submersion.

6                   So what this really means is that we  
7 have information that was provided in this  
8 table here below, which for 1973, identifies a  
9 yearly photon dose of 32 millirem for the  
10 photon component or whole body component and a  
11 dose of 171 millirem for the skin dose from  
12 electrons.

13                   So let me just summarize. In  
14 summary, in behalf of these two numbers, that  
15 is the 32 millirem external whole body dose  
16 from photons and the electron dose of 171  
17 millirem per year cited in the table, NIOSH's  
18 explanation for these numbers is limited to the  
19 fact that we have an unspecified contamination  
20 level as we'll see and the application of EPA's  
21 dose conversion factors (DCF's) for contaminated  
22 surfaces and contaminated air submersion doses

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1 that are cited in Federal Guidance Report 12.

2 So that on the basis of that limited  
3 data, SC&A's previous inability to reproduce  
4 and validate the aforementioned photon-electron  
5 dose that prompted this particular finding must  
6 be viewed in context with the limited  
7 information that is provided in the template.

8 In other words, on the basis of that  
9 limited data, I was not able to duplicate these  
10 doses, and part of our charter in doing a  
11 review of a dose reconstruction that involved a  
12 template that had not previously been reviewed  
13 by SC&A, I was really not in a position to do  
14 so. So that is really the basis of our  
15 finding.

16 Let me quickly go on to slide 2  
17 here. This is data that was presented to us  
18 only on March 31 of this past year in terms of  
19 trying to clarify how these two numbers, that  
20 is the 32 millirem external photon and 171  
21 millirem per year for skin dose were derived.

22 And this particular slide 2 -- Rose

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1 -- this is figure 1. Figure 1 is slide 2.  
2 Okay.

3 And what I want to talk about [this]  
4 here. I clarified this is the actual  
5 spreadsheet, one of two spreadsheets that I  
6 received, and it contains the various columns.

7 On the top, I identified columns by  
8 1 through 10 on the upper right-hand side -- if  
9 Rose, you can point to those columns there, 1,  
10 2, 3, 4, 5 across the top.

11 And just briefly, and I will  
12 identify those columns that are important.

13 In column 1, NIOSH identified four  
14 different potential assertions that could  
15 possibly result in the external exposure. In  
16 natural thorium, however, it resulted in the  
17 highest deep dose and shallow dose among the  
18 four potential [assertions], and it's  
19 highlighted in yellow here.

20 Column 2 identifies the assigned  
21 surface contamination, and I'm going to make  
22 reference to this number repeatedly throughout

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1 the statements that follow here.

2 Assigned surface contamination level  
3 is 2.83 times 10 to the 6 dpm per square meter  
4 for the year, the starting year 1973. It's a  
5 number I will refer to again and again.

6 In column 3, an important criterion  
7 that I want to bring attention to is the  
8 assigned resuspension value of 1 [times] E to  
9 the minus 6 per meter was selected to derive  
10 the air contamination level that appears in  
11 column number 4.

12 And by means of that particular  
13 resuspension factor, the air contamination  
14 concentration was derived by means of that  
15 number in column 5, which obviously then  
16 defines -- actually, let's see here. Oh yes,  
17 okay, I forgot the same sentence here.

18 In column 4 the resuspension value  
19 that was previously found in column 3, 1 times  
20 10 to the minus 6 per meter times the 2.83  
21 times 10 to the 6 dpm per meter squared yields  
22 an air concentration of 2.83 dpm per cubic

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1 meter. And that is for the calculation of an  
2 air submersion dose.

3 And so on. The other ones are not  
4 that important. You can look at it. Column 5  
5 corresponds to effective DCF for the three  
6 isotopes that represent the natural thorium, as  
7 will be seen in the next figure for surface  
8 contamination. And column 6 corresponds to the  
9 combined effective DCF for the three isotopes  
10 representing natural thorium in figure 2 from  
11 Federal Guidance Number 12 for the submersion  
12 exposure.

13 So you have two types of doses,  
14 surface contamination external and of course  
15 the air submersion dose.

16 Column 7 represents the effective  
17 external dose that results from the  
18 contaminated surface. For example, the derived  
19 effective contaminant dose rate of 1.62 E to  
20 the minus 5 rem per hour is a product of  
21 columns 2 and 5. And so you end up with a  
22 value of 1.62 E to the minus 05 rem per hour.

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1           And column 8 represents effective  
2 external dose that results from immersion dose  
3 in contaminant air. Column 9, the work-hours  
4 per year with external exposure, is assumed to  
5 be 2,000. And column 10 is the final effective  
6 annual dose of 0.032 rem per year from the  
7 combined effective external dose from the  
8 surface contamination and the submersion dose.

9           So what I end up doing is  
10 demonstrating that, based on the information  
11 that was provided, I was able to reproduce the  
12 32 millirem per year from external photon dose  
13 and the 171 millirem shallow dose per year you  
14 see.

15           Also, shown below in the next row of  
16 data that is below the one that you see on top  
17 in figure 1, is a derivation of the shallow  
18 dose. As I said, that is 171 millirem per year  
19 or 0.17 rem per year, the value you see on the  
20 right-hand corner.

21           And it pretty much follows the same  
22 protocol. It uses guidance reported under 12

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1 and corresponds to the skin as a target tissue  
2 for the shallow dose.

3 In figure 2, and I will go to figure  
4 2 now. Figure 2 segregates the numbers that I  
5 showed you in figure 1 into the three isotopic  
6 components. In other words, natural thorium is  
7 thought to represent thorium-232, thorium-228,  
8 and radium-228 and provides a contribution of  
9 both the effective contamination dose as well as  
10 the effective submersion dose for each of the  
11 radionuclides.

12 And when you tally them up, they all  
13 combine, in the end yielding 32 millirem per  
14 year for external whole body and 171 millirem  
15 for the skin dose.

16 What you will see, however, is the  
17 assigned isotopic activity that is represented  
18 by the three radionuclides, thorium-232,  
19 thorium-228, and radium-228 in the upper right-  
20 hand corner is that these are thought to  
21 contribute the natural thorium based on isotopic  
22 fractions that represent 8.4 percent for

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1 thorium-228, 1.45 percent for thorium-232 and  
2 90.15 percent for the radium-222.

3 And this, however, is not -- these  
4 are not fractions that you would consider to  
5 represent natural thorium, but actually are more  
6 likely to thorium represent tailings.

7 For unprocessed natural thorium or  
8 for unprocessed, meaning natural thorium you  
9 would expect three radionuclides, thorium-232,  
10 thorium-228, and radium-222 to reasonably be in  
11 secular equilibrium.

12 And therefore, the numbers that you  
13 see here, that you see in terms of thorium-228  
14 that's 8.4 percent and 1.45 for thorium-232 and  
15 90.1 for radium-228 really should have, in  
16 essence, been represented by values of 0.333  
17 each if one were to assume secular equilibrium.  
18 So that is one of the things I wanted to point  
19 out which will come into play later on again.

20 Let me go and then quickly talk about  
21 -- based on the data that I received in behalf  
22 of these two spreadsheets, I identified a number

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1 of things that are concerns and uncertainties.

2 And in section 4.0 in my White Paper,  
3 I stated the following: While the data contain  
4 figures 1 and 2 allowed SC&A to duplicate  
5 NIOSH's derived external deep dose of 32  
6 millirem per year and shallow dose of 171  
7 millirem per year for the residual period, it  
8 does not imply a validation.

9 Embedded in the derivation of  
10 external dose, however, are three unexplained  
11 undocumented assumptions and two inconsistencies  
12 that require further clarification.

13 And let me cite them briefly what  
14 they are. The first is the undocumented surface  
15 activity. As I mentioned in figure 1, the  
16 starting point for the assessment of the actual  
17 dose was the assumed value of 2.83 times 10 to  
18 the 6 dpm per square meter.

19 This is a value that I don't know  
20 where it came from, but I will assume that it  
21 came from actual empirical data involving the 15  
22 SRDBs that were cited in the template.

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1                   However, we don't know how these  
2 numbers really represent each or all of these,  
3 or some of those SRDBs that are cited.

4                   So the first finding or issue that I  
5 wanted some clarification on is the undocumented  
6 surface activity, which is the basis for those  
7 two calculated values of 32 and 171 millirem  
8 each.

9                   The second one is the inappropriate  
10 value for a resuspension factor. As I pointed  
11 out previously for the derivation of the  
12 external submersion dose, NIOSH assigned a  
13 resuspension factor of 1 E to the minus 6 per  
14 meter.

15                   And NIOSH's assigned resuspension  
16 value of 1.0 E to the minus 6 per meter is not  
17 appropriate, according to what I believe it  
18 should be.

19                   It is also incompatible with the air  
20 assumptions that are assumed by NIOSH for the  
21 derivation of the inhalation internal dose that  
22 I'll discuss briefly here.

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1 Under the heading of residual  
2 external dose of the template, NIOSH states the  
3 following:

4 Though a monitoring program existed  
5 at the Westinghouse Nuclear Fuel Division during  
6 the residual period, continuing operations that  
7 are not covered under the EEOICPA also occurred.

8 This statement, to me, implies that  
9 there was no decontamination at the end of that  
10 operational period and continued work without  
11 any attempt to clean up any residual activity  
12 that would potentially affect people who would  
13 be exposed during the residual period.

14 So the use of the resuspension factor  
15 that is as low as 1 E to the minus 6 per meter  
16 is generally used only to validate a thorough  
17 and documented decontamination effort when a  
18 facility has been decommissioned and complies  
19 with the standards specified under AEC's  
20 Regulatory Guide 1.86, which has the following  
21 standards, limits for residual contamination in  
22 order for unrestricted use.

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1                   And at this point, I would ask Rose  
2                   to put up slide 4. Okay, you already have it up  
3                   there.

4                   What you see there in the left-hand  
5                   column is -- in the radionuclides, you'll see  
6                   natural thorium.

7                   And what you see there are three  
8                   values for average, maximum, and removal of  
9                   contamination limits identified in terms of dpm  
10                  per 100 square centimeters.

11                  And when you look at that value, and  
12                  I'll point to the average value, if you take 100  
13                  dpm for 100 centimeters squared, and you  
14                  standardize it to per meter squared, you end up  
15                  with 100,000 dpm per meter squared.

16                  Now, that is what the average value  
17                  should be, and I assume that the value of 2.83  
18                  times 10 to the 6 dpm per meter square that were  
19                  cited in figure 1, if you compare those two  
20                  values, you realize there is a twenty-fold  
21                  difference.

22                  And it's really a standard practice

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1 for the use of 1 E to the minus 6 as a  
2 resuspension value, and I think it was cited  
3 also in the document that NIOSH offered in OTIB-  
4 70 as a value that applies to that particular  
5 set.

6 You realize you can't use it if you  
7 consider that the average value should be  
8 instead of 2.83 times 10 to the 6, it is now  
9 reduced according to Reg Guide 1.86 to 100,000  
10 dpm or 28-fold lower.

11 And that's the reason I identified  
12 the 1 E to the minus 6 that were used for the  
13 resuspension value for the contamination and the  
14 submersion dose is to be perhaps an  
15 inappropriate value.

16 The next point that I wanted to talk  
17 about is the inconsistent resuspension-factor-  
18 derived air concentration has been not  
19 consistent with what follows on the issue of the  
20 air contamination as it applies to the  
21 inhalation dose that was also derived in the  
22 template.

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1                   When you look at the air  
2 concentration that NIOSH used for the  
3 calculation of external immersion dose to  
4 contaminated air, as I pointed out in figure 1,  
5 that turned out to be -- that value is 2.83 dpm  
6 per cubic meter of air that defines the  
7 submersion dose.

8                   But when you go to the actual  
9 template that talks about the issue of  
10 inhalation exposure, NIOSH derived a value of  
11 100 dpm per cubic meter for inhalation.

12                   So now you have obviously two air  
13 concentrations involving an individual who was  
14 simultaneously exposed to external air  
15 contamination in the submersion dose and also  
16 concurrently breathing in air that contained 28  
17 times higher dose of air contamination than  
18 assumed for inhalation as opposed to submersion.

19                   And that's an inconsistency. You  
20 cannot have two separate air concentrations, one  
21 for immersion dose and one for inhalation dose  
22 that vary by more than a factor of 28.

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1           And that value of 100 dpm per cubic  
2 meter was derived from a table that exists in  
3 the template where they talk about the  
4 inhalation of 9.65 dpm per day.

5           And of course when you standardize  
6 this to reduce it to what is in the air by  
7 accepting the fact that NIOSH assumed that 1.2  
8 cubic meter of air per hour times 8 hours, so  
9 9.6 divided by -- or take the 965 dpm per day  
10 inhalation and divide that by 9.6, which is the  
11 product of 1.2 cubic meters for air an hour  
12 times 8 hours, you end up with 100 dpm.

13           So again, we have an inconsistency  
14 here in terms of an air concentration that  
15 doesn't match when you talk about or compare the  
16 inhalation dose concentration to the immersion  
17 dose.

18           And lastly, I do want to talk about  
19 how this question of what this number  
20 represents. When NIOSH has identified 965 dpm  
21 per day as an inhalation, I assume this was  
22 again based on empirical data that comes from

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1 the 15 SRDBs that are cited on page 4 of the  
2 template.

3 And there is, however, no information  
4 available that would allow us to -- or me to  
5 assess whether or not this number is one that  
6 has a scientific merit or technical basis, and  
7 therefore, it needs clarification.

8 CHAIR KOTELCHUCK: Okay.

9 DR. H. BEHLING: And the last thing,  
10 I made some recommendations how we can resolve  
11 this, but I think we'll let that one go until we  
12 hear from NIOSH to see how each of those five  
13 issues are addressed in their response to SC&A.

14 CHAIR KOTELCHUCK: Yes. Thank you.

15 MR. SIEBERT: This is Scott.  
16 Actually, it's the recommendations that we  
17 address. So we'll hit those quickly and say  
18 what we're doing.

19 DR. H. BEHLING: Well, okay, then let  
20 me just quickly go through the recommendations.

21 CHAIR KOTELCHUCK: But we have them  
22 all.

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1 DR. H. BEHLING: Oh, okay.

2 CHAIR KOTELCHUCK: We have them in  
3 front of us.

4 DR. H. BEHLING: Okay.

5 MR. SIEBERT: I can state them  
6 briefly when I hit each one.

7 CHAIR KOTELCHUCK: Good.

8 MR. SIEBERT: Okay. Well, the first  
9 recommendation was providing information and  
10 data that validates the surface contamination  
11 level we used.

12 And this is the fact that when --  
13 this finding was initially an external finding.  
14 So when we gave the template and the backup  
15 documentation, it was all the external  
16 information because that's what the finding was  
17 on.

18 In hindsight, I guess it would have  
19 been better if I had given you all the internal  
20 information, too, because you were looking into  
21 that as well.

22 So what we're going to do is, we have

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1 all that information. We will post that with  
2 the next response.

3 You are correct. It comes right out  
4 of those SRDB documents, and we show how we  
5 calculated the 95th percentile and what that  
6 information is based on. So you'll see that in  
7 the response.

8 The second one is for the derivation  
9 of the external doses revised [by] the activity  
10 fractions for natural thorium.

11 And we did note this issue after the  
12 first version of methodology, and we had already  
13 changed it in 2014 to reflect natural thorium in  
14 that revision. So we'll be giving you the next  
15 version of it that demonstrates that we changed  
16 to natural thorium as well. So that one, we  
17 agree that that makes more sense, but we already  
18 made the change. So that's two.

19 Number three is the resuspension  
20 question. And in that update in 2014, we also  
21 updated the resuspension factor. I'm not  
22 prepared to go into specifics, but you'll see

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1 that information in the response as to what we  
2 used and where that came from.

3 And the final one is number four, the  
4 information data for the air concentration of  
5 100 dpm, which kicks over to the inhalation of  
6 just over 900 dpm per day.

7 It's the same thing. It's in the  
8 internal information which we'll post, and I  
9 probably should have posted the last time. So  
10 you'll see that as well, and you can go through  
11 those numbers. So that's what you're going to  
12 see.

13 CHAIR KOTELCHUCK: Very good.

14 DR. H. BEHLING: Okay, as I said, I  
15 did not really identify any of these issues as  
16 real findings other than the collective issues  
17 upfront that says we need clarification based on  
18 the limited data. And even after the two data  
19 sets were presented to us in the form of a  
20 spreadsheet, I was again -- I want to be clear,  
21 I was able to duplicate your numbers down to the  
22 last digit.

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1                   And on the other hand there were  
2 still obviously some residual concerns because I  
3 didn't know where the original  $2.83 \times 10$  to the  
4 6 dpm per square meter came from, nor did I have  
5 a full understanding of how the 965 dpm per day  
6 inhalation was derived.

7                   But I suspected that they were based  
8 on empirical data which I didn't have.

9                   CHAIR KOTELCHUCK: Okay. In a way,  
10 now, we're at the point that if there are  
11 questions from anyone, whether Subcommittee  
12 Members or staff folks on the phone, would  
13 people want to ask any questions or ask for  
14 clarification before we conclude and await the  
15 ORAU results?

16                   MEMBER MUNN: No, what I think I  
17 heard is most of the clarifications are going to  
18 be in the documents that we'll see coming from  
19 NIOSH.

20                   CHAIR KOTELCHUCK: That's right.

21                   MEMBER MUNN: I don't, except that visual  
22 is better than oral.

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1 CHAIR KOTELCHUCK: Agreed. Other  
2 folks want to input a question or comment?

3 MEMBER BEACH: None here, Dave.

4 CHAIR KOTELCHUCK: Okay.

5 MEMBER CLAWSON: None from me.

6 CHAIR KOTELCHUCK: Okay. Well,  
7 that's good. So we've summarized the issue.  
8 We've gone over it again, the issues. We await  
9 the response. And we will take this up at our  
10 next meeting.

11 DR. H. BEHLING: As far as I'm  
12 concerned, just about everything is likely to be  
13 resolved. And the only thing that I guess I  
14 wasn't sure what the numbers will be with the  
15 resuspension, but obviously there was at least a  
16 reference to a revised resuspension factor other  
17 than the  $1 \times E \text{ minus } .6$  that was used in the  
18 original document.

19 CHAIR KOTELCHUCK: Yes. So, I think  
20 with that we have covered as best we can the  
21 results in the expanded responses.

22 And I think we're ready to go on to

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1 the PRS.

2 MS. GOGLIOTTI: If I can suggest  
3 while we still have Hans on the line, if we  
4 finish off --

5 CHAIR KOTELCHUCK: Pardon me?

6 MS. GOGLIOTTI: If I can suggest  
7 while we still have Hans on the line, he has one  
8 more response for this Westinghouse case that  
9 might be appropriate to address now.

10 CHAIR KOTELCHUCK: Oh, yes. That  
11 sounds good. Thank you. Okay.

12 Is this other than 434?

13 MS. GOGLIOTTI: No, this is the same  
14 case.

15 CHAIR KOTELCHUCK: Okay.

16 DR. H. BEHLING: Yes, it's the same  
17 case. And this one should be very quick to  
18 resolve one way or the other.

19 When I reviewed that particular case  
20 I looked at the, obviously, all of the  
21 assignments of internal and external exposure.

22 And I came up with the notion that

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1 after we gave the CATI report that there was  
2 something of an inconsistency, and I think we  
3 can discuss it a little bit longer here after I  
4 make my comments here.

5 I realized that for external  
6 exposure, he was assigned an ambient dose. And  
7 yet when I read the CATI report, it was clear to  
8 me that in the CATI report, he clearly stated  
9 that he was exposed to external exposure and was  
10 monitored for external exposure because -- based  
11 on his particular job, which I won't discuss  
12 here.

13 But in his CATI report, he clearly  
14 recalls multiple things.

15 One, he wore his badge. Two,  
16 coworkers that he worked with also wore badges,  
17 and the frequency of badges worn he says [was]  
18 "always" and also remembers that the chest  
19 location was the choice of location that he wore  
20 his badge.

21 So it seems to me based on the CATI  
22 report that he had a firm understanding that he

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1 was once -- during this time period monitored.

2 Not so when he was asked whether or  
3 not he was monitored for internal exposure in  
4 the CATI report: Did you participate in the  
5 biological radiation monitoring program such as  
6 urine, fecal, breath, or in vivo whole body  
7 count? His answer was, I don't remember. I  
8 don't know.

9 So, when I looked at it, and I  
10 realized that for external exposure, where the  
11 CATI report suggests that the individual, the EE  
12 firmly remembers that he was monitored and yet  
13 there was no record of his exposure, of external  
14 exposure, and therefore NIOSH compelled to  
15 assign him an ambient dose as opposed to a  
16 surrogate dose or coworker dose.

17 At the same time, the EE clearly  
18 remembers or at least doesn't remember ever  
19 being monitored. And that's something that you  
20 would expect someone to remember if he has to  
21 submit a 24-hour urine sample, he was whole body  
22 counted, or he was assessed fecally. That's

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1 something we don't forget about, and yet he says  
2 he doesn't remember.

3 And yet under that circumstance,  
4 NIOSH assigned him a coworker dose, and that was  
5 probably a substantial dose as opposed to what  
6 he might have received under coworker external  
7 dose.

8 And I just cited it because, as part  
9 of our charter, when we do evaluate a dose  
10 reconstruction we always look for the CATI  
11 report to support everything that NIOSH does.

12 And yes, there are times when there  
13 are inconsistencies where someone doesn't  
14 remember, but perhaps out of reasons that  
15 involve being in a situation where you were  
16 willing to assess him even under questionable  
17 circumstances, somebody will assign a dose to  
18 that person even though there's no imperative  
19 reason to do so.

20 But in this case, I find it  
21 inconsistent where, in the form of external  
22 exposure situation where the EE identifies that

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1       there was no attempt to give him a coworker  
2       dose, and yet for the internal, the EE was given  
3       a coworker dose.

4               And I just mention this as an  
5       inconsistency. As I said, I don't disagree with  
6       NIOSH's attempt to identify any records that he  
7       might have had.

8               But the fact is, this is an  
9       inconsistency where in one case you've given the  
10      dose, and in the other one, you don't.

11              There's also still a remote  
12      possibility that, maybe -- I mean, after all,  
13      the operational time period was a very brief  
14      time, and maybe he wasn't exposed, and maybe he  
15      wasn't even monitored, but the records are  
16      simply not there.

17              Anyway, it was just an observation or  
18      a finding that identified in terms of the  
19      inconsistency.

20              And I can't tell you that there is a  
21      firm need for me to prevail on this issue. It's  
22      just an inconsistency I see, and NIOSH can

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1 respond however it deems.

2 CHAIR KOTELCHUCK: Well, what you're  
3 talking about is 434.2, which is on Other DCAS  
4 Sites on page -- just for the folks who are on  
5 the line, page 78.

6 And NIOSH responded to your concern  
7 that you indicated and looked for data quite  
8 extensively and didn't find any.

9 And there is a contradiction there.  
10 The question is, do we feel -- do folks on the  
11 Subcommittee, do we want to try to look into  
12 this? It is a different question than the ones  
13 we've been talking about.

14 Or should we leave it until we come  
15 back to the Westinghouse 434 case next time? I  
16 don't know how folks wish to proceed.

17 MR. SIEBERT: This is Scott. I can  
18 clarify a little bit if that would be helpful.

19 CHAIR KOTELCHUCK: Okay.

20 MR. SIEBERT: It's really two  
21 questions. Number one is the individual says  
22 they had external monitoring, and we did not

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1 find it.

2 As we said in our response back in  
3 April, we agree that the individual may have had  
4 external dosimetry. However, there is no record  
5 of any during the operational time frame.

6 One thing to really remember, we have  
7 the records from '71 and '72. That's the only  
8 operational time frame there is because that's  
9 the only time frame where they got fuel from the  
10 AEC.

11 So we specifically were looking for  
12 data when we did our data request of the site  
13 and all that information for the operational  
14 period. That's what we focused on.

15 So, the individual, I looked back,  
16 and the individual's employment was 32 years,  
17 from '59 to '91.

18 How do I say this? I wouldn't be  
19 surprised if this individual did wear badging  
20 sometime during that 30 years because [in the]  
21 nuclear fuel division, clearly they worked with  
22 fuels during that time frame.

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1                   However, we have good records of all  
2                   the badges during '71 and '72, and there is no  
3                   indication this individual had a badge during  
4                   that time frame.

5                   DR. H. BEHLING:       Okay, just and  
6                   again, I'm not trying to disagree with you other  
7                   than to tell you that I'm looking at the CATI  
8                   report, and it talks about this time period.

9                   He was employed there from 1963  
10                  through 1990. And at the same time also when he  
11                  talked about the frequency of badge worn, the  
12                  answer was always.

13                  And so that gave me the impression  
14                  that he would have likely been monitored not  
15                  only outside the operational time frame but also  
16                  for the year of '71 and '72 that he might have  
17                  also been thinking about having had a badge on.

18                  That was the only justification for  
19                  bringing this up. If there was no data, maybe  
20                  he's mistaken. There's no way we can be sure  
21                  which is the correct answer here.

22                  MR. SIEBERT:    And probably we could

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1 have explained this in the dose reconstruction  
2 report a little clearer so everybody understood  
3 that. So we can accept that.

4 The other thing is what's being  
5 stated as an inconsistency between external and  
6 internal. And really it's not because we did  
7 not assign coworker because there is no coworker  
8 during this residual period in an AWE.

9 But actually it's Westinghouse  
10 Nuclear Fuel. It is based on the information  
11 that we have from the site at the end of the  
12 operational period.

13 So what we assigned, both on the  
14 external and the internal side, and Mutty, feel  
15 free to correct me if I'm wrong here.

16 But what we assigned on both sides of  
17 the equation are the information we have for an  
18 unmonitored individual that we assume may have  
19 been in the area. So they would have gotten  
20 some external dose based on what was in the area  
21 at the end of the operational period and some  
22 internal based on resuspension of what was in

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1 the area at the end of the operational period.

2 So it actually is consistent. The  
3 reason it could seem inconsistent is the fact  
4 that if he had actual monitoring, we would have  
5 used that monitoring instead of the default  
6 monitoring that's based on the end of the  
7 operational period. That's the only difference.

8 MR. SHARFI: We only would have used  
9 the dosimetry during the operational period.

10 MR. SIEBERT: Correct.

11 MR. SHARFI: During the residual.  
12 Because there's continuing operation, residual  
13 external exposure would be --

14 CHAIR KOTELCHUCK: Because the work,  
15 the covered work, the work that was covered  
16 under our responsibilities went on only for a  
17 limited amount of time, is it possible that the  
18 Westinghouse Nuclear Fuel Division, which I  
19 assume still exists, or there's some --  
20 certainly, there's a Westinghouse company, can  
21 they -- let me ask it this way -- do we know  
22 that the person had a badge that was badged

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1 before and after this '71-'72 period?

2 We've been looking at '71-'72. Fine.  
3 And there's nothing there that we can find. Do  
4 we know, or is it possible to find out?

5 I assume he was badged. We all  
6 assume he was badged before and after, but is  
7 there -- do we know if he was badged before and  
8 after? Is that something we can reasonably seek  
9 out from Westinghouse?

10 MR. SHARFI: We have all the Eberline  
11 and Landauer reports for '70 and '71. We did  
12 not try to capture all these reports for all the  
13 years that were not applicable to the exposed --

14 CHAIR KOTELCHUCK: And I understand.  
15 That's reasonable. But in this case, we're a  
16 little bit -- I'm a little unsure, as we all  
17 are, about whether the lack of records for '71-  
18 '72 was just something missing in that person's,  
19 or whether that person was not badged before and  
20 after.

21 MR. SIEBERT: Dr. Kotelchuck, let me  
22 point out, this is not a site where we can

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1 request data from the site.

2 This is a site where we had to go out  
3 and go through records and pull the applicable  
4 records on a data search.

5 So we can't just do a phone call and  
6 say, for this individual, can you tell us if  
7 they ever had a badge. We don't have a  
8 mechanism for pulling that type of response.

9 CHAIR KOTELCHUCK: Okay. Alright.  
10 Thank you. I was just thinking that if they had  
11 badging before and after that we might -- it  
12 might infer something about whether the badging  
13 which was just missing for that one year or --  
14 whether the badging was missing or whether the  
15 person was not badged over a long period of  
16 time.

17 DR. H. BEHLING: In part also, I'm  
18 going back to the CATI report. I'm looking  
19 here, and the question that he answered  
20 affirmatively, he goes, did you conduct your  
21 work under special work permit, SWP, or  
22 radiation work permit, RWP? And he says, yes,

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1 under special work permit.

2 And I assume special work permit does  
3 require a radiation monitoring device.

4 CHAIR KOTELCHUCK: Oh, yes. I mean,  
5 there's no question there should have been  
6 monitoring. Was there?

7 But the answer is, we cannot find  
8 that out. That's not something we can just call  
9 Westinghouse.

10 DR. H. BEHLING: The only thing else,  
11 he does identify a coworker by the name of -- I  
12 won't name him.

13 CHAIR KOTELCHUCK: No names.

14 DR. H. BEHLING: No, I'm not going to  
15 name the name. But he includes a coworker by  
16 name and a telephone number, who as stated here,  
17 might be a witness of his, you know, in a  
18 radiation safety specialty, who can confirm and  
19 expand on the information he provided us.

20 I don't know who the person is, but  
21 he at least had the foresight of saying, you can  
22 call and talk to this person and confirm my

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1 statements as contained in the CATI report.

2 CHAIR KOTELCHUCK: Well, I don't  
3 know.

4 DR. H. BEHLING: Like I said, it may  
5 not be a major significant issue, and all I was  
6 concerned with, as part of our review, we always  
7 do look at the CATI report, and we do it very  
8 seriously to say, is the data contained in the  
9 dose reconstruction consistent with the  
10 information? And here was an obvious  
11 inconsistency where he was not -- was just a  
12 person who had dosimetry records on file and  
13 therefore that was a --

14 CHAIR KOTELCHUCK: Subcommittee  
15 Members, what do you suggest we do?

16 MEMBER MUNN: Well, a couple of  
17 comments. As to what we do, it's up to all of  
18 us I suppose.

19 But the fact that he may have had any  
20 number of TLDs or other types of radiation  
21 monitoring does not necessarily mean that this  
22 limited time period, in 1971 and '72 wasn't it,

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1 were those periods during which that was  
2 occurring.

3 The other thing I personally  
4 encountered is individuals who are not clear on  
5 the distinction between dosimeter badging and  
6 identification badging.

7 There's, in companies like  
8 Westinghouse, all of the employees who worked in  
9 those facilities were badged. They were not  
10 necessarily radiation monitor badges. And that  
11 is an easy error, I think, that -- as I said,  
12 I've encountered that on a couple of occasions  
13 where people believed they were being monitored  
14 when in fact they were being identified.

15 MEMBER BEACH: The only difference --  
16 sorry to interrupt.

17 CHAIR KOTELCHUCK: Go ahead. Please.

18 MEMBER BEACH: The only difference is  
19 that he seemed quite clear, and clear enough to  
20 identify someone to contact to vouch for and  
21 have another reference. So that leads me to  
22 believe he knew what he was talking about,

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1 potentially, in this instance.

2 So we're in a quandary here.

3 CHAIR KOTELCHUCK: We are.

4 MEMBER MUNN: But it's the timing  
5 area that is questionable. And as was pointed  
6 out, if you've had a whole body count, you would  
7 know the number always comes out to be one. For  
8 me, I never had more than one body counted at a  
9 time.

10 But it's a memorable experience. And  
11 I don't know anyone who's gone into that  
12 counting chamber and laid down and watched the  
13 cover above you that doesn't remember that.

14 CHAIR KOTELCHUCK: Can I ask someone,  
15 do we know that the person who the employee  
16 referenced was called? Or if not, should that  
17 person be called.

18 MR. CALHOUN: Dave, this is Grady.  
19 Generally, well, the standard question on the  
20 CATI we ask everybody if they can list  
21 coworkers. So it's not like he just listed this  
22 guy just out of the blue. So we ask that

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1 question of everybody. It's a standard  
2 question.

3 CHAIR KOTELCHUCK: Okay.

4 MR. CALHOUN: In all the time I've  
5 done this I think that we've only made that call  
6 -- I've only made that call once, and I bet it's  
7 been done less than a dozen times in the 15  
8 years of this program.

9 I think we have to look at everything  
10 in total before we make that call. And I'm not  
11 sure that would make a great deal of difference.

12 I don't know, at this point I think I  
13 would recommend more of just waiting for a  
14 response, a written response back from Scott and  
15 then you can do some other detailed look at  
16 things.

17 MR. SIEBERT: Grady, just to let you  
18 know. This is Scott. This already has a  
19 written response from the last one, and our  
20 response is no different. This is point 2.

21 MR. CALHOUN: That's right.

22 CHAIR KOTELCHUCK: I'll tell you

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1       what, then without a clear -- it's a tough one.  
2       It's hard to call.

3               We are clearly coming back to this  
4       case, and I -- if I may say, we're not getting  
5       anywhere quickly on this.

6               Why don't we, we're coming back to  
7       the case 434 next time, and let's include this.  
8       This may give us a chance, all of us, to think a  
9       little bit more about the issue for this, and  
10      also read more carefully and think about the  
11      response that we have in the RS at 434.2.

12              So let's go on and move ahead. Is  
13      that okay, folks, Subcommittee folks?

14              MEMBER BEACH: Is there any other  
15      work that can be done in these recommendations  
16      from SC&A on that?

17              DR. H. BEHLING: Well, as I said, I  
18      wouldn't necessarily be even concerned about it,  
19      but the PoC on this individual is relatively  
20      high without naming it. But it wouldn't take  
21      much to bring him up to the point where  
22      compensation would have to be considered, unless

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1 of course the assigned internal exposure would  
2 also be withdrawn as part of a more definitive  
3 dose assessment. I don't know.

4 CHAIR KOTELCHUCK: Well, I suggest  
5 let's hold this until the next time. Both of  
6 these.

7 MR. BARTON: This is Bob Barton.  
8 Could I ask a quick clarifying question? Is  
9 this a site where we don't have external  
10 dosimetry for anyone?

11 MR. SIEBERT: That's correct. We do  
12 have -- we have the Landauer and the Eberline  
13 reports since they were their vendors. We have  
14 all the reports during the time frame. So we  
15 have lots of external dosimetry from people who  
16 were actually monitored.

17 MR. BARTON: I mean, was an external  
18 coworker model looked at. This might be an  
19 application where that makes sense for a worker  
20 who maybe should have been monitored or maybe  
21 wasn't monitored or maybe was monitored and we  
22 don't have those records.

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1           I mean, if we do have data on other  
2 records, would that be something that either has  
3 been explored, or would it be worth exploring?

4           MR. CALHOUN: This is Grady again.  
5 One of the things that that shows is that if we  
6 do have like the records from everybody there,  
7 the likelihood that he was monitored is remote.

8           So now we're trying to -- are we  
9 trying to make an evaluation of, well, he was  
10 monitored, but somehow Landauer lost the  
11 records?

12           Or are now we trying to say he should  
13 have been monitored, and we need to do a  
14 coworker? Those are two different approaches I  
15 believe in my mind.

16           And if we believe we have relatively  
17 thorough records from other people who worked  
18 during that time and we don't have his, it's  
19 more of an indication that he wasn't monitored  
20 during that period than it was he was monitored  
21 and we don't have the records.

22           (Simultaneous speaking.)

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1 DR. H. BEHLING: Yes. Let me just  
2 make another comment. I wasn't complete in my  
3 comments regarding his coworkers he listed.

4 In addition to the one coworker for  
5 whom he listed a telephone number for contact,  
6 there were two other people -- actually no, yes,  
7 two other people here that he cites as people  
8 that you can contact for confirmation.

9 And it would be interesting just to  
10 run those three different names and see if there  
11 are any radiation exposure records on their  
12 behalf, whether they're claimants or not,  
13 doesn't matter.

14 But it would support the notion that  
15 he was in their company, and maybe they can shed  
16 a light on whether or not he is basically a  
17 person who was truly not monitored during the  
18 operational period, or maybe he was not.

19 But like I said everything here seems  
20 to suggest that there's an outside possibility  
21 that maybe he was monitored and the records are  
22 simply not there.

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1 CHAIR KOTELCHUCK: Well, that's  
2 something doable. Is that a major task, Grady?

3 MR. CALHOUN: I'm not going to commit  
4 to call him.

5 CHAIR KOTELCHUCK: No, no, not to  
6 call. To check the records.

7 MR. CALHOUN: I'll go back and look  
8 what we've got, but I'm not going to commit to  
9 calling any --

10 CHAIR KOTELCHUCK: Oh no, and I'm not  
11 asking you to commit that either to be clear. I  
12 just want to check the record. If you could  
13 check the records when we come back to it next  
14 time, that may be helpful.

15 MR. SIEBERT: This is Scott. I have  
16 a question then. What will that actually tell  
17 us? Because if his coworkers have data, that  
18 doesn't necessarily mean they were coworkers  
19 during the '71-'72 time frame.

20 And the flip side is, if they don't  
21 have data during that time frame, that doesn't -  
22 - I don't know what it really tells us.

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1                   We can pull the information. I'm  
2 just not sure what it really actually indicates  
3 to us.

4                   CHAIR KOTELCHUCK: Yes. I have to  
5 think about that. It certainly doesn't say --  
6 we're looking for inference as to what might  
7 have happened. We can speculate that he just  
8 didn't do -- not speculate, the absence of  
9 records suggests that he didn't do work in that  
10 period. But he reports it, and that's the  
11 dilemma.

12                   But folks, I propose we go on. This  
13 is one of many cases that we have to go over.  
14 So I propose that we come back to this next time  
15 and that we end this discussion now.

16                   And just go back and finish up sets  
17 14 through 18 as best we can in the time period  
18 we have left. We've covered good ground today,  
19 but let's go back to the BRS reports.

20                   It happens that we are in -- if we're  
21 looking at 434.2 or 434, we're in the Other DCAS  
22 Sites. And according to my records, there are

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1 two other cases in that file, and both of them  
2 are in progress, 436.2 and 369.3.

3 MS. GOGLIOTTI: There's also 435.

4 CHAIR KOTELCHUCK: Okay. I missed  
5 that, 435. Is that in progress?

6 MS. GOGLIOTTI: Yes, it's an  
7 observation.

8 CHAIR KOTELCHUCK: Okay. Well, can  
9 we -- I mean --

10 MS. GOGLIOTTI: Would you like to go  
11 through this matrix?

12 CHAIR KOTELCHUCK: Yes, exactly.  
13 It's just a few more things left. Two of them  
14 that we have are in progress, so I'm not sure  
15 unless there's a report now. Or we could look  
16 at 435. Well, let's go through the matrix.

17 MS. GOGLIOTTI: We can start with  
18 this one, and we'll just go down my list here.

19 CHAIR KOTELCHUCK: Okay.

20 MS. GOGLIOTTI: We have the W.R.  
21 Grace case, 369.3. And the finding states that  
22 NIOSH did not consider Pu intakes for 1969

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1 through '70.

2 And we last left it that NIOSH was  
3 considering exploring Pu coworker dose during  
4 the operational period. Has any progress been  
5 made on that?

6 CHAIR KOTELCHUCK: Okay, I found it.  
7 I'm sorry. I was looking. Have other people --  
8 I don't have the screen that other people have,  
9 so 369.3.

10 MR. SIEBERT: This is Scott. We're  
11 in the midst of working through a coworker study  
12 during that time frame, so this is something  
13 that is going to be ongoing for quite a while.

14 CHAIR KOTELCHUCK: Okay. So that is  
15 in progress, and that's where we appropriately  
16 will leave it. Okay, good.

17 MS. GOGLIOTTI: Okay. There's also  
18 another one on the Westinghouse case that we  
19 pretty much have resolved.

20 CHAIR KOTELCHUCK: Okay.

21 MS. GOGLIOTTI: 434.4. The finding  
22 states that activity ratios used for Pu were ---

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1 (Simultaneous speaking.)

2 CHAIR KOTELCHUCK: Oh, yes.

3 MS. GOGLIOTTI: And we did come to a  
4 resolution. However, Brad had a remaining  
5 concern --

6 CHAIR KOTELCHUCK: Correct.

7 MS. GOGLIOTTI: -- that was not  
8 addressed at the last meeting.

9 CHAIR KOTELCHUCK: Correct. And do  
10 we have a response from Brad on that?

11 MS. GOGLIOTTI: There is no response  
12 here.

13 It looks like he was concerned with  
14 whether or not the practice was a standard  
15 practice or if this was an isolated instance.

16 CHAIR KOTELCHUCK: Right.

17 MR. SIEBERT: I apologize. I always  
18 look at the most recent response, and the most  
19 recent response was talking about closure. So  
20 let me look for a second here.

21 CHAIR KOTELCHUCK: Okay. Sure, go  
22 ahead.

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1 MS. GOGLIOTTI: Do you just want to  
2 move on and we can come back to it?

3 CHAIR KOTELCHUCK: Alright. Sure.  
4 Go ahead Grady.

5 MR. CALHOUN: What?

6 MR. SIEBERT: This is Scott.

7 CHAIR KOTELCHUCK: Oh, I'm sorry  
8 Scott. Excuse me.

9 MR. SIEBERT: What practice is  
10 standard? What's being asked here?

11 MS. GOGLIOTTI: You'd have to go back  
12 to the matrix at this point. Depending on which  
13 version of the matrix you're looking at, it's  
14 either on page 42 or 45.

15 MR. SIEBERT: Because what the  
16 discussion is is plutonium-241 being listed as  
17 alpha when it's really a beta. Is that the  
18 issue itself?

19 MS. GOGLIOTTI: I think it was beyond  
20 that. This is the discussion we had back in,  
21 looks like January or November.

22 CHAIR KOTELCHUCK: 9/11/2015. I have

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1 it in the BRS.

2 MEMBER BEACH: You might have to go  
3 back to the transcript and read it.

4 CHAIR KOTELCHUCK: Yes. Okay, we  
5 could do that.

6 MR. BARTON: If I might, I was just  
7 looking through my notes from January, and it  
8 looked like the isolated incident was whether  
9 you use ambient intakes as opposed to coworker  
10 intakes. That's what I have written down as the  
11 concern about whether this was an isolated  
12 incident or something pretty common. For this  
13 particular site, that is.

14 CHAIR KOTELCHUCK: Yes. Thanks, Bob.

15 MR. SIEBERT: If that's the question  
16 then that is easily answered actually. We've  
17 already discussed it.

18 There is no such thing as coworker or  
19 ambient during residual time frame. There is --  
20 as we discussed in the previous response, there  
21 is only if the person was monitored during the  
22 operational period, which this individual was

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1 not, or we can assign the residual external and  
2 internal components, which are based on the end  
3 of the operational period and settling and  
4 resuspension and so on and so forth both from an  
5 internal and external point of view.

6 So that is how we deal with it at  
7 this site. There's no inconsistency there.

8 Brad, does that help you after what  
9 we talked about a little earlier?

10 MEMBER CLAWSON: To tell you the  
11 truth, I'd have to go back and read what the  
12 discussion was. But we'll take a look at it. I  
13 don't think it's a showstopper in any way. I  
14 was just trying to figure out if this was a  
15 normal practice that we did with this.

16 I think I'm okay with it myself.

17 MR. SIEBERT: I can just tell you  
18 that what we did is what we normally do. So the  
19 answer is yes.

20 CHAIR KOTELCHUCK: And that was  
21 recommended for closure once a response was  
22 gotten, which we now have.

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1                   MEMBER CLAWSON:    We have it, and I  
2                   don't have a problem with it.

3                   CHAIR KOTELCHUCK:    Okay.    So let's  
4                   close on 434.4.

5                   MEMBER BEACH:    Agreed.

6                   CHAIR KOTELCHUCK:    Okay, good.

7                   MS. GOGLIOTTI:    The next one we have  
8                   here is a Brookhaven National Lab case.    And  
9                   that is tab 435.    Are you there?

10                  CHAIR KOTELCHUCK:    Yes.

11                  MR. KATZ:    Just before, going back,  
12                  since it's been so long and I couldn't read what  
13                  was above about closure.    So are we closing a  
14                  finding where SC&A had a finding and we agreed  
15                  that it's correct or not?    I don't know what the  
16                  actual outcome is there.

17                  CHAIR KOTELCHUCK:    Let me go back.

18                  MR. KATZ:    Rose can tell us.    What  
19                  did we close on?

20                  MS. GOGLIOTTI:    Hans had some  
21                  remaining concerns about one of the tables I  
22                  believe.    And once we have NIOSH's additional

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1 information, that can provide --

2 CHAIR KOTELCHUCK: Well, I'm looking  
3 at BRS. NIOSH has since corrected the 239/240  
4 issue as discussed on page 45 of our January  
5 transcript. SC&A recommends closure once B.  
6 Clawson's concern is addressed. And it is.

7 MEMBER CLAWSON: And it's been  
8 addressed.

9 MR. KATZ: I understand that. But  
10 the actual finding, not Brad's observation or  
11 concern, but the actual finding was there was  
12 some error in the table, and those have been  
13 corrected.

14 CHAIR KOTELCHUCK: Right.

15 MR. KATZ: This is the same case that  
16 was corrected earlier, that came up in our  
17 discussion.

18 CHAIR KOTELCHUCK: We discussed in a  
19 different context. And actually, this is really  
20 an observation. Delete the word alpha in row 4  
21 of Table 4, acknowledge the activity ratio.

22 These recommendations are for the

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1 report. So this 434.4 is, I believe, an  
2 observation.

3 MR. KATZ: Okay.

4 MR. BARTON: And I can again say from  
5 January, what I have here is that it was a  
6 discussion about plutonium.

7 A response from Scott was, we've  
8 updated the template since that time frame and  
9 we've actually added the Pu-238/240 to respond  
10 to this portion of the finding. So that's what  
11 I have for 434.4.

12 CHAIR KOTELCHUCK: Yes. That sounds  
13 like an observation to me. So, can we call this  
14 an observation and close it? Or accept it?

15 MEMBER MUNN: Yes.

16 CHAIR KOTELCHUCK: Okay. Good. Do  
17 we have any more on this file, Other DCAS Sites?

18 MS. GOGLIOTTI: Yes. There is 435,  
19 observation 1.

20 CHAIR KOTELCHUCK: Okay.

21 MS. GOGLIOTTI: And this one we've  
22 been carrying for some time. We were unable to

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1 replicate the results from their tech-99m  
2 results because they used a different version of  
3 IMBA than we have. And they were looking into  
4 it at the last meeting.

5 CHAIR KOTELCHUCK: Okay.

6 MS. GOGLIOTTI: Into getting us the  
7 most current version of the IMBA software so  
8 we're properly able to evaluate their results.

9 MR. CALHOUN: I'll go get an update  
10 on that again, but I think that we've had a real  
11 hard difficulty ourselves with that one.

12 CHAIR KOTELCHUCK: 434.

13 MEMBER MUNN: I thought we finally  
14 resolved that issue of different copies of IMBA.  
15 No, we didn't?

16 MS. GOGLIOTTI: No, we've been  
17 working on it for at least a year I believe.

18 MEMBER MUNN: Longer than that.

19 MS. GOGLIOTTI: It might be two years  
20 now. I don't know.

21 MEMBER MUNN: It seems like forever.  
22 It keeps coming up so many places.

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1 CHAIR KOTELCHUCK: Yes. I'm having  
2 trouble finding it in the file. Someone who is  
3 on the BRS file, what page is it?

4 MR. BARTON: That's 435, observation  
5 1.

6 CHAIR KOTELCHUCK: I've got it.  
7 Okay, thank you. I had the wrong number. Well,  
8 NIOSH will investigate status. And that status  
9 has not been investigated. That is to say -- or  
10 the conclusions, there's not a conclusion on  
11 that, right?

12 MS. GOGLIOTTI: Correct. It still  
13 has not been resolved.

14 CHAIR KOTELCHUCK: Well, then we'll  
15 have to keep it in progress. It is in progress.  
16 Somebody has to try to resolve that.

17 MS. GOGLIOTTI: And then there's one  
18 more left in the matrix.

19 CHAIR KOTELCHUCK: 436.2, perhaps?

20 MS. GOGLIOTTI: Correct.

21 CHAIR KOTELCHUCK: Good.

22 MR. BARTON: Rose, I think this is

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1 one of mine, right?

2 MS. GOGLIOTTI: I believe so.

3 MR. BARTON: 436, let's see what we  
4 have here. Okay, yes, this was one of mine.

5 Alright, so essentially what happened  
6 with this case is you had a health physics  
7 worker, I don't want to get into it too much,  
8 but they were working in a place where shallow  
9 doses through beta radiation was possible.

10 And so when we were doing the review,  
11 we noticed that the application of missed  
12 shallow doses was applied for one half of one  
13 badging period. So essentially, usually when  
14 you apply a missed dose, it's one half of the  
15 limit of detection. You apply that. In this  
16 case it was essentially one quarter of the limit  
17 of detection. And then no more missed dose was  
18 applied for this individual worker, which  
19 certainly got us scratching our heads.

20 I don't think we talked about this at  
21 the last meeting. I think it was probably the  
22 meeting before that, and we got the verbal

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1 explanation, and that admittedly made my head  
2 spin.

3 So what happened at that meeting is I  
4 requested that NIOSH put that in writing, so  
5 they're hopefully going to look at that and sort  
6 of get where that's going. Because obviously,  
7 it's kind of a strange thing to think about,  
8 that you could be applying a missed dose to only  
9 one half of one badging period, which in this  
10 case is a month.

11 So we got that written response, and  
12 we looked it over. I feel a little bit better  
13 about it but not much. I'm still rather  
14 confused about it.

15 And I think the problem is -- I think  
16 I understand the spirit of what the procedure is  
17 for figuring out these missed badging cycles and  
18 how it's possible that you could get one half of  
19 a badging cycle applied.

20 But I guess for my own -- I certainly  
21 would feel better about it if the response sort  
22 of kind of went into the actual case and put

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1 numbers.

2 As in, we're looking at this quarter.  
3 This is the total reported dose. This is how we  
4 parse it out to the different assumed badging  
5 periods.

6 You have to remember in this case and  
7 for this particular site, the workers were on a  
8 monthly schedule, exchange schedule, but the  
9 records we have only report the totals on a  
10 quarterly basis.

11 So you kind of have to take those  
12 measured results and assume they were in certain  
13 months during that quarter for the purposes of  
14 calculating what the missed dose is going to be.  
15 In this case, it's a best estimate missed dose.

16 And one of the references NIOSH  
17 provided which was helpful was PROC 6, which the  
18 very last page of that has an example of how you  
19 do it for deep doses. But then there's this  
20 added wrinkle. We're talking about shallow  
21 doses here.

22 So I guess at this point I would

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1 recommend either one of two courses of action.  
2 Either we could certainly turn it over to NIOSH,  
3 and they can kind of explain how this process  
4 works. Again, I found it still a little bit  
5 confusing. What I would prefer is if NIOSH is  
6 amenable, they could go in and say listen, we're  
7 going to show you the hand calculations. Here's  
8 the actual number from the dosimetry file. This  
9 is how we parse it out. This is how we assume  
10 which doses, which missed doses are for deep,  
11 and this is why the resulting is left for  
12 shallow.

13 And I'll give you just one example of  
14 why I'm a little bit confused. The badging  
15 cycle that was on a quarter rather where the one  
16 half of one missed dose was applied, all we know  
17 really is that the total deep dose was 1.05 rem.

18 And then I looked in the following  
19 year, and there's another quarter of a deep dose  
20 is 1 rem. So essentially a difference of 50  
21 millirem.

22 And I just couldn't quite resolve

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1       that in my mind why that badging period was  
2       different. And so again, this would sort of be  
3       like a back of the envelope type calculation.  
4       You know, like one of those Part II health  
5       physics questions where you kind of state your  
6       assumptions and it's a little bit like a  
7       storyline, just so we can kind of get from point  
8       A, which is sort of the guidance on how you're  
9       supposed to be calculating these things, and  
10      then point B, to actually see how you get from  
11      that guidance, using the actual numbers for this  
12      case to kind of resolve it.

13                 At least that would certainly put my  
14      mind at rest. And again, I don't think it would  
15      take a great deal of effort. And it might also  
16      help out Members of the Subcommittee to see that  
17      in sort of a step by step process.

18                 Because again, it's a bizarre thing  
19      to think about that you could be applying one  
20      half of a missed dose, not one half of the limit  
21      of detection but one half of a badging cycle  
22      missed dose, so essentially one quarter of a

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1 limit of detection.

2 MR. SIEBERT: This is Scott. Yes, I  
3 agree. It's always struck me as a little odd,  
4 too, but when it's a best estimate, it kind of  
5 makes sense.

6 Yes, the expanded responses that we  
7 gave in March, actually there's two different  
8 documents. There's one that discusses the steps  
9 involved, the document, the Word document, and  
10 gives the specifics for the claim in question,  
11 discussing fourth quarter of '68.

12 And then there's an Excel spreadsheet  
13 that shows the columns and how the pieces all  
14 fit together.

15 I'm not sure how much more specific  
16 we can get.

17 MR. BARTON: I guess what I had  
18 envisioned is literally a written piece of  
19 paper. Look, here's what exactly we're seeing  
20 in the file, for example, dose totals for this  
21 quarter and dose totals for this quarter.

22 And here is how we're going to break

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1 this up. This is how we're going to break up  
2 the deep dose.

3 And actually, I do have a question.

4 MR. SIEBERT: That's what's in the  
5 document we gave though. I mean, I'm reading  
6 it. It says 1968, there are two positive deep  
7 dose dosimeters based on dose limits and only  
8 one positive for shallow dose, which means  
9 there's one zero dosimeter reading for deep dose  
10 since there are three dosimeters within the  
11 quarter, and give example 3 minus 2 equals 1 and  
12 two for shallow.

13 I mean, we did the step by step in  
14 this document. This is what I'm saying. I'm  
15 not sure how much more specific we can get.

16 MR. BARTON: I see the step by step.  
17 It doesn't actually refer directly to the  
18 reported doses. And I gave that one example  
19 where the quarter that we're talking about, the  
20 total dose is 1.05 rem, and that's when we  
21 assign that missed shallow dose.

22 And then in the very next year,

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1       there's another quarter that has 1 rem, so  
2       essentially 50 millirem less. And then there's  
3       no shallow dose assigned.

4               And so I guess the devil is kind of  
5       in the details, and it's that somehow that extra  
6       50 millirem --

7               MR. SIEBERT:    You're talking about  
8       the difference between '68 and '69, right?

9               MR. BARTON:    Yes.

10              MR. SIEBERT:    Okay. And we actually  
11       discussed that. We went through the steps for  
12       '68, and then for '69, it says note that for '69  
13       and '70, the number of positive dosimeters based  
14       on the LODM dose limits are equal for deep and  
15       shallow dose.

16              As specified earlier we can only  
17       assign shallow dose when the number of zero  
18       shallow dosimeter readings exceeds the number of  
19       zero deep dosimeter readings. Since they're  
20       equal, it doesn't exceed it.

21              Like I said, I'm not sure how much  
22       more specific we can be here. I don't know how

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1 to write it up much more clearly.

2 MR. BARTON: Well, I guess perhaps  
3 then maybe I need to take a closer look at that  
4 and maybe get some other SC&A folks who --  
5 again, I just, looking at it and trying to parse  
6 it out, I wasn't entirely comfortable that I  
7 understood enough to sign off on it in this  
8 context.

9 But while we're talking about this  
10 issue one of the earlier responses, in fact I  
11 think it was the first response, it states that  
12 for this site, the shallow dose was only  
13 reported if it was greater than the deep dose.  
14 Is that correct?

15 MR. SIEBERT: I believe that is  
16 correct. I'd have to look at it.

17 CHAIR KOTELCHUCK: I believe so.

18 MR. SIEBERT: That is correct.

19 MR. BARTON: So we can assume that a  
20 shallow dose equal to the reported deep dose was  
21 applied to all skin cancers? Because a shallow  
22 dose is only reported if it's actually greater

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1 than the deep dose. That kind of infers that  
2 the shallow dose is either somewhere between  
3 zero and whatever was reported for the deep  
4 dose.

5 MR. SIEBERT: Okay, I think what  
6 we're going to need here to get this moving  
7 forward is, Bob, if you could write up your very  
8 specific questions so that we can then address  
9 them piece by piece so we can walk through it.  
10 That may save us some time here and hopefully we  
11 can describe it to your satisfaction, answering  
12 specific questions.

13 Would that be workable?

14 MR. BARTON: Yes, I'd be happy to do  
15 that. Again, I just wasn't quite comfortable  
16 enough, in seeing the response and looking at  
17 the actual dose values, to be able to sign off  
18 on it from what I've heard without reading up on  
19 it.

20 CHAIR KOTELCHUCK: That sounds like a  
21 reasonable resolution. It is in progress now,  
22 so it will remain so until next time, and

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1 hopefully folks will find it to resolve and make  
2 a recommendation to the Subcommittee.

3            Alright. That as I see finishes all  
4 the items on the file, Other DCAS Sites,  
5 correct?

6            MS. GOGLIOTTI: Correct.

7            CHAIR KOTELCHUCK: I see in the other  
8 files, the SRS and Hanford have only two  
9 outstanding issues.

10           MS. GOGLIOTTI: Yes.

11           CHAIR KOTELCHUCK: Both of them are  
12 awaiting Working Group actions from SRS.

13           MS. GOGLIOTTI: Correct.

14           CHAIR KOTELCHUCK: Therefore there's  
15 nothing to pursue in that file for us to finish  
16 Sets 14 through 18. INL and NPS also, 383.8, in  
17 progress, awaits report from INL Working Group.

18           So we have the remaining ones on the  
19 AWE file, in addition -- beyond Bethlehem Steel  
20 and BONUS. We have four or five. Right? Shall  
21 we start on that, then?

22           MS. GOGLIOTTI: Let me get that

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1 pulled up.

2 CHAIR KOTELCHUCK: Okay. The first  
3 one I noted in the BRS was 430.2, Electro Metal.

4 MS. GOGLIOTTI: Yes.

5 CHAIR KOTELCHUCK: Okay. And then  
6 we'll go on for a little while now and then  
7 we'll take a short comfort break. But we can go  
8 on.

9 MR. SIEBERT: I apologize. This is  
10 Scott. Which set are we in now?

11 CHAIR KOTELCHUCK: We're going back  
12 to AWE and Sets 14-18.

13 MR. SIEBERT: Gotcha, thank you.

14 MS. GOGLIOTTI: Okay, this is finding  
15 430.2 and it's an Electro Metal case. The  
16 finding states that there was a failure to  
17 acknowledge the recollection by one of the  
18 claimants of a specific type of cancer that was  
19 reported in the CATI report. And that's on the  
20 screen, but I don't want to give away too much  
21 PI information.

22 The claim was done with a different

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1 trunk cancer and this particular claimant had a  
2 better recollection, or thought that they had a  
3 better recollection, of more information about  
4 the cancer.

5 At the time that we did the dose  
6 reconstruction this was a flag for us. And so  
7 when we were doing our one-on-ones the Board  
8 Members felt it was important to bring it to the  
9 attention of DOL. So we did send to DOL an  
10 email regarding this case.

11 And DOL did respond. We notified  
12 them in November of 2013 and they got back to us  
13 on November 25th of 2013. And the medical  
14 officer determined that there was no specific  
15 location noted in the autopsy report and there  
16 was no biopsy or pathology report associated  
17 with this particular cancer. And the physician  
18 that attended this case has since deceased. So  
19 they couldn't make a more positive  
20 identification than the cancer that was used.

21 This case was since reworked under  
22 PER-68 and did result in compensation. And so

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1 with that we would recommend closure.

2 CHAIR KOTELCHUCK: Yes.

3 Recommendation of closure.

4 MEMBER MUNN: Yes.

5 CHAIR KOTELCHUCK: Any concerns,  
6 Subcommittee?

7 MEMBER MUNN: Not here.

8 CHAIR KOTELCHUCK: Okay. Then we can  
9 close that.

10 MS. GOGLIOTTI: Okay. The next one  
11 is 432.1 and that's a uranium mill in Monticello  
12 case.

13 Okay, this one, the finding  
14 essentially had to do with NIOSH followed their  
15 procedure, and we do not disagree with that.  
16 However, the approach that was used seemed to be  
17 more or less overestimating for the brain. And  
18 our reviewer thought that that was inappropriate  
19 based on a compensated case.

20 We talked about this extensively  
21 before and John was asked to write up a  
22 response, which he did. And I can read that

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1 here for you.

2 "The basis for this finding is the  
3 possibility that a surrogate ICD-9 organs listed  
4 in OTIB-005 and the associated dose conversion  
5 factors for the external exposure to residual  
6 organs as provided in Appendix A of IG-001,  
7 which includes the brain, raises a concern about  
8 the approach that might overestimate dose to the  
9 brain which is shielded by the skull. Such an  
10 approach could be considered reasonable but is  
11 likely an overestimate to the dose to the brain  
12 due to the shielding provided by the skull.

13 "SC&A does not question that NIOSH  
14 followed their procedures, but in this instance  
15 the claimant-favorability of the assumptions  
16 leads to an overestimate in an uncompensated  
17 case.

18 "However, since this case was  
19 compensated, a more realistic estimate that  
20 includes the derivation of the dose specifically  
21 to the brain might be a subject that the Work  
22 Group might like to explore."

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1 CHAIR KOTELCHUCK: This was an  
2 overestimate.

3 MS. GOGLIOTTI: In this particular  
4 instance, John felt this was an overestimate to  
5 the brain. And the case was compensated. And  
6 as you're aware, technically you're not supposed  
7 to use overestimating assumptions in  
8 compensation --

9 CHAIR KOTELCHUCK: That's correct.  
10 The uranium mill, this was not an SEC, was it?  
11 No.

12 MS. GOGLIOTTI: I do not believe  
13 there's an SEC associated with this site.  
14 Someone can correct me if I'm wrong.

15 CHAIR KOTELCHUCK: So it was an  
16 overestimate that led to a compensation in a  
17 non-SEC case?

18 MR. KATZ: It doesn't really matter  
19 whether it was SEC or not.

20 CHAIR KOTELCHUCK: Yeah. I mean, it  
21 was compensated, so that's resolved. The  
22 question is, was that proper procedure?

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1 MS. GOGLIOTTI: NIOSH followed their  
2 procedures.

3 MEMBER MUNN: It's proper procedure.  
4 The question is whether or not we wanted to  
5 consider the fact that a procedure results in a  
6 potential overestimate for exposure to the  
7 brain. I'm not at all sure that we're qualified  
8 to undertake that kind of consideration.

9 MS. GOGLIOTTI: I would say certainly  
10 it's more detailed than the Dose Reconstruction  
11 Subcommittee usually would pick up. However,  
12 whether or not we wanted to refer that to the  
13 Procedures Subcommittee I think would be the  
14 overall question.

15 CHAIR KOTELCHUCK: Right.

16 MR. KATZ: Does NIOSH have a response  
17 to this as to whether this whole issue of  
18 overestimate?

19 MS. GOGLIOTTI: They did not respond  
20 in the BRS.

21 MR. KATZ: I know, but do they have a  
22 response now?

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1                   MR. CALHOUN:     This is Grady.     You  
2     know, I'm looking through this DR here, and we  
3     don't have a specific dose model, at least at  
4     the time then.     I don't think we do.     You have  
5     to calculate the dose directly to the brain.     So  
6     we've got to use something else that's close to  
7     that organ.

8                   MS. GOGLIOTTI:    Yes, and --

9                   MR. CALHOUN:     So unless we -- and  
10    now, with the new ICRP 116, I don't know if  
11    there's a model for the brain in that or not.  
12    But that's something that we're working through,  
13    because a lot of the DCFs have changed for many,  
14    many organs.

15                   But there's not one that exists.    So  
16    I don't know what the question is.     Is the  
17    question that we need to make one that doesn't  
18    exist, or to make up a new one and not use one  
19    that does exist that we think is reasonable?    I  
20    don't know what the question here is.

21                   MR. KATZ:     So, Grady, this is -- I  
22    mean, in our regs, this is not a problem.    We do

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1 not have any prohibition against overestimating  
2 when -- using an overestimate when it's the best  
3 estimate that's available --

4 MR. CALHOUN: Well, here's the deal -  
5 -

6 (Simultaneous speaking.)

7 MR. KATZ: -- not like a sufficiency  
8 case.

9 MR. CALHOUN: No, it's not. No.

10 MR. KATZ: So, this is fine.

11 MR. CALHOUN: Let me tell you, I'm  
12 going to read from -- I can read from the DR  
13 here, and it doesn't have anything specific.

14 It says because there's no specific  
15 external model, dose model, that calculates the  
16 dose directly to the brain either the thyroid or  
17 remainder organs can be used. The thyroid is  
18 used when a maximizing estimate of dose is  
19 performed. But this time the remainder organs  
20 were used.

21 So there was a choice to pick for a  
22 best estimate and we used the remainder. So it

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1 says that in here, unless this is a different  
2 version than you guys reviewed.

3 MS. GOGLIOTTI: I think the question  
4 was not whether or not you followed your  
5 procedures. We completely agree with that.

6 MR. CALHOUN: But see the procedure  
7 tells us we can pick between A or B. And we  
8 chose the right one. Now you're asking us, I  
9 believe, to come up with C, and that doesn't  
10 exist.

11 MEMBER BEACH: I think they left that  
12 open for the Work Group to decide if it was  
13 worthy of a discussion point. And I think it's  
14 fine. I mean, I think we can close this.

15 MEMBER RICHARDSON: I agree.

16 CHAIR KOTELCHUCK: Should there be a  
17 note to the Procedures Subcommittee?

18 MR. CALHOUN: Here's what's going to  
19 happen, Dave, and it might take a while. And I  
20 can't tell you that brain is specifically listed  
21 in the new ICRP that we're evaluating.

22 But we're going through this, and you

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1 know how we do PERS. PERS are, you know, we go  
2 back and look at everything. The DCFs, those  
3 are the dose conversion factors, those are going  
4 to change for a significant number of organs.  
5 And there may very well be some that are added  
6 for organs that previously did not have one.

7 So if a new DCF is derived for the  
8 brain in the process of this, every case that's  
9 non-comped that's a brain cancer will have an  
10 evaluation performed to make sure that the  
11 appropriate DCF was used if in fact that DCF  
12 would result in a higher dose than the surrogate  
13 organs or other things that we're currently  
14 using.

15 CHAIR KOTELCHUCK: Okay. So it may  
16 be resolved in the ordinary course of events.  
17 It will be a while.

18 MR. CALHOUN: Yes. And the key that  
19 we need to leave here with is we don't  
20 necessarily believe anything needs to be  
21 resolved. It's just a question of maybe  
22 something isn't as good as it could be.

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1 CHAIR KOTELCHUCK: Right. And the  
2 case has been compensated so there's nothing in  
3 terms of compensation -- well, what we decide,  
4 if we close it, it has no impact and there's a  
5 good chance that something better will come that  
6 is in fact being worked on right now. Right?

7 MR. CALHOUN: Yes.

8 MEMBER MUNN: To further that point,  
9 I see no reason for us to attempt to do  
10 something with this. To what end? It's unclear  
11 to me. I'm not sure what our purpose would be  
12 in undertaking this discussion.

13 CHAIR KOTELCHUCK: You mean in terms  
14 of asking -- sending it to the Procedures  
15 Subcommittee?

16 MEMBER MUNN: No, I mean in terms of  
17 what we're doing right here. I don't know what  
18 any of us can -- how we can further this. For  
19 what purpose and to what end? It doesn't follow  
20 that we can come up with anything other than the  
21 information that we have, that I can see.

22 CHAIR KOTELCHUCK: The question is,

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1 do we close it or not?

2 MEMBER MUNN: Yes.

3 CHAIR KOTELCHUCK: And I think the  
4 answer is yes, we have to.

5 MEMBER MUNN: Yes.

6 CHAIR KOTELCHUCK: And my suggestion  
7 is sending it to the Procedures Subcommittee is  
8 not useful because it's likely to be resolved in  
9 other ways. So let's just close it.

10 MR. KATZ: Yeah, I mean, Dave, it's  
11 not that it's so broad a thing. With new  
12 information, you know, with progress in science  
13 the methods may be updated with a new DCF.

14 But given the science that was  
15 available at the time, this was the best method.  
16 This was the best information available for  
17 doing this for the brain.

18 There's nothing wrong with this case,  
19 and you can close it. And down the road, if new  
20 information on DCF allows for an update, it will  
21 be updated. But there's nothing wrong with this  
22 case.

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1 CHAIR KOTELCHUCK: Right, which also  
2 says that it's an observation that we're  
3 closing. Okay. Let's go on.

4 MS. GOGLIOTTI: Okay, the next one is  
5 in the same case, it is Finding No. 3. And the  
6 finding says the comparison of the earlier  
7 version of the CADW tool and the current  
8 resulted in a different internal dose.

9 NIOSH had suggested that the reason  
10 we were unable to match these was we were using  
11 old and new files simultaneously, since the CADW  
12 has since been updated.

13 CHAIR KOTELCHUCK: A little louder,  
14 please.

15 MS. GOGLIOTTI: NIOSH has suggested  
16 that the problem that we were having was we were  
17 trying to use old CADW files on the new version  
18 of the CADW, which was resulting in some  
19 differences that we were seeing in dose.

20 And when Ron went back and did this  
21 he was able to verify that that was the cause.  
22 We were mixing old and new files and we were

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1 getting compatibility issues with the software.  
2 And based on that, we recommend closure.

3 CHAIR KOTELCHUCK: Yes. It makes  
4 sense. Close, folks?

5 MEMBER MUNN: Yes.

6 MEMBER BEACH: Yes.

7 CHAIR KOTELCHUCK: Good.

8 MR. KATZ: Okay, so is that a  
9 finding? Or was that was an administrative  
10 matter?

11 MS. GOGLIOTTI: It's more an  
12 administrative matter.

13 MR. KATZ: Yeah, okay. Again, it's  
14 observational. It's not a finding.

15 MS. GOGLIOTTI: Okay, the next one is  
16 the same case, Finding No. 4. We were unable to  
17 match NIOSH's dose correction values for the  
18 exposure to radon.

19 And NIOSH was going to update TIB-11.  
20 And to my knowledge that hasn't been done yet.

21 CHAIR KOTELCHUCK: Response?

22 MR. CALHOUN: I can't tell you if

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1 TIB-11 has been revised yet or not. I doubt it.

2 MEMBER BEACH: Can you tell us if  
3 it's on the list to be revised?

4 MR. CALHOUN: Give me a second.

5 MS. GOGLIOTTI: This is TIB-11 not  
6 OTIB-11.

7 MR. KATZ: Can I ask, while they're  
8 looking for that, as to whether it's revised or  
9 not, but is this a finding where NIOSH agreed  
10 with the finding and updating the TIB? Is that  
11 what we're talking about here?

12 MR. CALHOUN: This is Grady. I just  
13 got back from walking down the hall and we  
14 certainly have that on our list. I'm not going  
15 to say that it's imminent. But like anything  
16 else, when that gets revised, anything that's  
17 affected by it will be reviewed and revised as  
18 necessary.

19 MR. KATZ: Grady, I was just asking  
20 while you were walking down the hall, was there  
21 an error that you're revising in the TIB that  
22 was this finding?

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1 MS. GOGLIOTTI: No, this --

2 MR. CALHOUN: I don't think so.

3 MS. GOGLIOTTI: NIOSH's response  
4 here, it says that they didn't feel a lengthy  
5 technical revision was appropriate for the dose  
6 reconstruction but they would include that in  
7 the next revision of the TIB. And SC&A was  
8 tasked to review that whenever that happens for  
9 --

10 MR. KATZ: A police car just went by  
11 -- I think I understood what you were saying.  
12 I'm just unclear as to whether this -- is this a  
13 finding? Is this an observation? I don't know  
14 what this is.

15 MEMBER MUNN: I don't either, but it  
16 looks like what we're asking for is a  
17 clarification of the derivation of the DCF.  
18 Right?

19 MS. GOGLIOTTI: Yes. We're looking  
20 for the derivation of the dose conversion  
21 factor.

22 MR. KATZ: Okay, but that sounds like

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1 an observation.

2 MR. CALHOUN: Yeah, it sounds like  
3 there's nothing wrong, it's just they need a  
4 better explanation.

5 CHAIR KOTELCHUCK: Yes, sounds like  
6 it to me, too.

7 MS. GOGLIOTTI: I think it's hard to  
8 know if there's something wrong without the  
9 information.

10 MR. KATZ: Right, without seeing the  
11 derivation.

12 CHAIR KOTELCHUCK: Okay. So it will  
13 remain in progress and likely will be -- when we  
14 resolve it, it's likely to be an observation.

15 MR. KATZ: Okay, so it's in progress.

16 CHAIR KOTELCHUCK: Absolutely. Okay.

17 MEMBER MUNN: There is a response to  
18 the last question, whether the TIB's been  
19 crafted or issued. The answer is no, but it is  
20 on the list. It's on the list for revision.

21 MS. GOGLIOTTI: Yes. And in NIOSH's  
22 responses they did say that it would be revised.

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1 CHAIR KOTELCHUCK: Okay, good. We  
2 have only remaining the 33.2 and .3. And that  
3 will finish this file, as best we can at this  
4 time.

5 MS. GOGLIOTTI: This is a Ventron  
6 Corporation case. And the finding states that  
7 SC&A questions whether NIOSH used the  
8 appropriate procedures/methods for  
9 reconstructing internal dose on behalf of this  
10 case.

11 And we have not had a more recent  
12 response here, but NIOSH essentially said  
13 they're using TBD-6000 to assign dose to the  
14 residual period. And we had some remaining  
15 concerns about whether the approach they were  
16 using was compliant with the Board's surrogate  
17 data criteria.

18 Actually, I think this ties in with  
19 the next one, NIOSH's response to the next. So  
20 let me just pull that up, 433.3.

21 MEMBER MUNN: As to whether it's  
22 compliant, I think.

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1 MS. GOGLIOTTI: Yes. And this just  
2 was posted yesterday so we haven't had a chance  
3 to look at it. But I did see that it was posted  
4 this morning.

5 The residual period value described  
6 in TBD-6000 is not a measurement taken from this  
7 facility, rather a model. Measurements at  
8 several facilities were reviewed as part of  
9 creating the model, but they were not used  
10 directly as the value.

11 Therefore it would be difficult to  
12 evaluate against the Board's surrogate data  
13 criteria. Also, residual contamination at  
14 uranium metal facilities does not normally  
15 involve metal, but rather metal oxides.

16 As such, [during] the residual  
17 period, there is little distinction between  
18 uranium metal and refining facilities. In fact,  
19 TBD-6001 for uranium-refining facilities  
20 contains the same model for the residual  
21 contamination.

22 MEMBER BEACH: So is this something

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1 where SC&A would need to review that model?

2 MS. GOGLIOTTI: I don't think that we  
3 need to re-review it, but I would like to have  
4 John Mauro look at this, if that's alright, and  
5 we can carry this till next time.

6 MEMBER MUNN: It's well-established  
7 that both SC&A and NIOSH have used it  
8 frequently.

9 MEMBER BEACH: It doesn't hurt to  
10 have them look at it, though.

11 MEMBER MUNN: True.

12 MS. GOGLIOTTI: I just would like him  
13 to see this response in correlation with this  
14 case.

15 MR. KATZ: So will both of these,  
16 then, be in progress, 33.2 and .3?

17 CHAIR KOTELCHUCK: Yeah, they're both  
18 in progress. Okay. That appropriately sets 14  
19 through 18, the files, the four files for 14  
20 through 18. So it sounds like a good time to  
21 take a break. It's 2:47 so let's gather at  
22 3:05. Fifteen minutes.

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1 MEMBER BEACH: Sounds good.

2 CHAIR KOTELCHUCK: Okay? See you at  
3 3:05, folks.

4 (Whereupon, the above-entitled matter  
5 went off the record at 2:47 p.m. and resumed at  
6 3:08 p.m.)

7 **Continuing review of backlog of**  
8 **Category 1 and 2 cases from**  
9 **Sets 19-21**

10 CHAIR KOTELCHUCK: Okay, then, we  
11 we're talking about doing SRS and Hanford for 19  
12 through 21. And Rose said there are maybe eight  
13 cases to do. So let's get started.

14 MS. GOGLIOTTI: Okay. And we did  
15 already go over this matrix once, so they're no  
16 longer broken down into Type 1 and Type 2.  
17 These are just the remaining issues that we were  
18 not able to resolve the first go-around.

19 CHAIR KOTELCHUCK: Okay.

20 MS. GOGLIOTTI: And the first one is  
21 a Hanford, 479.1.

22 CHAIR KOTELCHUCK: Good.

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1 MS. GOGLIOTTI: And the finding had  
2 to do with the correct dates for calculating  
3 PUREX doses. And we did have one remaining  
4 question at the end of the last meeting, which  
5 was, was there a potential for Pu exposure at  
6 the PUREX facility after 1992 or was it all  
7 removed at the end of '92? This particular  
8 case, the EE was in a job title referred to  
9 being employed in the PUREX process beyond 1992.

10 And here NIOSH responded, saying that  
11 although the PUREX operations ceased at the end  
12 of '92, deactivation of PUREX occurred between  
13 1992 and 1996 and included Pu removal and  
14 decontamination activities of N Cells and Q  
15 Cells. So potential Pu and U exposure to a  
16 small group of workers under the tightly  
17 controlled access existed.

18 A data search was requested for the  
19 site, was developed and sent to identify this  
20 group of workers and potentially associated  
21 bioassays.

22 Since the EE states that he managed

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1 PUREX through '99, this information has been  
2 requested for the site and the dose  
3 reconstruction will be revised if the resulting  
4 response indicates that this is warranted.

5 CHAIR KOTELCHUCK: Right. And  
6 presumably we do not have that response. Or do  
7 we have that response?

8 MS. GOGLIOTTI: That was NIOSH's  
9 response.

10 MR. SIEBERT: As far as I know we  
11 have not yet received a response from the site  
12 on that information.

13 CHAIR KOTELCHUCK: Okay. That sounds  
14 fine. Okay, so we'll keep that in progress.

15 MS. GOGLIOTTI: Actually, 479.3 is  
16 basically an identical finding but has to do  
17 with uranium dose instead of Pu dose. And so,  
18 based on that response, I would recommend  
19 leaving that one open as well.

20 CHAIR KOTELCHUCK: Okay.

21 MS. GOGLIOTTI: And then the only  
22 remaining one on this case is .2, also a Hanford

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1 case, that positive whole body count was not  
2 included in the assessment.

3 And going through here, NIOSH had  
4 excluded that result because they felt that it  
5 was a termination result. But they did go back  
6 and assign fitted rather than missed cesium and  
7 OTIB-54. And that increases the intake rate for  
8 the employment period and also slightly  
9 increases the missed intake rate for the  
10 subsequent employment period.

11 It increases the assigned OTIB-54  
12 dose by 26 millirem to skin and 20 millirem to  
13 the other organs, and does not impact the claim.  
14 So based on that we would recommend closure.

15 CHAIR KOTELCHUCK: Right. Okay.  
16 That seems reasonable. Any comments from the  
17 Subcommittee Members? Any objections? Okay,  
18 then we can close it.

19 MS. GOGLIOTTI: Okay, the next one is  
20 482, Observation 1. And this is a Hanford and  
21 Lawrence Livermore.

22 CHAIR KOTELCHUCK: Wait a minute,

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1 didn't we go over that before?

2 MS. GOGLIOTTI: We have gone over  
3 482, but this is an observation rather than a  
4 finding.

5 CHAIR KOTELCHUCK: Oh, okay.

6 MS. GOGLIOTTI: And with this one  
7 there was a glove box adjustment factor that was  
8 used when the ratio of shallow to deep doses was  
9 2.19. We were concerned about where that number  
10 came from. NIOSH pointed to a spot in the DR  
11 template where that came from.

12 However, we're still not sure what  
13 the meaning of the 2.19 is relative to how it  
14 was used. So we're provided with where it came  
15 from in the references but not any justification  
16 about what that 2.19 represents.

17 CHAIR KOTELCHUCK: Okay.

18 MR. SMITH: This is Matthew Smith  
19 with ORAU Team. And, Scott, I think you and I  
20 maybe have exchanged emails on this. I'm not  
21 sure if it's into the BRS.

22 The origin of that factor of 2 traces

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1 back to a very early TIB, which is, at the time,  
2 called OCAS-TIB-7. And although the title of it  
3 is assignment of neutron dose for Savannah  
4 River, embedded in that document of guidance to  
5 help the dose reconstructor figure out if an  
6 Energy Employee was working in the H and F  
7 Canyons. In other words, in a glove box  
8 situation.

9 And among the guidance given in that  
10 section is a guidance to take a look at the  
11 shallow dose to deep dose ratio. And in there  
12 it's stated if it's greater than 2 then you've  
13 got pretty good evidence, along with plutonium  
14 bioassay monitoring, that that person was  
15 probably working on the F or H lines.

16 So with that as a very early set of  
17 guidance on the project, that factor of 2 ended  
18 up being used as a way to kind of judge whether  
19 or not somebody [was] doing glove box work. I  
20 think in this case somebody had probably in the  
21 CATI had checked "sometimes" with respect to  
22 glove box work.

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1           So that shallow to deep ratio factor  
2           has its lineage back to OCAS or DCAS TIB No. 7.  
3           And the specific page is page 4 of 6 in that  
4           document.

5           The 2.19 is actually the geometric  
6           mean value of what we do call the glove box  
7           factor, which is out of DCAS-TIB-10.

8           My guess is that it was put in a  
9           template because somebody was thinking about  
10          glove box work, considering that factor of 2 as  
11          something that we've used as a guidance number.

12          MS. GOGLIOTTI: Is it possible for  
13          you to write up specifically in the BRS that  
14          comment?

15          MR. SMITH: Certainly. I'll work  
16          with Scott to get that done.

17          CHAIR KOTELCHUCK: Okay. So, sounds  
18          like we could accept that observation at this  
19          point, yes?

20          MS. GOGLIOTTI: Well, I would like to  
21          actually investigate further.

22          CHAIR KOTELCHUCK: You'd like to

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1       await the write-up. Okay. So we'll leave it in  
2       progress until next time. That's okay.  
3       Alright.

4                   MS. GOGLIOTTI:     The next one is  
5       Observation 4 from the same case.

6                   CHAIR KOTELCHUCK:   Which observation?

7                   MS. GOGLIOTTI:   482, Observation 4.

8                   CHAIR KOTELCHUCK:   Oh, yes. Sure.  
9       Okay.

10                   MEMBER CLAWSON:   Rose, what was the  
11       number again on that? 482?

12                   MS. GOGLIOTTI:   482, Observation 4.  
13       Again, this is a Hanford and Lawrence Livermore  
14       case.

15                   And where we left it last, having  
16       discussed it I believe in January, was that we  
17       had a question on how the dose was being  
18       assigned.

19                   And NIOSH came back and said that  
20       there was a miscommunication in the updated  
21       missed dose in the previous response. The  
22       extension to the exposure timeframe resulted in

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1 an increase in dose to both organs impacted.

2 The new value is .307 rem to one  
3 organ and .334 to the other. And that is an  
4 increase of what was done previously. But it  
5 did not impact outcome of the claim.

6 And so, based on NIOSH's response, it  
7 appears that the end date of Pu exposure should  
8 have been extended through '66 to the end of  
9 June --

10 CHAIR KOTELCHUCK: I am having  
11 trouble locating -- 480?

12 MS. GOGLIOTTI: 482, Observation 4.

13 CHAIR KOTELCHUCK: Okay, I don't know  
14 why I'm not finding it. 482, Observation 4.  
15 Please go on while I search.

16 MS. GOGLIOTTI: It should be  
17 approximately page 27, if I had to guess.

18 CHAIR KOTELCHUCK: Thank you. That  
19 will help. Go ahead, please.

20 (Simultaneous speaking.)

21 MS. GOGLIOTTI: -- increase in dose,  
22 but since it doesn't affect compensation we

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1 recommend closing this issue.

2 CHAIR KOTELCHUCK: Okay.

3 MS. GOGLIOTTI: And because it did  
4 increase dose we do also recommend that this be  
5 elevated to a finding rather than an  
6 observation.

7 CHAIR KOTELCHUCK: Comments, folks?  
8 I'm still searching around.

9 MR. BARTON: I can add a little bit  
10 to this, Rose. This is Bob Barton.

11 In the original case, and I'm kind of  
12 working a little bit from memory here, the case  
13 had assumed that plutonium exposures stopped in  
14 June of 1966.

15 And we made an observation because we  
16 didn't really see why that was the end date  
17 chosen. And in fact there was at least some  
18 indication that June 1967 was actually the date  
19 that plutonium exposure should have been  
20 extended to based on a document that definitely  
21 indicated at that time that the worker had  
22 terminated work with plutonium.

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1           Based on the response, it did not  
2           impact the case, but probably in the original  
3           go-around it should have been June 1967 and not  
4           June 1966 that plutonium exposures were  
5           evaluated to.

6           Again, at the time of the review we  
7           didn't really understand and so didn't want to  
8           call it a finding, but based on the response it  
9           appears that extra year should have been added  
10          in the original dose reconstruction.

11          So our last comment here is the  
12          Subcommittee may want to consider -- so, in our  
13          case, we're actually elevating an observation to  
14          a finding because it appears that it was not  
15          done quite correctly the first time around.

16          CHAIR KOTELCHUCK: Okay, good, good.  
17          Alright, that seems reasonable. So we should  
18          close this as a finding. Good. Excellent.  
19          Let's go ahead.

20          MS. GOGLIOTTI: Okay, and since we  
21          did already discuss 42.1 the next one would be  
22          451.1.

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1 CHAIR KOTELCHUCK: Okay.

2 MS. GOGLIOTTI: And the finding said  
3 that the procedure for the assignment of Pu dose  
4 from chest count was not clear.

5 MR. KATZ: Wait, which site is this?

6 MS. GOGLIOTTI: This is a Hanford and  
7 an RFP.

8 MR. KATZ: Okay, thanks.

9 MEMBER CLAWSON: Rose, this is 451,  
10 observation what?

11 MR. KATZ: 451.1.

12 MEMBER CLAWSON: Okay.

13 MS. GOGLIOTTI: And for this one we  
14 ended up doing some more research and we found  
15 that the survey calibration factor for cpm to  
16 nanocuries of americium-241 came from the  
17 surrogate case's DOE response files rather than  
18 the case's DR files.

19 And although that's somewhat  
20 abnormal, the NIOSH method does seem reasonable  
21 to us in this case where our RFP reported cpm  
22 instead of dpm for this particular individual.

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1                   They used cpm to nanocurie  
2 calibration factors based on other workers'  
3 files with similar chest indexes and time period  
4 and used similar detectors. So based on that,  
5 we do recommend closure.

6                   CHAIR KOTELCHUCK: Okay.

7                   MS. GOGLIOTTI: I believe NIOSH  
8 committed to incorporating that into at least  
9 the guidance document, if I remember correctly.

10                  MR. KATZ: So is that still a  
11 finding? Sounds like it's not.

12                  CHAIR KOTELCHUCK: Pardon?

13                               (Simultaneous speaking.)

14                  MS. GOGLIOTTI: -- just the way the  
15 results were reported by the site.

16                  MR. KATZ: Right. That's an  
17 observation.

18                  CHAIR KOTELCHUCK: Yes.

19                  MS. GOGLIOTTI: Okay.

20                  CHAIR KOTELCHUCK: Okay.

21                  MS. GOGLIOTTI: And then there's one  
22 last one in this matrix and that's 465.1. And

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1       this is a Savannah River case.   And here the  
2       finding says missed photon dose was assigned  
3       instead of coworker dose.

4               And we discussed this at length at  
5       the last meeting and the Subcommittee wanted  
6       additional time to review this particular  
7       finding.

8               We, Scott and I, seemed to come to  
9       the conclusion that this was a professional  
10      judgment --

11              CHAIR KOTELCHUCK:   A little louder,  
12      please.

13              MS. GOGLIOTTI:   Scott and I, at least  
14      at the end of last meeting, came to the  
15      conclusion that this was a professional judgment  
16      issue.

17              However, this is the Savannah River  
18      [facility] and it does have to do with the  
19      coworker modeling that's still being discussed  
20      by the SRS Work Group.

21              CHAIR KOTELCHUCK:   Right.   So that  
22      would remain in progress.   Correct?

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1 MS. GOGLIOTTI: You're welcome to  
2 keep it in progress.

3 CHAIR KOTELCHUCK: Your feeling,  
4 though, is that it's resolved.

5 MS. GOGLIOTTI: It's a professional  
6 judgment issue whether or not you should be  
7 assigning missed dose versus coworker dose.

8 I believe this EE had monitoring  
9 after a certain period but not before and so  
10 coworker dose was assigned -- or missed dose was  
11 assigned and we believe that it would be more  
12 appropriate to assign coworker dose.

13 MEMBER CLAWSON: This is our standing  
14 on our coworker model, correct?

15 MS. GOGLIOTTI: The SRS Work Group is  
16 currently discussing this.

17 (Simultaneous speaking.)

18 MR. KATZ: But the Work Group's not  
19 going to discuss this kind of matter, which is a  
20 judgment about whether this case should be  
21 treated as coworker based on the records of this  
22 individual. This is not going to get resolved

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1       there.

2                   MS. GOGLIOTTI:     Well, I think the  
3       issue was, for certain years, SRS left results  
4       blank. And that indicated either that there was  
5       no monitoring or there was a zero result. And  
6       how you interpret that impacts how dose is  
7       assigned.

8                   MR. SIEBERT:     This is Scott. And I  
9       can probably give a little bit more detail as to  
10      the thought process that went a little further  
11      into this.

12                  CHAIR KOTELCHUCK:     That would be  
13      appreciated.

14                  MR. SIEBERT:     Sure. When it comes  
15      down to it --

16                  MS. GOGLIOTTI:     Whoever has the siren  
17      in the background, can you mute your phone?

18                  MR. KATZ:     It's probably Dave.

19                  MR. SIEBERT:     The monthly monitoring  
20      was assumed based on the CATI. The EE did say  
21      they routinely wore a dosimetry badge, and they  
22      also did indicate that they always wore the

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1 badge.

2 This is kind of different than the  
3 previous one we were talking about with the  
4 difference in the CATI in the fact that we know  
5 Savannah River's records here are not  
6 necessarily clear to understand, but they're  
7 still there.

8 The HPAREH does include the years for  
9 '84 and '85 with no results. So they're blank;  
10 they're not necessarily missing.

11 There wasn't any reason to believe  
12 the person wasn't being monitored in '84 and  
13 '85, which you would see a blank, [whereas] if  
14 they were being monitored, they were all zeroes.  
15 So there really wasn't a thought process of  
16 including coworker at that point.

17 Let's see here. And those are the  
18 basic thought processes that go into the years  
19 where it was assumed to be missed dose based on  
20 the way they did their records versus coworker  
21 assuming the person wasn't really monitored.

22 MS. GOGLIOTTI: I do believe, also,

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1 during those early years there was bioassay  
2 data.

3 MR. SIEBERT: Yes, the individuals  
4 did frequently have bioassay as well.

5 MR. KATZ: So, again, in my view,  
6 that's not going to get -- it's particular to  
7 this case. It's not going to get resolved by  
8 the Savannah River Site Work Group, what they're  
9 addressing. So it's up to the Subcommittee to  
10 decide what they feel is reasonable here.

11 MEMBER MUNN: Well, we've made a  
12 number of decisions about this kind of thing in  
13 the past with which, as most of you know, I  
14 didn't agree at the time and still don't.

15 I don't agree with the assertion that  
16 zero reported dose means that something was  
17 missed. I've known too many people, and myself  
18 being one of them, who had no exposure at all  
19 despite the fact that I was working in a  
20 radiation zone.

21 And, to me, that's what we have the  
22 monitoring program for. But that's not the

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1 issue here. The issue here is whether or not  
2 one should use a coworker, if I interpret what  
3 I'm reading correctly.

4 And I thought that one of our first  
5 rules of addressing any site, and any set of  
6 data, involves the assertion that available data  
7 was going to be used whenever it was available.

8 The fact that you get information  
9 that says it's zeroes leading to the assertion  
10 that you might consider therefore using a  
11 coworker model is contradictory to what we have  
12 seemed to accept as a fairly prime rule in  
13 addressing how we do these things.

14 Unless I'm misinterpreting what I  
15 think I'm reading here. From my perspective,  
16 you have records. They were zero.

17 MS. GOGLIOTTI: They're blank.

18 MEMBER MUNN: Yes.

19 MEMBER CLAWSON: Well, that's also  
20 based on how good your information is. And if  
21 you see you're asked to close in all the  
22 systems, especially this site, you would start

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1 bringing into question those blanks. That's  
2 kind of where I'm sitting at on it.

3 MEMBER MUNN: Gee, Brad, I think you  
4 and I have had this conversation before. This  
5 sounds familiar to me.

6 MEMBER CLAWSON: It really does.  
7 It's like deja vu isn't it.

8 MEMBER MUNN: Yeah, all over again.

9 MEMBER CLAWSON: Well, and I know  
10 what -- I don't know what to -- part of my thing  
11 is I know we're still trying to even work out a  
12 coworker model and that's into question right  
13 now too. That's why I was wondering what -- you  
14 know, granted if we can't come up with a  
15 coworker model or a -- that would change this,  
16 wouldn't it?

17 MR. KATZ: No, it wouldn't, Brad,  
18 because the question here, Brad, is simply  
19 whether this is appropriately interpreted as  
20 this person wasn't monitored for that period, or  
21 that the person was monitored and has zero  
22 doses.

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1                   That's the only question at hand. It  
2 doesn't really matter whether or not this  
3 coworker model.

4                   MR. SIEBERT: And like I said, this  
5 is Scott. All those pieces of information went  
6 into our decision as well as looking at the  
7 other years. And there were other years where  
8 they -- the rest of their years were relatively  
9 low dose years.

10                   We really didn't have a -- there's no  
11 indication they changed jobs after -- during  
12 that time frame when they started being  
13 monitored -- or started seeing values in the  
14 HPAREH result.

15                   And as Kathy mentioned -- I  
16 appreciate you reminding me of this, Kathy --  
17 there was bioassay data present in '84 which  
18 would be an indicator they were being monitored.  
19 And generally speaking, you're not going to  
20 internally monitor without the external.

21                   I mean, it can happen, but at  
22 Savannah River generally that didn't happen.

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1 And we do know, their records, that blank could  
2 mean they were unmonitored or they were  
3 monitored with all zeroes.

4 And in our thought process the weight  
5 of the evidence seemed to indicate this is --  
6 there was no reason to believe he was not  
7 monitored -- or she; I don't know which -- the  
8 individual was not monitored during that  
9 timeframe, whereas there are great indications  
10 to say they likely were being monitored.

11 So it's a weight of the evidence  
12 thought process from our point of view.

13 MS. GOGLIOTTI: That was actually me,  
14 that was Rose, I apologize.

15 MR. SIEBERT: Oh, I'm sorry, Rose.

16 MS. GOGLIOTTI: For the transcript.  
17 So what it boils down to is it's a professional  
18 judgment issue, is how I see it.

19 MEMBER BEACH: Right, that's what I  
20 see, too.

21 MEMBER MUNN: To me it's a weight of  
22 the evidence issue. That's what professional

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1 judgment is for, actually, is to --

2 MR. KATZ: Well, in the past, in  
3 other forums, we've had SC&A argue that since  
4 there's internal monitoring for someone they  
5 probably were monitored externally and something  
6 has gone wrong with those records. We've had  
7 that argument in other forums.

8 MEMBER MUNN: Yes. None of this is  
9 new. I find no fault with the rationale myself.

10 MEMBER CLAWSON: When I personally  
11 sit there and look at it, they're making an  
12 awful lot of assumptions. Be it, they're  
13 professional, but also too is the background of  
14 this site, too.

15 MEMBER BEACH: You could easily have  
16 gone the other way and the most claimant-  
17 favorable way: give them dose for that  
18 timeframe.

19 MS. GOGLIOTTI: I can say  
20 unequivocally that the PoC in this particular  
21 case was low enough where a couple of years of  
22 coworker dose is not going to do anything.

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1                   MEMBER BEACH:    Right, but it may on  
2                   some others.

3                   MEMBER MUNN:       Does anyone have a  
4                   large axe for the Gordian knot?

5                   (Pause.)

6                   MEMBER BEACH:       Guess not.     Did we  
7                   lose Dave?

8                   MEMBER CLAWSON:       Maybe he got  
9                   arrested.

10                  (Laughter.)

11                  MR. KATZ:     Dave went on mute because  
12                  of the sirens, I think.

13                  MEMBER BEACH:    Right.

14                  MEMBER MUNN:       I think the fire  
15                  department was doing their usual good deeds.  
16                  Can you hear us, Dave?

17                  MR. KATZ:     Dave, are you trying to  
18                  speak?   You're on mute.

19                  CHAIR KOTELCHUCK:   My goodness.   I'm  
20                  so sorry.   I was on mute.   That last fire engine  
21                  that went by, I muted and then didn't unmute.

22                  So, thank you, because I've been

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1 talking to myself for a few moments. And as I  
2 said, I would lean toward the coworker dose  
3 simply to give the benefit of the doubt and  
4 being as worker-friendly as I could in good  
5 conscience be, let's just say that.

6 So I would kind of lean to the  
7 coworker, but I could have been -- I was playing  
8 around in my own mind as we were talking about,  
9 maybe I'll just abstain on this one because I  
10 really don't -- I can't make up my mind.

11 But I think, on balance, I guess I  
12 would vote that we should do the coworker dose  
13 on the claimant-friendly argument. It could go  
14 either way and I would not criticize either way.

15 MEMBER BEACH: I'll jump on that,  
16 Dave, and say I agree.

17 MEMBER CLAWSON: What I want to make  
18 clear is I'm not looking at -- yes, we're  
19 looking at this case, but I'm looking at, you  
20 know, for this one it may not be compensated,  
21 but I'm looking at the other ones that possibly  
22 are. Because this is just a snapshot of small

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1 pieces that we're even monitoring or checking.

2 MR. CALHOUN: This is Grady. This is  
3 one of those cases where we may have to agree to  
4 disagree. I don't think that we're going to go  
5 change it just because a couple of people think  
6 that we should.

7 Like you said, this is a professional  
8 opinion. I mean, we can take another look at it  
9 and see if there's something else that drives us  
10 the other way, but at this point I'm inclined to  
11 probably let it be as it is.

12 MEMBER CLAWSON: So here's what I  
13 would suggest. Why don't we just kind of hold  
14 off on this until after our meeting in Santa Fe?  
15 And we'll reevaluate this one after that.

16 MR. KATZ: Well, Brad, again, it  
17 doesn't make a difference whether you have a  
18 coworker model or not for this question.

19 MEMBER CLAWSON: I'm not talking  
20 about the coworker model, I'm talking about the  
21 information from this site. And that'll be  
22 coming out in a report here shortly.

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1           I think, after that report comes out,  
2           I think we could reevaluate this one, especially  
3           with this time period right here. And I bet you  
4           we can probably change a little bit.

5           CHAIR KOTELCHUCK: Okay.

6           MEMBER CLAWSON: We'll wait until  
7           that report comes out and also too just set this  
8           aside and we'll agree to disagree right now and  
9           reevaluate it.

10          CHAIR KOTELCHUCK: I look forward to  
11          the report. The report certainly will give me  
12          better context in which to try to make the best  
13          decision I can.

14          MR. SIEBERT: This is Scott. Let me  
15          also clarify. I just looked at the coworker  
16          values versus the missed dose values that we've  
17          assigned. And they're basically the same.  
18          Coworker is right around 100 millirem for  
19          shallow and 120 were assigned for those specific  
20          years.

21          CHAIR KOTELCHUCK: But I'm already --  
22          certainly, as one person, I'm already convinced

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1 it's not going to make much difference in this  
2 case. But it's the implication for other cases  
3 that makes me want to try to make the best  
4 decision I can here.

5 MR. SIEBERT: Sure. I'm just  
6 pointing out those other cases would be the same  
7 way because it's the same missed dose and it's  
8 the same coworker values that would be used.

9 I'm just pointing it out for  
10 everybody. I'm okay with the decision. I'm  
11 just pointing that out, too.

12 CHAIR KOTELCHUCK: Okay. Good. But  
13 I think we'll wait. I would like to wait for  
14 the report. Unless there's objection from other  
15 Subcommittee people, let's hold this off until  
16 the meeting after that report is released and we  
17 have a chance to read it.

18 MR. BARTON: Scott, this is Bob. Can  
19 I ask a quick question? Did you just say that  
20 the coworker doses are lower than the missed  
21 doses?

22 CHAIR KOTELCHUCK: No.

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1                   MR. SIEBERT:    They're in about the  
2                   same range, 100 to 120.

3                   MR. BARTON:    And 120 is the coworker  
4                   dose?

5                   MR. SIEBERT:    One hundred and twenty  
6                   is what was assigned, and a little over 100 is  
7                   what the coworker dose would be.

8                   MR. BARTON:    Okay.    And what was  
9                   assigned was not just completely missed dose.  
10                  It had some positive values in there?

11                  MR. SIEBERT:    No, it's entirely  
12                  missed dose.

13                  MR. BARTON:    Oh, okay.

14                  CHAIR KOTELCHUCK:  Alright.  Folks,  
15                  that finishes -- for 19 to 21, that finishes the  
16                  SRS Hanford file, if I'm not mistaken.  Is that  
17                  correct, Rose?

18                  MS. GOGLIOTTI:  Yes, you're correct.

19                  CHAIR KOTELCHUCK:        So, we have  
20                  basically the remaining DOE sites, which are  
21                  almost all open, and then the Oak Ridge and GDP  
22                  site file, which has a number that we have

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1 discussed and a number remaining open.

2 MS. GOGLIOTTI: The Oak Ridge sites,  
3 we've only discussed one and we went out of  
4 order on that particular case.

5 CHAIR KOTELCHUCK: Oh, okay. Really?  
6 Okay. So, what is your pleasure, Rose, on this  
7 file, to go to next?

8 MS. GOGLIOTTI: My preference would  
9 be that we work through the Type 1 findings on  
10 the Oak Ridge site and the GDP cases.

11 CHAIR KOTELCHUCK: Okay. How does  
12 that sound, folks?

13 MEMBER MUNN: Sure.

14 CHAIR KOTELCHUCK: Alright. Good.  
15 It's always nice to come to Type [Category] 1.  
16 Okay.

17 MEMBER CLAWSON: Let the good times  
18 roll.

19 MS. GOGLIOTTI: Actually, almost all  
20 of the cases remaining are Type 1, so it should  
21 be easy.

22 CHAIR KOTELCHUCK: Okay.

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1 MR. KATZ: Rose, you're faint to hear  
2 again.

3 MS. GOGLIOTTI: Can you hear me now?

4 MR. KATZ: Yeah, that's better.  
5 Thanks.

6 CHAIR KOTELCHUCK: Good. Now, is  
7 this your Excel file?

8 MS. GOGLIOTTI: Yes. We use an Excel  
9 file for the Type 1 findings and then we switch  
10 to the BRS for the Type 2 findings, in general.

11 CHAIR KOTELCHUCK: Got it. Okay,  
12 good, good. Alright.

13 MS. GOGLIOTTI: Give me one second.  
14 Okay, can you see my screen?

15 MEMBER MUNN: Yes.

16 MS. GOGLIOTTI: Okay. We'll start  
17 with 457.1, and that's Oak Ridge, all three  
18 facilities.

19 CHAIR KOTELCHUCK: I can't hear.

20 MS. GOGLIOTTI: 457.1. It's an Oak  
21 Ridge case. All three of the Oak Ridge  
22 facilities.

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1           And the finding states that NIOSH's  
2           assignment of ambient external dose is not  
3           consistent with other unmonitored dose in the  
4           case. And the resolution was NIOSH admits that  
5           the assignment of internal coworker dose was  
6           inconsistent with the assigned missed ambient  
7           external.

8           However, it was assigned as an  
9           overestimate and that method of overestimation  
10          is not the current DR practice. So this was  
11          kind of a historical thing that they're no  
12          longer doing. The overestimate doesn't impact  
13          compensation, so based on that we recommend  
14          closure.

15                   MEMBER MUNN: Agreed.

16                   CHAIR KOTELCHUCK: I'm in the Excel  
17          file which you sent us.

18                   MS. GOGLIOTTI: If you open the Excel  
19          file, and if you go into the "all findings" Tab,  
20          which is the second tab. And then in Column D,  
21          if you sort for the matrix, it should be Oak  
22          Ridge GDP.

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1 CHAIR KOTELCHUCK: 458?

2 MS. GOGLIOTTI: 457.1. And then you  
3 need to also sort row K for TIB-1 findings.

4 CHAIR KOTELCHUCK: Right. But I  
5 don't see 457.1. This is what you sent us. Oh,  
6 all findings. No, my apologies, but I'm looking  
7 at that file. I just don't see 457.1.

8 MS. GOGLIOTTI: That would be listed  
9 in Column E.

10 CHAIR KOTELCHUCK: Column K we  
11 discussed.

12 MS. GOGLIOTTI: K, yes. K should be  
13 sorted to Type 1 findings.

14 CHAIR KOTELCHUCK: Okay, let's see.  
15 Only one.

16 MS. GOGLIOTTI: And then you should  
17 be in the Oak Ridge and GDP matrix for Sets 19  
18 through 21.

19 MEMBER CLAWSON: What is the number  
20 on that again, Rose?

21 MS. GOGLIOTTI: 457.1. And I do have  
22 mine up on your screen.

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1                   CHAIR KOTELCHUCK:   Okay, I'm working  
2                   off of what you sent me.  I haven't been able to  
3                   get on the screen all day.  I tried a few times.

4                   Well, that being the case, let's  
5                   continue on and I will simply follow on audio.  
6                   I don't quite understand why.  Maybe I'll pick  
7                   things up later.

8                   But would somebody, again, if I may  
9                   ask the senior person, Wanda, would you be  
10                  willing to chair for this section of the  
11                  discussion?  And I'll follow as best I can.

12                  MEMBER MUNN:    Sure.  For what it's  
13                  worth, I'll be glad to listen to what our  
14                  fearless leader there is telling us.  As long as  
15                  you have it on the screen, I've got it, Rose.

16                  CHAIR KOTELCHUCK:   Okay, great.

17                  MR. SIEBERT:   This is Scott.  Before  
18                  we move off of 457.1, since we agree nothing was  
19                  wrong, it was an overestimate and determined to  
20                  be an overestimate on purpose, could that --

21                  MS. GOGLIOTTI:   You admitted that it  
22                  was inconsistent with your other assumptions.

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1                   MR. SIEBERT:       Well, it can be  
2                   inconsistent and yet that doesn't mean it's  
3                   wrong if it's used as an overestimate. I could  
4                   use something as a best estimate and an  
5                   overestimate and those will be consistent.

6                   We're not saying that inconsistent is  
7                   wrong. In a non-compensable case we can  
8                   overestimate any specific portion of the case.

9                   MS. GOGLIOTTI: I do agree, but since  
10                  then you have actually dropped that process.

11                  MR. SIEBERT:       Yeah, but it has  
12                  nothing to do with the fact that we did it at  
13                  the time and it was an entirely acceptable way  
14                  of doing claims.

15                  MEMBER MUNN:     Yes, it was, as a  
16                  matter of fact, a preferred one in order to move  
17                  to the activities.

18                  CHAIR KOTELCHUCK: Yes, I agree.

19                  MEMBER MUNN:     So this brings us to  
20                  the question of, is this then, by our current  
21                  standards, a finding? And I guess I'd have to  
22                  say I think probably it was because of the

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1 timing. But it's all timing. And it depends on  
2 how you want to parse it.

3 I would just simply recommend that I  
4 would accept closure and just close it, but if  
5 there's other feelings with that regard then now  
6 is the time.

7 MR. KATZ: Well, so the only question  
8 is -- I think we're agreed on closing it. I  
9 think the question is do we close it as a  
10 finding or an observation? I'm arguing that  
11 it's an observation.

12 CHAIR KOTELCHUCK: And I think it's  
13 an observation in that it was proper to do what  
14 was done at that time. It was an overestimate.

15 MEMBER MUNN: Okay.

16 CHAIR KOTELCHUCK: A lot of different  
17 ways you can overestimate.

18 MEMBER MUNN: Any contrary opinion?  
19 If not, then the ayes have it and it's changed  
20 to an observation and closed.

21 CHAIR KOTELCHUCK: Okay.

22 MEMBER MUNN: Go ahead, Rose. 457.2.

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1 MS. GOGLIOTTI: The next one, same  
2 case, Oak Ridge cases again. NIOSH assigned  
3 1989 dose using the 1990 value. And that does  
4 agree with us. They assigned the 1999 dose  
5 using the 1990 value. It was a transcription  
6 error while comparing the three sites.

7 When they corrected it, the PoC went  
8 from 36.88 to 36.7. So it actually did go down.  
9 It doesn't impact compensation, though, so we  
10 would recommend closure.

11 MEMBER MUNN: Any comments?

12 MEMBER CLAWSON: No.

13 MEMBER BEACH: None here.

14 MR. KATZ: So that's a QA problem.

15 MEMBER MUNN: It is. Yes. Put it in  
16 the QA column and close it.

17 CHAIR KOTELCHUCK: Good. A little  
18 louder, please.

19 MS. GOGLIOTTI: Sorry, my computer is

20 --

21 (Simultaneous speaking.)

22 MR. KATZ: Absolutely.

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1                   MEMBER CLAWSON: Especially when it's  
2 talking to my computer.

3                   MS. GOGLIOTTI: Okay, it looks like  
4 the next one here is the Oak Ridge Gaseous  
5 Diffusion Plant and Y-12.

6                   The finding number is 455.1. And the  
7 finding states that NIOSH used the incorrect  
8 number of missed doses for skin cancers.

9                   NIOSH did agree that the assignment  
10 of additional shallow missed dose was  
11 inappropriate but it does not impact the  
12 compensation decision. So based on that, we  
13 recommend closure.

14                  MEMBER MUNN: Sounds like another QA  
15 to me. And closure. Any questions?

16                  CHAIR KOTELCHUCK: Yes. Sounds good.  
17 That was what number? What case?

18                  MS. GOGLIOTTI: 455.1.

19                  CHAIR KOTELCHUCK: Okay, thank you.

20                  MS. GOGLIOTTI: Okay, the next one is  
21 490.1. And this is a K-25 and X-10 case.

22                  And the finding states that there was

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1 an excess in omission in assigned medical X-ray  
2 doses. And NIOSH did agree that X-rays were not  
3 correctly assigned for the years '73, '80, '83,  
4 and '85. The IREP runs were updated making this  
5 change. The PoC did go up but very modestly.  
6 Based on that we recommend closure.

7 MEMBER MUNN: Same response as 455.1,  
8 I believe. It appears to be another QA  
9 correctly addressed now. Closure is  
10 recommended. Any objections?

11 MEMBER BEACH: No.

12 MEMBER CLAWSON: No.

13 MEMBER MUNN: Okay.

14 MS. GOGLIOTTI: The next one from the  
15 same case, 490.2. It says that NIOSH did not  
16 assign Pu prostate dose for 2009.

17 And NIOSH did agree the OTIB-49 dose  
18 of Pu in 2009 was inadvertently left out of IREP  
19 when copying and pasting. The inclusion did not  
20 impact the overall dose -- or the overall  
21 compensation decision, sorry.

22 MEMBER MUNN: Same response unless

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1 someone objects.

2 MR. SIEBERT: This is Scott. I don't  
3 object. I just want to let you know that now our  
4 process is we insert these into the tool and it  
5 would automatically do the pasting into IREP for  
6 us. So these kind of cut and paste issues are a  
7 thing of the past, from this point of view.

8 MEMBER MUNN: Which we appreciate  
9 greatly, believe me.

10 MEMBER BEACH: Good to know.

11 MEMBER MUNN: I suspect that the  
12 reconstructors appreciate it greatly, too.

13 MR. SIEBERT: Very much so.

14 MEMBER MUNN: Next we are 494.2.

15 MS. GOGLIOTTI: Well, we just did  
16 494, so the next one is Tab 500, Observation 2.  
17 And this is a Y-12 and K-25 case. Let's see,  
18 PROC-60 recommends the environmental geometric  
19 mean dose of 13 microrem per hour obtained from  
20 Table B-7. The DR correctly used this value in  
21 this case. However, in Table B-7 only the total  
22 dose of 21 microrem per hour is listed. And

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1 this difference in the TBD could result in  
2 inconsistencies in future cases.

3 And so we just recommend NIOSH modify  
4 this to prevent future inconsistencies.

5 MEMBER MUNN: Well, am I correct in  
6 stating that the current version is always the  
7 one used, and therefore this would resolve  
8 itself, is that correct?

9 MS. GOGLIOTTI: Well, there's PROC-60  
10 and then there's the TBD.

11 MEMBER MUNN: Okay, same table, yeah.  
12 Would we not always use the new TBD? And does  
13 the new table correspond with PROC-60?

14 MR. CALHOUN: Yes, we always use the  
15 most current TBD.

16 MEMBER MUNN: And does it currently -

17 -

18 MS. GOGLIOTTI: Would you use that  
19 instead of more recent procedures?

20 MR. CALHOUN: I'm not sure I  
21 understand that question.

22 MR. SIEBERT: Let me be clear here.

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1 The TBD is not incorrect, it's just not specific  
2 as to what to do with the value that it lists.

3 And Procedure-60 does give us specific  
4 information as to how to apply it. So, the  
5 documentation, whereas perhaps it could be  
6 clearer, is not inaccurate.

7 MS. GOGLIOTTI: Yes, and it could  
8 just lead to inconsistencies in the future,  
9 which is why we pointed it out and it is an  
10 observation.

11 MEMBER MUNN: So we're talking about  
12 a difference in 13 microrem and 21 microrem,  
13 right?

14 MS. GOGLIOTTI: Correct.

15 MEMBER MUNN: Okay. But the process  
16 -- the protocol is clear in the minds of the  
17 dose reconstructors now? PROC-60 tells them how  
18 to apply the information that exists in both the  
19 TBD and in the procedure itself, right?

20 MR. SIEBERT: Yeah, the dose  
21 reconstructors know what to do as well as the  
22 correct dose is in the tool. So as long as they

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1 pick the right years for ambient it's going to  
2 be correct.

3 MEMBER MUNN: Okay. So the tool  
4 itself is what we rely on. I see that as  
5 acceptable and closed. Is that amenable with  
6 all? The presence of the tool makes a big  
7 difference, is what I'm hearing.

8 CHAIR KOTELCHUCK: Okay.

9 MEMBER MUNN: The presence of the  
10 tool assures us that this will not recur.

11 CHAIR KOTELCHUCK: Yeah.

12 MEMBER BEACH: I agree.

13 MEMBER MUNN: Alright. Close it.

14 MS. GOGLIOTTI: Okay. The next one  
15 is from the same case, Tab 500, Finding 1. And  
16 the finding states that NIOSH applied the  
17 incorrect X-ray dose uncertainty factor for the  
18 year 1961.

19 NIOSH agrees. This is a copy and  
20 paste error and it's correct in the calculation  
21 workbook. So based on that, we would recommend  
22 closure. It's just another QA issue.

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1 MEMBER MUNN: Yes.

2 MEMBER BEACH: Agreed.

3 CHAIR KOTELCHUCK: Okay.

4 MEMBER MUNN: Isn't it nice to be  
5 able to do that at the time?

6 MS. GOGLIOTTI: Yes.

7 MEMBER MUNN: Very nice.

8 MS. GOGLIOTTI: Well, I still go back  
9 and update everything in the BRS, but this helps  
10 me quite a bit.

11 MEMBER MUNN: Yes, really nice to  
12 just be able to do that.

13 MS. GOGLIOTTI: Okay, the next one is  
14 459, Observation 1. And this is a Paducah case.

15 For this particular case, we thought  
16 it was a little bit difficult to determine what  
17 should have been done for occupational medical  
18 dose, whether it should be assigned or not.

19 In this particular case, the TBD says  
20 that everyone received X-rays. However, in the  
21 CATI report the worker reports not having  
22 examinations. So no examinations were assigned.

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1 But had the worker not said anything this dose  
2 would have been assigned. So it was just an  
3 interesting thought problem for us that we  
4 thought was important to point out.

5 MEMBER MUNN: Yeah, it is. That's  
6 something you don't run across very often. I  
7 can see no reason why we shouldn't accept that  
8 closure suggestion for this observation. Anyone  
9 else?

10 CHAIR KOTELCHUCK: That's fine.

11 MEMBER BEACH: I agree.

12 MEMBER CLAWSON: Agree.

13 MS. GOGLIOTTI: Okay. Also another  
14 Paducah case, Tab 460, Observation 1. We've  
15 seen this one dozens of times and we're going to  
16 see it until we finish out the 21st set.

17 NIOSH used a Weibull distribution.  
18 We had not previously discussed it so we were  
19 asked to make it an observation until we had  
20 discussed it. We have since discussed it at  
21 length and we are okay with using it. So we  
22 recommend closure.

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1 MEMBER CLAWSON: Sounds good.

2 MEMBER BEACH: Agreed.

3 CHAIR KOTELCHUCK: Yes, absolutely.

4 By the way, I finally got onto -- I got into the  
5 Excel.

6 MEMBER MUNN: Here's where we are.

7 CHAIR KOTELCHUCK: I see where we  
8 are.

9 MEMBER MUNN: Do you want to take it  
10 over?

11 CHAIR KOTELCHUCK: Well, okay. I'd  
12 be delighted if you wanted to continue. But,  
13 sure, I'll take over.

14 MEMBER MUNN: Welcome back.

15 CHAIR KOTELCHUCK: And thank you very  
16 much. What happened was I basically went onto  
17 my CDC computer and got it to come up. But I  
18 couldn't get it to come up on my own personal  
19 computer.

20 So we just finished 460.

21 (Simultaneous speaking.)

22 CHAIR KOTELCHUCK: Okay, so 460 we

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1 just accepted as an observation.

2 MEMBER MUNN: Yes.

3 CHAIR KOTELCHUCK: And we're going to  
4 494?

5 MS. GOGLIOTTI: Correct. Observation  
6 1.

7 CHAIR KOTELCHUCK: Okay.

8 MS. GOGLIOTTI: And this is a Paducah  
9 and an Allied Chemical case.

10 And here the DR report said that a  
11 value of 1.91 was used when in fact they  
12 actually used a value of 2.

13 NIOSH agrees that the report should  
14 have stated 2 rather than 1.91. They believe  
15 that the dose reconstructor likely copied the  
16 text from a previous report. Since this was in  
17 fact a reworked case it doesn't impact anything  
18 in the text in the DR --

19 CHAIR KOTELCHUCK: Absolutely.  
20 Right. So this certainly is an observation.

21 MS. GOGLIOTTI: Yes, and that's how  
22 we have it listed.

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1 CHAIR KOTELCHUCK: Yes. Okay,  
2 accepted.

3 MEMBER CLAWSON: Yes.

4 CHAIR KOTELCHUCK: Good. Moving  
5 right along. It makes you feel like you're  
6 really getting a lot of work done when you go to  
7 Category 1, doesn't it?

8 MEMBER MUNN: Oh yes, it's great.  
9 Rose has already put it up for us.

10 CHAIR KOTELCHUCK: Right. Yes.  
11 Okay, 463.

12 MS. GOGLIOTTI: Okay, the next one  
13 here is Observation 1. It's a Portsmouth case.  
14 And we thought the recommendations from the TBD  
15 were unclear. And NIOSH responded that this  
16 issue had previously been discussed and is  
17 thoroughly recorded in the April 2004 meeting  
18 transcript, which was subsequent to our review  
19 of this case, in order to be fair. And based on  
20 that discussion we would recommend closure.

21 CHAIR KOTELCHUCK: Alright.

22 MEMBER BEACH: Agreed.

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1 MEMBER CLAWSON: Agreed.

2 MEMBER MUNN: Yes.

3 MS. GOGLIOTTI: Okay. Same case,  
4 Portsmouth 463.1. We felt that NIOSH assigned  
5 excessive missed dose for the years 1981 through  
6 '85.

7 And NIOSH did provide us with some  
8 additional guidance in the form of the DR  
9 guidance document and template. Keep in mind  
10 SC&A doesn't have access to the non-published DR  
11 guidance documents. And those documents did  
12 recommend what was done. And, of course, we  
13 recommend that guidance should be incorporated  
14 into the published TBD. But we do recommend  
15 closure.

16 CHAIR KOTELCHUCK: Closure. Is it  
17 not an observation?

18 MR. KATZ: Yeah.

19 CHAIR KOTELCHUCK: I believe it is.  
20 So we should close it, but I think it's an  
21 observation.

22 MR. KATZ: Right.

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1 (Simultaneous speaking.)

2 MS. GOGLIOTTI: They did it  
3 correctly. However, we just don't have access -  
4 -

5 (Simultaneous speaking.)

6 CHAIR KOTELCHUCK: Of course, of  
7 course. No fault of yours at all, but I think  
8 it's an observation.

9 MEMBER MUNN: Yes.

10 CHAIR KOTELCHUCK: Okay.

11 MS. GOGLIOTTI: And we'll go down to  
12 the next one, same case, Finding 2. NIOSH  
13 omitted doses for 19 X-ray exams listed in the  
14 DOE files. And NIOSH came back and said at the  
15 time that the dose reconstruction was completed.  
16 Omitting those exams was consistent with OTIB-  
17 79. But since then the TBD has been revised and  
18 those exams would now be included. And all  
19 cases affected by that are covered under PER-71.

20 CHAIR KOTELCHUCK: Right.

21 MS. GOGLIOTTI: And so based on that  
22 we recommend closure.

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1 CHAIR KOTELCHUCK: Right. And again  
2 closure as an observation.

3 MR. KATZ: No, Dave. That's actually  
4 a finding. I mean, they've updated and improved  
5 their methods, but what they used at the time  
6 they corrected. So that is a finding. It's  
7 wrong with that case.

8 CHAIR KOTELCHUCK: Omitted -- listed  
9 at the time of these exams was consistent with -  
10 ---

11 MR. KATZ: Yes, but it doesn't matter  
12 if it's consistent with their procedures at the  
13 time if the procedures at the time were wrong.  
14 And they updated them to improve them and now  
15 they include these. So you can surmise from  
16 that that the procedure was wrong and it should  
17 be a finding.

18 MEMBER MUNN: Essentially, this is  
19 one of those things that called attention to the  
20 fact that there was a flaw in the original  
21 document. And that really is a finding.

22 CHAIR KOTELCHUCK: I see, okay, thank

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1 you. Thank you for that clarification. Good,  
2 good. Okay, so, closed as a finding.

3 MS. GOGLIOTTI: The next one here is  
4 Tab 495, Observation 1. This is also a  
5 Portsmouth case. And it's an observation.  
6 While it was not cited in the DR report, we  
7 assume that the missed dose for '81 and '82 has  
8 a limit of detection consistent with the  
9 parameters for 1983 dosimeters and applied a  
10 quarterly missed dose for each year.

11 NIOSH agreed the current Portsmouth  
12 DR guidance document states to apply the '83 LOD  
13 for '81 and '82. This practice is written into  
14 their current DR report template and DR guidance  
15 documents, but of course that wasn't available  
16 to us.

17 CHAIR KOTELCHUCK: Okay. Alright.  
18 Good. Accept.

19 MS. GOGLIOTTI: The next one, same  
20 case, Observation 2. This is a professional  
21 judgment issue. NIOSH, I believe, assigned a  
22 50th percentile coworker, but we don't believe

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1 that was justified. We believe 95 percent might  
2 have been more appropriate, but it is of course  
3 a professional judgment call and wouldn't impact  
4 compensation either way. And this is an  
5 observation.

6 CHAIR KOTELCHUCK: Okay. Accept.

7 MS. GOGLIOTTI: Okay. Same case,  
8 Observation 3. Similar. We felt that the EE,  
9 they had the same job, in the same department  
10 from '70 to '74 and also from '75 to '78 and  
11 potentially beyond that. And the EE was  
12 monitored for internal exposure during several  
13 of those years where we thought that the  
14 application of a different coworker dose  
15 criteria for the two periods wasn't justified.

16 But again it's a professional  
17 judgment call and wouldn't impact compensation.  
18 And it is an observation.

19 CHAIR KOTELCHUCK: Okay. Anybody,  
20 Subcommittee Members, any concern?

21 MEMBER MUNN: No, that's right.  
22 That's a call.

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1 CHAIR KOTELCHUCK: Okay.

2 MS. GOGLIOTTI: Okay, same case,  
3 Observation 4. Says that the penetrating dose  
4 portion was not subtracted from the non-  
5 penetrating dose portion based on OTIB-17  
6 methodology for evaluating monitored -- or  
7 measured non-penetrating doses. The DR report  
8 appears to significantly overestimate the  
9 measured shallow dose.

10 And NIOSH does agree with that. The  
11 dose reconstructor selected the wrong thing in  
12 the workbook which resulted in shielded dose not  
13 being subtracted out from the open window dose.

14 Correcting for that does decrease the  
15 PoC but it's still above the compensation  
16 threshold. But we do recommend that that would  
17 be elevated to a finding also.

18 CHAIR KOTELCHUCK: Yes. Right, good.  
19 Sounds good. Okay. Closed.

20 MEMBER MUNN: That's all in the QA  
21 category?

22 MR. KATZ: Yes.

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1 CHAIR KOTELCHUCK: Alright.

2 MS. GOGLIOTTI: Okay, same case,  
3 Finding No. 1. The finding states that not all  
4 unmonitored photon dose was included for the  
5 year 1954. And after the review of documents  
6 that NIOSH cited in their response, we do concur  
7 with the start of operations.

8 However, these references aren't  
9 cited in the DR report and we couldn't locate  
10 evidence in the TBD for the start date of  
11 September of that year. And we just recommend  
12 that that information should be included in the  
13 approved documentation for the site and also be  
14 reflected in OTIB-40.

15 CHAIR KOTELCHUCK: Right. Would that  
16 not be an observation?

17 MR. KATZ: Yes.

18 MS. GOGLIOTTI: Okay. The next one  
19 is an X-10 case. It's 456, Observation 1. And  
20 this is a repeat of the Weibull distribution  
21 again, and so we do recommend closure.

22 MEMBER BEACH: Agreed.

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1 MS. GOGLIOTTI: Okay, the next case,  
2 Finding No. 1. And here the finding states that  
3 NIOSH may not have included the IREP for the  
4 ICRP-60 factor distribution. And this case was  
5 evaluated in early 2014 using the OTIB-12 dose  
6 correction factor, because this is before we  
7 started investigating Report-4.

8 Subsequent to this SC&A has developed  
9 a different procedure for reviewing CLL claims  
10 which were previously not included. Therefore,  
11 this case, we did not use the same tools as  
12 NIOSH did at the time, and by today's standards  
13 this should have been an observation.

14 CHAIR KOTELCHUCK: Yes. Right. So,  
15 this is an observation.

16 MEMBER MUNN: Observation closed.

17 CHAIR KOTELCHUCK: And closed. Good.

18 MS. GOGLIOTTI: Okay. Same case,  
19 Finding No. 2. And it's basically the same as  
20 the last one. It had to do with the CLL and us  
21 not being able to reproduce it.

22 CHAIR KOTELCHUCK: Right.

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1 MS. GOGLIOTTI: So, also reducing  
2 this to an observation.

3 CHAIR KOTELCHUCK: Yes. Observation  
4 accepted. 491.

5 MS. GOGLIOTTI: Okay, 491,  
6 Observation 1. This is an X-10 and K-25 case.  
7 There was a lack of consistency, or we felt that  
8 there might have been a lack of consistency, in  
9 X-10 X-ray machine filtration values.

10 NIOSH did provide us with additional  
11 information and we do understand what they've  
12 done and they are consistent. And based on that  
13 information we'd recommend closure.

14 CHAIR KOTELCHUCK: Good. Okay.

15 MS. GOGLIOTTI: The next one, same  
16 case, 491, Observation 2. And I think we've had  
17 this one before. PROC-61 and OTIB-6 do not  
18 agree on how gender should be treated with  
19 regard to the lung, I believe.

20 NIOSH agrees and PROC-61 is in the  
21 process of being revised and this will be  
22 corrected in the next revision.

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1 CHAIR KOTELCHUCK: Yes. Right.  
2 Observation because it was the correct thing at  
3 the time, which will be changed.

4 MS. GOGLIOTTI: They did it correctly  
5 and they applied the correct interpretation.

6 CHAIR KOTELCHUCK: At the time.

7 MS. GOGLIOTTI: However, the  
8 documents were inconsistent and if you used one  
9 or another you could get an incorrect value.  
10 But it was done correctly in this case.

11 CHAIR KOTELCHUCK: Yeah, okay.

12 MS. GOGLIOTTI: Okay, Finding No. 1,  
13 same case. NIOSH used an incorrect X-ray  
14 modifier for this particular area.

15 And NIOSH does agree that the 10  
16 percent dose should have been applied for 2006  
17 for this particular location. There was a copy  
18 and paste error in the worksheet. It doesn't  
19 impact compensation so we recommend closure.

20 CHAIR KOTELCHUCK: Yeah, okay.

21 MS. GOGLIOTTI: The next one here is  
22 the same case, Finding No. 2. NIOSH used an

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1 inappropriate X-ray lung dose. Here NIOSH used  
2 the male lung dose instead of the female lung  
3 dose for each of the cancers. It resulted in a  
4 (inaudible due to sirens) of the cancer sites  
5 with a smaller impact on the overall case and no  
6 impact on the compensation.

7 MR. KATZ: Dave had to mute.

8 CHAIR KOTELCHUCK: Yeah, I just had a  
9 fire engine go by. It just went off. But this  
10 is closed, is it not? Is it accepted, folks,  
11 that we close this?

12 MEMBER CLAWSON: Yes.

13 MEMBER BEACH: Yes.

14 CHAIR KOTELCHUCK: Okay.

15 MR. KATZ: I didn't catch the tail  
16 end of it. Is this a QA? What is this?

17 MS. GOGLIOTTI: This is a workbook  
18 error that's since been corrected, so I guess  
19 you could call it a QA error.

20 CHAIR KOTELCHUCK: Okay.

21 MS. GOGLIOTTI: Okay, we closed that  
22 one. We can go on here to the next one.

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1 CHAIR KOTELCHUCK: I think we may  
2 want to be closing in a little while and we need  
3 to have a little time to talk about our next  
4 meeting. So let's go on. Would people be open,  
5 let's go on for another 10 minutes until 4:30?

6 MEMBER MUNN: Yes.

7 CHAIR KOTELCHUCK: And then plan for  
8 our next meeting and then finish for the day.

9 MEMBER BEACH: Sounds good.

10 CHAIR KOTELCHUCK: Okay. Go ahead.

11 MS. GOGLIOTTI: Okay, Tab 457,  
12 Observation 1. It's an X-10, Y-12, and K-25  
13 case. It's an observation. The first paragraph  
14 in the DR report we felt was erroneous. It  
15 said, how we interpreted it to be, that onsite  
16 ambient dose was not assessed when it was in  
17 fact assessed, and we felt that that was perhaps  
18 a carryover from a previous dose reconstruction.

19 And NIOSH did clarify that that the  
20 sentence construction of the way it was written  
21 in the report could have been read that it was  
22 or was not done. With their clarification, we

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1 do recommend closure.

2 CHAIR KOTELCHUCK: Okay. I think  
3 that's clear-cut. Thank you. Next.

4 MS. GOGLIOTTI: Okay. Same case,  
5 Observation 2. The TBD contains conflicting  
6 column headings, multiple columns say --

7 (Simultaneous speaking.)

8 CHAIR KOTELCHUCK: Okay.

9 MS. GOGLIOTTI: NIOSH agrees. I  
10 believe that's already been corrected.

11 CHAIR KOTELCHUCK: Correct. And it's  
12 an observation and will be closed. Good.

13 MS. GOGLIOTTI: Okay, same case,  
14 Observation 3. Here, it's a little detailed,  
15 but for Pu at K-25 and Y-12 the recycled uranium  
16 was used. Therefore, according to OTIB-49, an  
17 adjustment factor for Type SS plutonium are not  
18 applicable.

19 However, they could be applicable for  
20 X-10. When we reviewed NIOSH's CADW intake  
21 values for Pu-239 Type S we found the DR used  
22 the X-10 value instead of the correct value for

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1 the years 1967 through '77.

2 Using the correct intake would  
3 increase the Type S Pu-239 dose. NIOSH agrees.  
4 The correct Pu-239 Type S intake values were  
5 assigned. And that the X-10 corrected values  
6 are still less than the dose that was used.

7 So we do recommend closure but also  
8 elevating this to a finding.

9 CHAIR KOTELCHUCK: Pardon? You do  
10 close what?

11 MS. GOGLIOTTI: We recommend  
12 elevating it to a finding.

13 MEMBER MUNN: It sounds reasonable  
14 given the degree of error.

15 CHAIR KOTELCHUCK: Yeah.

16 MEMBER BEACH: I agree.

17 CHAIR KOTELCHUCK: Okay.

18 MS. GOGLIOTTI: The next one, same  
19 case, Finding 3. NIOSH assigned one value  
20 instead of another value, without giving away PI  
21 information, for X-ray dose. You can see it on  
22 my screen. NIOSH agrees they should have used -

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1 -

2 CHAIR KOTELCHUCK: Good, good. And  
3 nice handling of that. Thank you. No, those  
4 are the kinds of things, it's very good people  
5 were aware of this. Anyhow, this is accepted.  
6 Right, folks? It is a finding.

7 MEMBER BEACH: Yes.

8 CHAIR KOTELCHUCK: Good. Alright,  
9 great. Next one.

10 MS. GOGLIOTTI: Okay. This is Tab  
11 458, Observation 1. It's an X-10, Y-12, K-25  
12 case. And it's a Weibull distribution again so  
13 we recommend closure.

14 CHAIR KOTELCHUCK: Okay.

15 MEMBER MUNN: Agreed.

16 CHAIR KOTELCHUCK: Okay. Yes, my  
17 vote, sure.

18 MS. GOGLIOTTI: Okay. The next one  
19 is Finding No. 2 from the same case. And this  
20 was kind of an unusual -- there were two  
21 different files in the EE's DOE files. One was  
22 the result as 2.44 nanocuries and the other

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1 listed the results as 244 nanocuries. So the  
2 difference of a decimal place.

3 Despite it being a big factor it  
4 doesn't really impact the dose that much. NIOSH  
5 used the lesser. We think it might have been  
6 more claimant-favorable to use the greater value  
7 when there was some uncertainty associated with  
8 the value.

9 But this is a historical dose  
10 reconstruction and we have no way of knowing the  
11 correct dose reconstruction value. It doesn't  
12 impact compensation so we do recommend closure.

13 CHAIR KOTELCHUCK: Why could we not  
14 verify what was the proper number where the  
15 decimal point should have been? We couldn't  
16 tell from the data that was given us. This was  
17 a measurement, is that it?

18 MS. GOGLIOTTI: Yes, it was a  
19 historical result, though.

20 CHAIR KOTELCHUCK: Okay.

21 MS. GOGLIOTTI: I would have to look  
22 into the year, but one was a handwritten value

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1 and one was a computer generated value. It was  
2 tough to know which one predated the other.

3 CHAIR KOTELCHUCK: Sure.

4 MS. GOGLIOTTI: And which was the  
5 correct.

6 MR. SIEBERT: This is Scott.  
7 Actually, I think it's relatively  
8 straightforward because the error in both of  
9 them were identical. The decimal point was not  
10 missing in the errors.

11 And when you look at the value in the  
12 errors it's 44 plus or minus .81, [which] makes  
13 a lot more sense and it's a type-written value  
14 where we can see the decimal. And the  
15 handwritten which, would be 244 plus or minus  
16 .81.

17 So I don't really think this was a  
18 determination of professional judgment. This  
19 was a determination as to which one seemed to be  
20 the logical answer. And we wouldn't make a  
21 claimant-favorable decision on that. We would  
22 pick the right number, which was pretty clear

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1 from the data.

2 CHAIR KOTELCHUCK: So the right  
3 number was used, which would mean that this  
4 would be an observation.

5 MEMBER MUNN: Sounds like it.

6 CHAIR KOTELCHUCK: Pardon?

7 MEMBER MUNN: Sounds like it to me.

8 CHAIR KOTELCHUCK: Yes. Good. I'm  
9 pleased that we could tell the difference  
10 between 2.44 and 244.

11 MEMBER MUNN: As their statement  
12 says, when in doubt you go one direction, but  
13 what we heard was there wasn't really any doubt  
14 if you looked at the reasonableness of the data  
15 you had.

16 CHAIR KOTELCHUCK: Good, good.  
17 Alright. Then No. 3.

18 MS. GOGLIOTTI: Okay, No. 3. NIOSH  
19 used the intake period of '93 through '99  
20 instead of '93 to 2000. NIOSH agrees the intake  
21 should have been assigned later through the date  
22 of the last whole body count. It does not

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1 impact compensation so we recommend closure.

2 CHAIR KOTELCHUCK: Okay. Yes. Okay,  
3 closed. And what would the next one be? We're  
4 kind of nearing the end.

5 MS. GOGLIOTTI: Yes.

6 CHAIR KOTELCHUCK: Here we go, 458.4.

7 MS. GOGLIOTTI: And the X-10, Y-12,  
8 and K-25 case. And the finding states that  
9 NIOSH did not analyze the results of lung count.

10 NIOSH came back and said that the  
11 whole body counts were evaluated but the lung  
12 counts were not considered to be routine  
13 monitoring in the DR's judgment. But further  
14 review was warranted. The ORAU team requested  
15 additional [data] for this timeframe from the  
16 site to determine exposure potential to Pu.

17 The data requested yielded the  
18 results of a urine sample in '96 based on an  
19 incident. This new information confirmed that  
20 dose reconstruction should have considered and  
21 assigned the Pu during that time frame.

22 The claim was reworked under the CAD

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1 system to consider this new information. And  
2 the final decision was on the same side of 50  
3 percent so it had no impact on compensation.

4 CHAIR KOTELCHUCK: Good, good. That  
5 was certainly a finding and we should close it.

6 Okay. Well, with this last burst of  
7 energy we threw a lot of -- as we said earlier,  
8 it always makes you feel good to be able to make  
9 judgments on a lot of cases. Proper judgments,  
10 appropriately considered and not rushed. Good.

11 Ted, when should we be thinking about  
12 our next meeting?

13 MR. KATZ: I'm just pulling up my  
14 calendar.

15 CHAIR KOTELCHUCK: Same.

16 MEMBER BEACH: Don't we still have a  
17 couple of more to go through or are we done?

18 (Simultaneous speaking.)

19 MEMBER BEACH: It looks like there  
20 are just three more.

21 CHAIR KOTELCHUCK: Really, there are  
22 only three more?

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1 MS. GOGLIOTTI: In this Type 1  
2 matrix.

3 CHAIR KOTELCHUCK: Oh, by all means,  
4 surely, surely. If there are only three, I'm  
5 open. Are other folks open?

6 MEMBER MUNN: Let's do it.

7 CHAIR KOTELCHUCK: Alright, yes.  
8 Good. So we will go back on the record to  
9 finish up. Go right ahead.

10 MS. GOGLIOTTI: 499, Observation 1,  
11 which is a Y-12 and K-25 case.

12 CHAIR KOTELCHUCK: Which one is that?  
13 499. Yes. Good. Thank you for pointing that  
14 out.

15 MS. GOGLIOTTI: And for this  
16 observation we found that the K-25 calculation  
17 workbook under the input tab lists a lapse for  
18 the year 1970 and this is incorrect according to  
19 the TBD.

20 NIOSH has agreed. The workbook has  
21 since been corrected and now shows the lapse  
22 began in 1971, which is consistent with the TBD.

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1 So based on that we recommend closure.

2 CHAIR KOTELCHUCK: Okay.

3 MR. KATZ: I missed something there.  
4 If there's an error in the workbook, why is that  
5 not a finding?

6 MS. GOGLIOTTI: I believe this should  
7 be a finding.

8 CHAIR KOTELCHUCK: Pardon?

9 MEMBER BEACH: Yeah, it's listed as  
10 an observation.

11 CHAIR KOTELCHUCK: This is a finding.

12 MR. KATZ: Okay, thanks.

13 CHAIR KOTELCHUCK: Okay.

14 MS. GOGLIOTTI: Okay, same case,  
15 Finding No. 1. NIOSH used the inappropriate  
16 surrogate organ for K-25 PFC and PA exams.

17 NIOSH said the dose reconstructor did  
18 not use the correct K-25 workbook to calculate  
19 occupational medical dose. They used an earlier  
20 version when they should have used a different  
21 version, the 2.03 rather than 2.0.

22 And they assigned dose to the

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1 eye/brain instead of an entrance skin dose.  
2 Using the 10 percent entrance skin dose the PoC  
3 would have increased potentially about 7  
4 percent. However, still not enough to flip the  
5 case. So we recommend closure.

6 CHAIR KOTELCHUCK: Okay. Good.

7 MS. GOGLIOTTI: Okay, and the final  
8 one is Tab 470, Finding No. 1. And this is a Y-  
9 12 and K-10 case.

10 And the finding states that NIOSH did  
11 not assign one organ Pu dose for the year 2000.  
12 NIOSH agrees the dose is not applied for the  
13 year 2000 for this particular organ. It doesn't  
14 impact the outcome of the claim and it appears  
15 to a cut-and-paste error or a QA error so we  
16 recommend closure.

17 MEMBER BEACH: Agreed.

18 CHAIR KOTELCHUCK: Okay.

19 MS. GOGLIOTTI: Okay, and that's all  
20 of them, for the Type 1's anyway.

21 CHAIR KOTELCHUCK: Very good. That's  
22 very good. Fine. Okay. So, let's look at our

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1 calendars. And Ted, you'll please lead us off  
2 on this.

3 MR. KATZ: Yes. One second. Okay,  
4 where are we.

5 CHAIR KOTELCHUCK: We are meeting in  
6 late August ourselves, the Board.

7 MR. KATZ: That's the Board. Okay.  
8 So let me just go -- we're at June 27th. Okay.  
9 So the soonest we could meet would be the week  
10 of September 11.

11 CHAIR KOTELCHUCK: Pardon?

12 MR. KATZ: The week of September 11th  
13 is the soonest we could meet. We'll work from  
14 there forward in terms of your availability.

15 CHAIR KOTELCHUCK: Right. Now we're  
16 going to September. Some of us have Jewish  
17 holidays. I don't have them listed. Do you,  
18 Ted? Do you have them in your book?

19 MR. KATZ: Unfortunately they're not  
20 on my calendar here.

21 CHAIR KOTELCHUCK: I think there's  
22 some way they may be --

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1 MR. KATZ: If someone has a Google  
2 calendar.

3 MEMBER BEACH: I have one on the  
4 20th.

5 MR. KATZ: What's on the 20th?

6 MEMBER BEACH: Yeah, there's a --

7 CHAIR KOTELCHUCK: [identifying  
8 information redacted]

9 MEMBER BEACH: Yes.

10 CHAIR KOTELCHUCK: Good. If  
11 [identifying information redacted] is on the  
12 20th then the [identifying information redacted]  
13 is the 28th.

14 MEMBER BEACH: Yom Kippur is on the  
15 29th.

16 CHAIR KOTELCHUCK: Twenty-ninth,  
17 okay. So the week of the 11th is fine in terms  
18 of holidays. Let me see.

19 MR. KATZ: I need multiple options  
20 because I think we've lost David as well as we  
21 don't have John Poston.

22 MR. CALHOUN: This is Grady and we

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1 tentatively have an outreach meeting planned for  
2 Jacksonville, September 12th and 13th.

3 CHAIR KOTELCHUCK: I'll tell you, the  
4 following week is much better for me.

5 MR. KATZ: The week of the 18th?

6 CHAIR KOTELCHUCK: The week of the  
7 18th. The only problem would be that Wednesday  
8 for Rosh Hashanah.

9 MEMBER KATZ: Okay, how about the next  
10 week?

11 MEMBER BEACH: That's good.

12 CHAIR KOTELCHUCK: So I'm available  
13 the 18th, 19th, 20th before sundown and 22nd.

14 MR. KATZ: Okay, how's the 19th or  
15 the 20th?

16 MS. GOGLIOTTI: I am not available  
17 the 19th.

18 MR. KATZ: Okay, how about the 20th?

19 MEMBER BEACH: I'm good the 20th.  
20 How about the 18th?

21 MR. KATZ: Well, yeah, I try to avoid  
22 Mondays just because there tends to be other

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1 stuff going on.

2 CHAIR KOTELCHUCK: How about the  
3 22nd, a Friday?

4 MR. KATZ: We need multiple options  
5 anyway, so if you want to pick a couple of these  
6 days.

7 CHAIR KOTELCHUCK: Okay. Certainly  
8 9/20 appears to be good for those here. The  
9 second one, if we want to we could look at the  
10 next week, if you don't want the 18th or the  
11 22nd.

12 MR. KATZ: There's nothing wrong with  
13 the 22nd if that's okay with everyone else.

14 MEMBER MUNN: What was wrong with the  
15 19th?

16 CHAIR KOTELCHUCK: Josie couldn't  
17 make it.

18 MEMBER BEACH: No, Rose.

19 MS. GOGLIOTTI: Rose, I'm not  
20 available.

21 MEMBER BEACH: Yes, and I prefer to  
22 not do Fridays if possible.

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1 CHAIR KOTELCHUCK: Okay, let's go  
2 into the next week then. What about the 27th?  
3 The next Wednesday.

4 MR. KATZ: And when was the holiday  
5 that week?

6 CHAIR KOTELCHUCK: The holiday is on  
7 the 28th.

8 MEMBER BEACH: Twenty-ninth.

9 CHAIR KOTELCHUCK: The 29th, which  
10 means that we can meet on the 27th or 28th.

11 MEMBER BEACH: Or 26th.

12 CHAIR KOTELCHUCK: Right. Among the  
13 three days, 26, 27, 28, what are preferences?  
14 We could pick two.

15 MEMBER BEACH: Any of them are fine  
16 with me.

17 CHAIR KOTELCHUCK: Any of them are  
18 fine with me.

19 MR. KATZ: Okay, and Brad?

20 MEMBER CLAWSON: Yes, I'm just  
21 waiting for everybody to choose. I can work  
22 about anything in.

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1                   MR. KATZ:  Why don't we say that then  
2                   the 20th will be option one, and then 26th,  
3                   27th, 28th, will be options two, three, and four  
4                   after I hear back from Dave and John.

5                   CHAIR KOTELCHUCK:  That sounds good.

6                   (Simultaneous speaking.)

7                   MR. KATZ:  With the 20th being the  
8                   preferred one.

9                   CHAIR KOTELCHUCK:  Yes.

10                  MEMBER BEACH:  Sounds great.

11                  CHAIR KOTELCHUCK:  Very good.  Folks,  
12                  thank you.  Long day.  We got a lot  
13                  accomplished.

14                  **Adjourn**

15                  MR. KATZ:  Thanks for all the good  
16                  work.

17                  CHAIR KOTELCHUCK:  Thank you all.

18                  MEMBER BEACH:  Thanks.

19                  CHAIR KOTELCHUCK:  Okay, bye-bye.

20                  (Whereupon, the above-entitled matter  
21                  went off the record at 4:37 p.m.)

22

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