

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

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SUBCOMMITTEE ON PROCEDURES REVIEW

+ + + + +

TUESDAY
JANUARY 10, 2017

+ + + + +

The Subcommittee convened via teleconference at 11:00 a.m. Eastern Time, Wanda Munn, Chair, presiding.

PRESENT:

- WANDA I. MUNN, Chair
- JOSIE BEACH, Member
- JOHN W. POSTON, SR., Member
- PAUL L. ZIEMER, Member

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ALSO PRESENT:

TED KATZ, Designated Federal Official
DAVE ALLEN, DCAS
ROBERT ANIGSTEIN, SC&A
BOB BARTON, SC&A
HANS BEHLING, SC&A
KATHY BEHLING, SC&A
RON BUCHANAN, SC&A
ZAIDA BURGOS, NIOSH
ROSE GOGLIOTTI, SC&A
STU HINNEFELD, DCAS
PATRICIA JESKE
JENNY LIN, HHS
LORI MARION-MOSS, DCAS
JOHN MAURO, SC&A
DAN MCKEEL
JIM NETON, DCAS
JOHN RAMSPOTT
MUTTY SHARFI, ORAU Team
SCOTT SIEBERT, ORAU Team
MATT SMITH, ORAU Team
JOHN STIVER, SC&A
ELYSE THOMAS, ORAU Team

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1

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

2

11:03 a.m.

3

Welcome and Roll Call

4

MR. KATZ: Welcome, everyone. This

5

is the Advisory Board on Radiation Worker Health.

6

It's the Procedures Review Subcommittee. And we

7

have three Members present. Wanda Munn is Chair,

8

and Paul Ziemer, and Josie Beach.

9

Let me cover their conflicts, and

10

they're the only ones we have to address

11

conflicts for, for this Subcommittee meeting.

12

But Josie, Josie Beach and Wanda Munn both have

13

a conflict with respect to discussing Hanford

14

matters. I don't believe there are any Hanford

15

matters today. And Dr. Ziemer, his limited

16

restrictions regard X-10. I'm not sure if

17

there's any X-10 matter today, and also after

18

2000, LANL, Los Alamos, but only after the year

19

2000. So I'm not sure that comes up.

20

So let's go along then with roll call.

21

Let's start with the ORAU team. Oh, and let me

22

mention also while I'm here, because it may be

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1 harder to get to it later, at 2:30 we're going to
2 be discussing Program Evaluation Report reviews
3 by SC&A, and the first one, which we hope to start
4 pretty much at 2:30, is on GSI. It's PER 0057.
5 And for that call, Dr. Poston, who is also on the
6 Board, will join us. And Dr. Poston has a
7 variety of conflicts, but no conflict with
8 respect to GSI. So that will happen this
9 afternoon.

10 And the agenda for today's meeting is
11 posted on the NIOSH website under scheduled
12 meetings, today's date, and so you can see that
13 agenda. And that has a presentation for GSI,
14 which was Privacy Act reviewed-cleared by Jenny
15 -- thank you, Jenny -- to the two folks on the
16 line, that will be on line, at least this
17 afternoon, who have interest in that, the public
18 members like Dr. McKeel and Mr. John Ramspott.
19 So they have that presentation, and they can
20 follow along with that.

21 So let's now go to roll call.

22 (Roll call.)

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1 MR. KATZ: And with that, with no
2 further ado, Wanda, it's your meeting.

3 CHAIR MUNN: Thank you much, Ted.
4 Let's take a look at the agenda before we get
5 underway here. Most of it will run pretty much
6 as expected. As Ted has already mentioned, we'll
7 try to keep the 2:30 PER 57 schedule to the extent
8 that we can.

9 There's one small piece of addition
10 that needs to go down at the bottom. We have a
11 block of Subtask Four reports that did not get to
12 the agenda that we should have. We will have the
13 Subtask Four reports that cover PER 55, 060
14 that's Blockson, I think, and 064, DuPont
15 Deepwater, and 066, Huntington, I believe. So
16 we will add those, if time permits, at the tail
17 end.

18 **Review BRS Status**

19 CHAIR MUNN: Other than that, let's
20 talk for a little bit about the BRS status. I
21 have not personally checked all of the closures
22 that we made last meeting, which were going to be

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1 added for us. There was a commitment for OTIB-
2 0060 that we closed last time, internal dosimetry
3 TIB, that Stu Hinnefeld was going to provide
4 words for us for closing item three on that
5 particular OTIB and was going to sign off on that.
6 That's been done. So to the best of my
7 knowledge, OTIB-60 is now completely off of our
8 agenda, which is a good thing.

9 With respect to the others, I've only
10 spot-checked a couple of the closures. Lori and
11 I assume Kathy, who did most of those wrap-ups
12 after the fact, will give us a quick rundown
13 whether there's anything outstanding, to the best
14 of your knowledge, of whether we have covered and
15 now have properly recorded all of the closure
16 status that we completed last time.

17 Lori? Are you on mute? Not hearing
18 you. So Kathy?

19 MS. K. BEHLING: Yes, I'm here. I
20 have updated the BRS with all of the PERs that we
21 have completed, and you just mentioned some of
22 them. And I think, as we go through here, I was

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1 hoping to actually bring up the BRS while we're
2 talking about these various outstanding findings
3 and OTIBs and PERs. However, I'm not sure how
4 to do that.

5 CHAIR MUNN: I had trouble doing it,
6 too, because I have less than three screens.
7 Well, let me very quickly run down a few that I
8 have noted. I had OTIB-13, which had been
9 superceded. And OTIB-29, we had three on there
10 that we closed. OTIB-32 --

11 MEMBER BEACH: Wanda, could you speak
12 up just a hair?

13 CHAIR MUNN: Okay.

14 MR. KATZ: I'm sorry. Let me
15 interrupt a second. Zaida, are you still on the
16 line?

17 MS. BURGOS: Yes, I will call.

18 MR. KATZ: Okay, yes, thank you.

19 MS. MARION-MOSS: Wanda, this is
20 Lori. I'm back.

21 CHAIR MUNN: Oh, good. Glad to hear
22 it. Kathy and I were just starting through the

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1 ones that I believe Kathy has probably closed.
2 She was trying to pull the BRS up on her screen
3 and was having the same problem I usually have
4 trying to get two things up at the same time on
5 the same screen. I was just saying that those
6 that I had noted that were outstanding to be
7 closed offline were OTIB-13, 29, 33, TIB-14,
8 ORAUT-OTIB-39, and TIB-50. And I've already
9 mentioned OTIB-50. So those were the ones I had
10 on my list, but there may be others.

11 Kathy, are you giving up?

12 MS. K. BEHLING: No. And as I said,
13 I was going to try to pull some of these up as we
14 talk about them on Skype. If somebody can give
15 me a show-and-tell perhaps or tell me how I go
16 about doing that. Ted or Zaida?

17 MS. BURGOS: Kathy, I think at the
18 bottom of the conversation screen you pulled up,
19 there's a little picture of a computer monitor.

20 MS. K. BEHLING: Okay. As a guest,
21 can I do that?

22 MS. BURGOS: You can try. I don't

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1 know. I'm new to Skype, too.

2 MS. K. BEHLING: I'm not doing very
3 well here.

4 MS. BURGOS: You're presenting now.
5 I have a picture of your desktop.

6 MS. K. BEHLING: Okay. I don't see
7 that.

8 MS. BURGOS: Well, I think that you're
9 sharing your screen with us now, and so you're
10 not going to see. We'll just see what you're
11 doing.

12 MS. K. BEHLING: Okay.

13 MS. BURGOS: Like now we see your
14 email.

15 MS. K. BEHLING: Al

16 Alright. Let's see if I can -- okay.
17 That's not going to do it. Hold on one second.

18 MR. KATZ: While Kathy is struggling
19 through this, let me just note again for
20 everybody we just had to cut another line because
21 someone put us on hold and we were hearing their
22 audio, you know, the background music or in this

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1 case it was a beep. But, please, no one on this
2 line should be putting the call on hold at any
3 point. Hang up and dial back in if you need to
4 go for a piece. Thanks.

5 MS. K. BEHLING: Okay. Are you
6 seeing the PERs?

7 MS. BURGOS: Yes.

8 MS. K. BEHLING: Okay. And, Wanda,
9 other than the PERs that were submitted and the
10 PER subtasks four reports that were submitted, I
11 don't have anything else to add. And I think you
12 did mention those earlier that we're prepared to
13 talk about PER -- let's see, where's my list here?
14 PER 55, which is OTIB-6000 -- TBD-6000. PER 60,
15 which is Blockson. PER 64, DuPont Deepwater, and
16 PER 66, Huntington, that were not included on
17 your agenda. So as we work through the agenda,
18 I can try and pull up the various findings and
19 ensure that the BRS has been updated, if that's
20 what you'd like to do. Are you hearing me?

21 MR. KATZ: Yes, Kathy, we're hearing
22 you. I mean, that's good. I don't think you

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1 need to show us the BRS just to prove you've
2 updated it but --

3 MS. K. BEHLING: No, the only thing I
4 was thinking is that the agenda maybe lists an
5 item and says finding number two, and if I could
6 bring up on --

7 MR. KATZ: Oh, yes, for sure. If
8 we're discussing one, for sure.

9 MS. K. BEHLING: Yes, that's why I
10 brought it up because there's obviously not a lot
11 of detail in the agenda, which is the appropriate
12 thing to do.

13 MR. KATZ: Right. Thanks, Kathy.
14 So, Wanda, are you back? It seems like we've
15 lost Wanda again. This is --

16 MS. K. BEHLING: Because I think the
17 first item on the agenda, obviously, she has down
18 here is the OTIB-29. However, I believe she also
19 wanted to give Lori an opportunity to chime in or
20 add to anything that she's included on the BRS.

21 MR. KATZ: Right.

22 MEMBER ZIEMER: Is it safe to say that

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1 BRS is up to date because of the action with --
2 (telephonic interference)

3 MR. KATZ: And Kathy's saying that --
4 right, Kathy? You guys have updated everything
5 that you have on your plate, right?

6 MS. K. BEHLING: Yes.

7 MR. KATZ: Yes.

8 MEMBER ZIEMER: Okay. So those items
9 that we closed out last time had been reflected
10 on the BRS?

11 MS. K. BEHLING: That's correct.

12 MR. KATZ: Okay. Good, thanks.
13 Well, Wanda said she was having trouble with her
14 phone system. I'm sure she realizes that she's
15 offline.

16 CHAIR MUNN: This is Wanda. Can you
17 hear me?

18 MR. KATZ: Yes, you're back.

19 CHAIR MUNN: Oh, yes. I was unaware
20 of the fact that I had been cut off, I guess.

21 MR. KATZ: Well, it was your -- we did
22 cut a line because they had put the call on hold

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1 and we were getting their hold sign. I don't
2 think that should have been you, but.

3 CHAIR MUNN: No, it wasn't. I was
4 hearing that, and I continued to hear everything
5 that was being said but suddenly Kathy was asking
6 whether I was there and I was saying, yes, I'm
7 here, I'm here.

8 MR. KATZ: Oh, so it sounds like you
9 were muted but not offline.

10 CHAIR MUNN: Yes, I wasn't muted. I
11 was completely offline. But in any case, we're
12 back and has anything transpired in my notable
13 absence?

14 MR. KATZ: Oh, Kathy said that
15 everything is updated, as far as what was on
16 SC&A's plate, as to updated closings from the
17 last meeting.

18 CHAIR MUNN: Yes, that's good. Thank
19 you, Kathy. I appreciate that. And I was trying
20 to call for Lori to verify that there was nothing
21 outstanding in her basket, but, whatever we're
22 doing, I think we can move on from BRS. I believe

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1 that we've double-checked enough of the things
2 that we needed to take a look at.

3 We have -- and one other thing before
4 we leave. My apologies for a couple of notes on
5 the agenda. I have uploaded a great deal of
6 material that says things have transpired offline
7 since I first put together the agenda, and a
8 number of those items are actually SC&A items
9 because NIOSH has fulfilled their obligation to
10 provide whatever they were going to provide and
11 SC&A has since provided reports on the activity
12 status in the interim. So you will see that
13 occur several times, especially this afternoon.

14 **Y-12 - OTIB 0029, Finding 4**

15 CHAIR MUNN: But for the time being,
16 we're talking about Y-12 -- OTIB-29, Finding
17 Number 4. There was one outstanding item there,
18 and it is, I believe, the NIOSH action. Stu?

19 MR. HINNEFELD: Yes, I'm here
20 finally. Jim, are you on?

21 DR. NETON: Yes, I'm on. Is Lori on?
22 She's seems to be dropping in and out.

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1 CHAIR MUNN: She was on earlier, but
2 I was --

3 DR. NETON: Lori, are you on the
4 phone?

5 MS. MARION-MOSS: I'm back.

6 DR. NETON: Alright. Well, I think
7 this one I have the lead on anyway, so I'll
8 respond. There were five findings. This was
9 originally on OTIB-29, which is the Y-12 internal
10 dose coworker model. Finding 4 is the only one
11 that's listed as, I think it's in progress.

12 CHAIR MUNN: Yes, I think so.

13 DR. NETON: I thought when we
14 discussed this the last time that this one had
15 been closed or we had responded to it. I went
16 back and evaluated the record pretty thoroughly,
17 and we did provide a response. There was some
18 communication between Joyce Lipsztein and Dave
19 Allen. This is regarding these Monday morning
20 samples.

21 CHAIR MUNN: Exactly, yes.

22 DR. NETON: The Site Profile --

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1 actually, TIB-29 has since been canceled, but the
2 relevant issue has been transferred into the Y-
3 12 TBD, Section 5 of the Y-12 TBD, the internal
4 dose section. So the finding still remains.

5 I thought that we had addressed it.
6 There was some communication between Dave Allen
7 and Joyce Lipszstein regarding this issue about
8 how maybe if they only took Monday morning
9 samples the coworker model would underestimate
10 intakes. Dave Allen went back and analyzed the
11 data and determined that a large percentage, I
12 think something like 30 to 40 percent, were
13 actually not taken on Monday. They were taken
14 during the regular work week, which would tend to
15 mitigate the effect of only taking samples on
16 Monday.

17 Dave had proposed a path forward to
18 analyze this in light of using a coworker model,
19 and, honestly, I cannot find where that issue was
20 addressed. We think it happened, but none of us
21 can find it, so we need to go back and either, if
22 we can't find it, we'll have to re-do that

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1 analysis. So that's where we stand right now.
2 This is going to remain open until we can complete
3 the loop on this.

4 CHAIR MUNN: Yes, thank you, Jim.
5 That, essentially, is the understanding that I
6 had. We had multiple discussions about this
7 earlier in past meetings, and it was my feeling
8 that, philosophically, it had been taken care of,
9 and we all remember, I think, that Dave did a
10 significant amount of work tracking it down. But
11 I could not find any closure on it and certainly
12 at the last meeting we didn't have closure in
13 terms of verifying that any document changes that
14 were necessary were being made or had been made.

15 So I'll continue to carry that over
16 until we can track down what's been done. It may
17 be easy to close it, but I don't have any record
18 of the document that I'm aware of.

19 DR. NETON: We'll try to have this
20 buttoned up by the next, the next meeting.

21 **OTIB-32 - Status Report on Protocol Review**

22 CHAIR MUNN: Good. Appreciate that.

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1 Thanks. Next item that we have is OTIB-32, and
2 I think that, I think SC&A understands that we
3 don't expect any long or in-depth discussion
4 about this. But at our last meeting, when we
5 talked about this external coworker document,
6 there was a question left as to how SC&A intended
7 to address the change in their protocol because
8 their current protocol review instructions still
9 have them expecting to follow a path that we no
10 longer follow. Is that a reasonable summation,
11 Kathy?

12 MS. K. BEHLING: Yes, it is. In fact,
13 we did close the finding, and it's strange that
14 this falls under the Savannah River Site external
15 coworker. But what happened during the process
16 of talking about this finding, we went into the
17 fact that we used to use or, initially, our
18 protocol called for the identified review
19 objective. There were seven review objectives,
20 and we actually developed a table so that all of
21 our reviewers would ask the same type of
22 questions for each of the documents we were

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1 reviewing. However, that initial protocol was
2 established back in 2004, so we've obviously
3 changed things and changed the approach that
4 we're using to a more narrative approach that
5 looks at all of the aspects of whatever document
6 we're reviewing.

7 I wasn't quite sure, I didn't have it
8 in my notes that we were being tasked to rewrite
9 that, but it is no longer being used and we can
10 certainly make modifications to that protocol or
11 that procedure if that is what you'd like us to
12 do.

13 CHAIR MUNN: My personal feeling is
14 that a simple note in your procedure saying that
15 there's this particular aspect of protocol is no
16 longer necessary and no longer an active
17 requirement. I think just a simple statement to
18 that effect would satisfy any concerns that
19 anyone might have.

20 Is there any objection to that
21 suggestion to SC&A?

22 MEMBER BEACH: No, none here, Wanda.

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1 CHAIR MUNN: Okay. Paul?

2 MEMBER ZIEMER: Yes, I have none. I
3 think we agreed last time that this is no longer
4 -- it had been a finding --

5 CHAIR MUNN: Yes, that's correct. We
6 did agree. We just did not take any suggested
7 action. If you can take that under advisement,
8 Kathy, I think that will relieve our concerns
9 with respect to OTIB-32, and we can just move
10 forward, not just the OTIB but with respect --
11 you're right. It's odd that a protocol review
12 issue falls under Savannah River but --

13 MS. K. BEHLING: Okay, that's fine and
14 not a problem. If I could interject something
15 else here with regard to making changes to our
16 protocols or our procedures. One of the other
17 things that still is in the back of my mind is
18 our PER procedure, review procedure, has these
19 five subtasks, and we always follow subtask one
20 through four with four being, you know, the
21 review of selected cases. But five states that
22 we're going to write reports, yes, complete

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1 report, which we don't do. We really do an
2 initial report that covers pretty much subtasks
3 one through three, and we suggest how many cases
4 we may want to review under subtask four, and
5 then we write a report on that PER and then we
6 write a second report for the subtask four, if we
7 are tasked to do that. And that would just
8 require a very minor change to that procedure,
9 but I think -- would you like us to make that
10 change, also?

11 CHAIR MUNN: My knee-jerk reaction is
12 yes. I think it's, certainly in my mind and
13 perhaps in the minds of others, as well, subtask
14 five was taken care of by the report that you
15 give us on subtask four. But if that's not, if
16 that's not the view that others have, we probably
17 should have that brief discussion right now.

18 MS. K. BEHLING: Okay. And it would
19 be a very simple change. I just thought about
20 it as we're talking about this, but go ahead.
21 I'm sorry.

22 CHAIR MUNN: Yes, that's fine.

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1 MEMBER ZIEMER: It would basically be
2 two reports instead of one overall report.
3 You're accomplishing an objective --- (telephonic
4 interference)

5 MS. K. BEHLING: Correct.

6 CHAIR MUNN: Yes, I think that kind
7 of status is quite accurate. Josie?

8 MEMBER BEACH: I agree with that,
9 also.

10 CHAIR MUNN: I think it's certainly
11 within our purview to state that, from this
12 Subcommittee's purview in any case, your report
13 on subtask four that you give to us should be
14 adequate for purposes of meeting your requirement
15 for subtask five.

16 MS. K. BEHLING: Okay, very good. I
17 didn't want to have any confusion there.

18 CHAIR MUNN: Yes, I believe that's the
19 case. You can say that we've discussed it and
20 reached consensus here, in the Subcommittee in
21 any case.

22 MS. K. BEHLING: Okay, very good.

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1 **ORAU OTIB-0014 - Correct Canceled List Status**

2 CHAIR MUNN: Thank you. OTIB-14. We
3 were going to make some, there was a confusion,
4 as I recall, between documents, reference
5 documents, with respect to the status of 14.
6 It's been canceled, and most everybody knows it's
7 been canceled, but it did not appear on the
8 canceled list, as I recall. And we also had one
9 outstanding finding, number 3, in vivo counts.
10 NIOSH?

11 MS. MARION-MOSS: Wanda, this is
12 Lori. As I recall, there was some question about
13 TIB-14 appearing on the NIOSH website, appearing
14 as if it was still an active document. And one
15 of our actions was to go out and correct that on
16 the NIOSH website. So that has been corrected,
17 and it shows up, TIB-14 shows up as being a
18 canceled document.

19 CHAIR MUNN: Okay, that's fine. My
20 memory was that it was already listed on the
21 canceled list but was not taken off the web. Is
22 that a correct --

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1 MS. MARION-MOSS: That's correct.

2 CHAIR MUNN: Yes. But now it's been
3 taken off the web, and it remains on the canceled
4 list, so there can be no confusion as to its
5 status, correct?

6 MS. MARION-MOSS: Correct.

7 **ORAU OTIB-0014 - Finding 3 In Vivo Count Issues**

8 CHAIR MUNN: Good. What about
9 Finding 3?

10 MS. MARION-MOSS: Finding 3, that's
11 in regards to the Rocky Flats TBD, I believe.
12 And as it's stated here --

13 CHAIR MUNN: That was internal
14 coworker at Rocky Flats.

15 MS. K. BEHLING: Yes, this is Kathy
16 Behling. Are you able to see the screen that I'm
17 hopefully displaying that shows OTIB-14 Finding
18 3?

19 CHAIR MUNN: Yes, we are.

20 MS. K. BEHLING: Okay. Because it
21 does show there we were questioning why the TBD
22 didn't explain why there was no americium

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1 coworker model. I think that's the outstanding
2 finding.

3 MS. MARION-MOSS: Yes, it is. And
4 NIOSH has taken a look at this and realized that
5 that is something that was not updated in the
6 revision, so that has been slated to be included
7 in the TBD during the next revision.

8 MEMBER ZIEMER: Is that part of --

9 MS. K. BEHLING: Pardon me?

10 CHAIR MUNN: What did you say, Paul?

11 MEMBER ZIEMER: Sorry. I went back
12 on mute. Is that part of TBD-115 now?

13 MS. K. BEHLING: The Rocky Flats TBD?

14 MEMBER ZIEMER: I'm not sure. I had
15 it in my notes that it's a finding that would be
16 handled through TBD-115.

17 DR. NETON: I think that's TBD-11-
18 Section 5.

19 MEMBER ZIEMER: I had 115.

20 DR. NETON: Yes, sorry. It's TBKS-
21 011-5. That's the internal dose kit for Rocky
22 Flats. Excuse me, TBD.

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1 MEMBER ZIEMER: Yes, thank you.

2 CHAIR MUNN: So this goes into
3 abeyance then. We can take it off our active
4 list, and you get to add it to your abeyance list.
5 That's good. It's now yours. Thank you.

6 Let's move on to OTIB-39 if we're
7 happy with the status of Finding 3 and TIB-14.

8 MR. KATZ: Could I just ask, Wanda,
9 for a clarification about this?

10 CHAIR MUNN: Yes.

11 MR. KATZ: With these in abeyance, is
12 this, I imagine they don't have to tell us, but
13 is this, the americium bottle, is this something
14 that SC&A has already seen and reviewed and will
15 end up in the Site Profile, or is it something
16 that needs to be added and, hence, after that
17 will be reviewed by SC&A?

18 MS. K. BEHLING: This is Kathy
19 Behling. I believe it's something that's going
20 to have to be added and then reviewed.

21 MR. KATZ: Okay. So it really is not
22 an abeyance because we don't have agreement about

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1 its content even. We just have agreement that
2 it needs to be added, so we don't have agreement
3 about how that -- right? Is that correct?

4 MS. K. BEHLING: Correct.

5 CHAIR MUNN: Oh, thank you. I did
6 not recognize that fine point. So the question
7 then becomes are we continuing to carry that
8 here, or do we carry it as a TBD item?

9 MR. KATZ: Well, yes. I mean,
10 typically, the Work Groups handle Site Profile
11 reviews.

12 CHAIR MUNN: Right.

13 MR. KATZ: I'm not sure why this one,
14 how this one wound its way into -- maybe because
15 of its original source.

16 CHAIR MUNN: Yes, I think the original
17 source was out of the coworker internal.

18 MR. KATZ: So I think what we want to
19 do is keep this in progress here, and SC&A can
20 send a little memo to the Rocky Flats Work Group
21 just saying to put this on, basically, so to put
22 Dr. Kotelchuck on notice that we have the Site

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1 Profile element that will need to be reviewed
2 when it's completed by NIOSH.

3 CHAIR MUNN: Okay.

4 MR. KATZ: Is that okay, Wanda?

5 CHAIR MUNN: Yes, right. And then it
6 goes --

7 MR. KATZ: And then we can close this
8 out after that's been done, which is sort of, it
9 still sits under our --

10 CHAIR MUNN: Right, okay. That's
11 fine. Thank you. I do appreciate that. I did
12 not recognize that fine point, frankly. And it
13 was just dropped out of active notice, so thanks.

14 MS. MARION-MOSS: Wanda, this is
15 Lori. Based on that conversation, do we want to
16 update the BRS to reflect what Ted has just said?

17 CHAIR MUNN: Absolutely, yes.

18 MR. KATZ: Yes, please, Lori.

19 CHAIR MUNN: Yes, that's crucial.
20 That's our link that takes us over to the Work
21 Group and then to the document itself. But
22 somebody else has to do it, so that's good. Will

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1 you take care of that for us, Lori?

2 MS. MARION-MOSS: Yes.

3 CHAIR MUNN: Put the right words in.
4 Thanks.

5 MS. MARION-MOSS: Okay.

6 MEMBER ZIEMER: Are we talking about
7 Finding 3 in OTIB-139?

8 CHAIR MUNN: No, we're talking about
9 Finding 3 in OTIB-14.

10 MEMBER ZIEMER: Okay.

11 CHAIR MUNN: I mean, not OTIB, in TIB-
12 14, yes.

13 MS. K. BEHLING: I was too quick to
14 go on the new screen. Sorry.

15 CHAIR MUNN: That's okay. That's
16 quite alright. That's appreciated. We'll take
17 care of the wording on that and get it
18 appropriately handled, and SC&A will see to it
19 that Dave Kotelchuck, Dr. Kotelchuck and his
20 Rocky Flats Work Group understand that they have
21 that item.

22 MR. KATZ: Yes. And John Stiver just

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1 consider this tasked since this is really just an
2 extension of --

3 MR. STIVER: Okay. Will do.

4 MR. KATZ: -- consideration. Thanks.

5 **ORAUT-OTIB-0039 - Finding 3 Abeyance Status**

6 CHAIR MUNN: Thanks, John. Onto
7 OTIB-39 Finding 3. I don't know. Lori, you may
8 already have this in your list, if we ever get to
9 that list, in our administrative detail with
10 respect to abeyance statuses. I put a couple of
11 them in our active list just because they were
12 items that I didn't want to put back up. How are
13 we standing with OTIB-39 Finding 3?

14 MS. MARION-MOSS: We're still working
15 on that, Wanda, so we don't have anything to add
16 today.

17 CHAIR MUNN: Alright. So I'm going
18 to take it off my active list with the assurance
19 that it is on your abeyance list.

20 MS. MARION-MOSS: Yes, ma'am.

21 CHAIR MUNN: Alright. Again, we will
22 not look at that next time. We'll just assume

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1 that it's being tracked appropriately under the
2 abeyance statuses.

3 **ORAUT-OTIB-0060 - Finding 2 Abeyance Statues**

4 CHAIR MUNN: The next item we have on
5 our agenda OTIB-60 Finding 2. That's like the
6 one we just looked at, Lori. This is another one
7 from your abeyance status list.

8 MS. MARION-MOSS: Here, too, we're
9 still working on that particular document, and we
10 don't have anything to report today.

11 CHAIR MUNN: Alright. That's very
12 good. It also is going to drop off our active
13 list now under the assurance that it's on yours.
14 PROC 42 and OTIB-64. Here's a tangled web we can
15 attack. NIOSH had the action.

16 MS. K. BEHLING: And, Wanda,
17 actually, I don't know if NIOSH has anything to
18 add, but I do know that this is where Ron Buchanan
19 had put together a memo that discussed we did a
20 focused review of OTIB-64, and I think Ron is
21 prepared to discuss that.

22 CHAIR MUNN: Oh, I hope so. Have we

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1 gotten, do we have you on track, Ron, or have I
2 gotten ahead of the agenda adequately to confuse
3 everybody?

4 **ORAU PROC-0042 - OTIB-64 Status**

5 DR. BUCHANAN: No, it's fine. If you
6 see this as kind of a tangled web, OTIB-13 has
7 been for many years, Y-12, this is Y-12 external
8 dose reconstruction, OTIB-13. And connected to
9 that was Procedure 42, and these used the scaling
10 factor, and these were both replaced recently by
11 OTIB-44 and OTIB-64, and one being the scaling
12 factor sort of redone and then coworker data,
13 OTIB-64, for Y-12 external dose.

14 In May, I think it was, we discussed
15 OTIB-13 findings and closed them all. Wanda
16 closed those out at the meeting, and so that's
17 really not applicable to this discussion. Now,
18 Procedure 42, we were charged with going through
19 that and determining if the findings there had
20 been answered or not applicable to OTIB because
21 of the replacement, OTIB-44 and OTIB-64, and so
22 that's what we did. And I believe there's about

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1 six findings on the previous Procedure 42, and
2 what we did is I went through that and I took
3 that and looked at the findings we had, the six
4 findings we had. I went and did 44 and OTIB-64
5 to see if they were answered or no longer
6 applicable, and what we find is that, in most of
7 the cases, NIOSH uses a different approach. They
8 use different statistics and if they used the
9 scaling factors to find differently than it was
10 in OTIB-13 in Procedure 42.

11 And so what I found with these
12 findings under Procedure 42 are no longer
13 applicable. A couple of them were about the 147
14 workers being stated that that was data used from
15 them, and OTIB-44 and OTIB-64 does address that
16 and lets the reader know that they did use that
17 data.

18 And so I don't know if you want to go
19 through each finding or the fact that we feel
20 that they are no longer or have been addressed
21 for all six finding recommend the Work Group
22 closure, and so however you want to handle that

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1 at this point.

2 CHAIR MUNN: Well, Ron, I know we've
3 been through this before, but I lose track of
4 where I am every time I start to follow through
5 on the actions. I personally would prefer that
6 you go through these one at a time with a very
7 brief explanation of where we are and whether we
8 need to be concerned about this in some other
9 slot in our activities than where we have them
10 now. As many of these as we can close out and
11 as accurately as we can characterize the
12 outstanding actions, any one finding to be taken
13 off of our consideration would be really helpful.

14 So yes from my perspective. If other
15 people would prefer that we just rely on what Ron
16 has written here and try to follow through with
17 it ourselves on our own. I only scanned the
18 report because I had hoped that we'd get a little
19 bit more as we go through, but I'll leave it to
20 my colleagues to make --

21 MEMBER BEACH: Wanda, I was going to
22 recommend the same thing, so I'm in agreement

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1 with that, going through each finding briefly.

2 CHAIR MUNN: Good, alright.

3 MEMBER ZIEMER: That's fine.

4 CHAIR MUNN: Good. So not to belabor
5 it, Ron, but we certainly, I think it behooves us
6 to try to get these condensed to their essence
7 and get them on the appropriate concern list. So
8 if you'll follow through with the good work
9 you've already done one at a time, it will be
10 most helpful. Thanks.

11 DR. BUCHANAN: Okay, thank you. So
12 we have on the screen now, we have finding number
13 one of Procedure 42, and there was some errors,
14 some text errors in some references that were
15 somewhat confusing and I had to re-read it
16 several times to clarify them. And we find the
17 resolution to that is that OTIB-64 is a complete
18 rewrite of the procedure, and so, therefore, it
19 did not contain the same text errors and the
20 clarification issues identified previously did
21 not appear in the new OTIB. And also the scope
22 of the coworker data was outlined in Section 2,

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1 page seven, of OTIB-54. So we feel that these
2 did not, this finding did not any longer apply to
3 the OTIB that replaced it, and we recommend
4 closure.

5 CHAIR MUNN: That is a wonderful
6 recommendation, from my perspective. Do I have
7 any objection from Paul or Josie?

8 MEMBER ZIEMER: I agree with closing.

9 MEMBER BEACH: I agree also to close
10 it. Thank you.

11 CHAIR MUNN: Please make the notation
12 that Finding 1 has been discussed by the
13 Subcommittee, and we are following the
14 contractor's recommendation for closure.

15 DR. BUCHANAN: Okay. I'll move on to
16 Finding 2, and this was problems with the
17 reference to some of the programs that were used
18 telling the dose constructor in the original
19 Procedure 42 to use the programs that we thought
20 that were referenced well and that we wanted to
21 make sure that the dose constructor would be
22 consistent.

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1 And if you want to scroll on down
2 there, Kathy, to the answer. Okay. Again, this
3 is a complete rewrite, and it does not use the
4 same scaling factor methodology which we
5 identified in Procedure 42. Therefore, the
6 finding didn't apply to the new OTIBs, and we
7 recommend closure.

8 CHAIR MUNN: I believe that we can use
9 the identical wording for that item, unless I
10 hear objection from Paul or from Josie.

11 MEMBER ZIEMER: I agree.

12 MEMBER BEACH: No objection here.

13 CHAIR MUNN: Very good. We are now
14 closing Finding 2.

15 DR. BUCHANAN: And this brings us to
16 Finding 3, and this was what I was referring to
17 on it wasn't identified that actually that some
18 of the data was being used was from 1947 and 1956,
19 147 batched workers for the period 1956 to 1965.
20 And there was no Procedure 42. That was not
21 clear. Again, we see that OTIB-64, the coworker
22 model now, replaces that, and it does identify on

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1 page 34 and 35 where this data comes from that is
2 being used. And so we find it is no longer
3 applicable in this case because it has been
4 answered, and we recommend closure.

5 CHAIR MUNN: I'm thinking about this
6 a little bit because of the time differential.
7 I believe it's reasonable to use the same wording
8 for closure of Finding Number 3, as well. Do I
9 hear agreement?

10 MEMBER ZIEMER: I agree with the
11 recommendation.

12 MEMBER BEACH: I also agree with it.

13 CHAIR MUNN: Again, duplicate the
14 wording for Finding 3. That seems appropriate,
15 despite the confusion and despite the original
16 concern. Thanks, Ron. We can take up Finding
17 4, I believe.

18 DR. BUCHANAN: Okay. Finding 4, if
19 we can move up the page here. Okay. This is
20 concerning assumptions and limitations on the
21 original Procedure 42. And, again, these have
22 been completely replaced in OTIB-64, and the

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1 assumptions and limitations are spelled out on
2 page 7, 8, 14, and 15 of the new OTIB-64 for the
3 coworker data. And so we felt that they had been
4 adequately explained and presented to the reader,
5 and so, therefore, we find that this has been
6 resolved and recommend closure.

7 CHAIR MUNN: It is so good to have
8 these tracked down. Thank you very much. I
9 recommend the use of the same language for
10 Finding 4, unless I hear to the contrary. Do we
11 agree, Paul?

12 MEMBER ZIEMER: Yes, I agree with
13 that.

14 CHAIR MUNN: Josie?

15 MEMBER BEACH: I agree, also.
16 Thanks, Wanda.

17 CHAIR MUNN: Very good. We have
18 closed Finding 4, and we can move on.

19 DR. BUCHANAN: Okay. The next one is
20 Finding 5, and this is, there was a technical
21 error in the way the exponents were created in
22 the scaling factor of the Procedure 42. And just

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1 as a sideline, the scaling factor was to help the
2 coworker model compensate for the 50's when there
3 was very little data. There was more data in the
4 60's, so the scaling factor looked at workers'
5 records from '61 to '65 and said, okay, we will
6 upscale their doses in 47 to 1960 because they
7 were probably exposed to more, even though they
8 weren't monitored. And so the scaling factor got
9 pretty complicated, so it was easy to get a
10 problem with it in how they carried it through
11 and we identified one of those problems in
12 Procedure 42. However, again, OTIB-64 is a
13 rewrite. It doesn't contain the same
14 methodology, and so we find that that has been
15 resolved and recommend closure on that finding.

16 CHAIR MUNN: Thank you, Ron. Because
17 I am too lazy to go refresh my memory about OTIB-
18 64, how did you get around the scaling factor?

19 DR. BUCHANAN: They do use a scaling
20 factor, but, as I get to Finding 6, I'll expand
21 on that a little more. They do use a scaling
22 factor, but they don't use the same methodology

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1 as they used in Procedure 42. And so while I
2 recommend we evaluate the new one, this finding
3 doesn't apply to the new one.

4 CHAIR MUNN: Alright. Very good.
5 Then we will consider the new one as an entirely
6 separate article, and we can, again, duplicate
7 the wording from Finding 1, that the Subcommittee
8 recommends that it be closed. Paul, do you
9 agree?

10 MEMBER ZIEMER: Yes, I agree with the
11 recommendation.

12 CHAIR MUNN: Josie?

13 MEMBER BEACH: Yes, I do, too.

14 CHAIR MUNN: Alright. Very good.
15 Now let's see what they did use. Finding 6.

16 DR. BUCHANAN: Okay. So now we'll go
17 to Finding 6, and now this is still applicable to
18 Procedure 42, and then I'll summarize at the end.
19 Okay. We talked about scaling factor in Finding
20 5. Finding 6 is how the scaling factor was
21 applied, and this has to do with an exponent and
22 when it was greater than one and less than one or

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1 one. And so this Finding 6 was a suggestion
2 in wording so that would be applied uniformly and
3 correctly.

4 And so, again, if we look at the
5 resolution on that, we find that this error
6 doesn't occur in OTIB-64 and it is a different
7 scaling factor method. And so we recommend the
8 finding for Procedure 42 be closed. And you'll
9 want to go down a little further, Kathy. Under
10 summary and conclusion, if we can get that up.

11 Okay. So, essentially, what we find,
12 what this paragraph says, that we find that OTIB-
13 13 and Procedure 42 has been replaced with OTIB-
14 44 and 64 and we find that the previous findings
15 in those two documents were not applicable to the
16 new document and/or have been resolved.

17 Now, we were tasked only with using
18 the two new documents to see if the old findings
19 had been resolved, and we've found that they
20 have. However, SC&A did not perform a technical
21 evaluation of the replacement documents OTIB-64
22 and OTIB-44, and their application or

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1 appropriateness for dose reconstruction, as this
2 would require tasking by the Procedure Review
3 Committee, and the new methods use a different
4 methodology in driving the adjustment factor, the
5 scaling factor, and they use quite a few
6 different statistics than they did in the old
7 documents. And, therefore, we recommend that a
8 full technical review of OTIB-44 and OTIB-64 be
9 performed, especially in evaluation of the
10 statistic methodology and the results obtained.

11 MR. KATZ: So this is then, I mean,
12 for the Procedures Subcommittee to recommend to
13 the Board a tasking on this because it's a new
14 procedure review?

15 CHAIR MUNN: Yes. And Ron's
16 recommendation sounds quite reasonable to me. It
17 would seem logical, especially given the
18 importance of these doses. It would seem
19 reasonable that we would want the current OTIBs
20 to be scrutinized.

21 MEMBER ZIEMER: We need to close that
22 last item, though, first, right? To prior this

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1 recommendation?

2 CHAIR MUNN: Yes. And item one for
3 Finding 6, for this finding, needs to be closed
4 with the same wording as we had used for the
5 others, unless I hear something to the contrary.
6 We could perhaps add comments here that, if we do
7 intend to recommend tasks to review OTIB-64 and
8 44, we can incorporate that in our closure
9 statements. I would suggest that we do that. It
10 makes sense to me.

11 **ORAU-RPRT-0044 - Crosswalk 4 Open Items to 0053**

12 CHAIR MUNN: So let's put this on the
13 table for just a few seconds while I add whether
14 it is the will of my colleagues that we do proceed
15 to a task that requests tasking for SC&A to review
16 OTIB-64 and 44.

17 MEMBER BEACH: Yes, Wanda, I do agree
18 with that. That's a good path forward.

19 CHAIR MUNN: And Paul?

20 MEMBER ZIEMER: Yes, I agree with
21 that. This would be a review of 64?

22 CHAIR MUNN: And 44, both OTIBs.

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1 MEMBER ZIEMER: Right.

2 CHAIR MUNN: Alright.

3 MR. KATZ: And this is Ted. Then for
4 this and any other items that come up today,
5 please send me just a brief summary that I can
6 share with the rest of the Board that summarizes
7 the procedure that the Procedure Subcommittee
8 recommending be reviewed to summarize the
9 procedure, you know, and its status and it hasn't
10 been reviewed for X, Y, Z, whatever the limit is
11 in the review in this case. We've talked about
12 it already. So if you could just put that in a
13 brief note to me for each of these procedures
14 that we may be asking for a tasking, that would
15 be helpful and then I could share that with the
16 rest of the Board.

17 CHAIR MUNN: Ron, could you put
18 together such a memo and run it by me before we
19 send it out?

20 DR. BUCHANAN: Yes, I can do that.

21 CHAIR MUNN: I would appreciate that
22 very much. And I'll let Ted know.

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1 MR. KATZ: Yes. Well, send it to me,
2 too, please, Ron, because I have some other items
3 already for tasking for -- the teleconference is
4 coming up pretty soon.

5 CHAIR MUNN: Yes, it is, and this is
6 a good time for us to try to get all of these
7 requests for work that we have internally decided
8 on that hadn't been recommended yet to the Board.
9 I'll look forward to a memo from you, Ron. And,
10 Lori, I'm assuming you're going to be -- Lori or
11 Kathy, who's going to be doing the BRS insertion
12 on these?

13 MS. K. BEHLING: SC&A can update the
14 BRS for these.

15 CHAIR MUNN: Alright. If you would,
16 incorporating the sentence with respect to
17 closure --

18 MS. K. BEHLING: Will do.

19 CHAIR MUNN: -- that we're
20 recommending to the full Board that OTIB-64 and
21 44 assigned to SC&A for review. Thank you.
22 Report 44. Oh, before we go on, is there

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1 anything further with this item on Proc 42 and
2 OTIB-64/44 that we need to address? That
3 completes your review, Ron?

4 DR. BUCHANAN: Yes, that completes my
5 review. Thank you.

6 CHAIR MUNN: Any comments, any
7 questions, any concerns? If not, then we will
8 move on to Report 44. NIOSH was going to take a
9 look at 53 and 44 and see if the open items, how
10 the open items related to each and to get it
11 squared it away once and for all, we hope. Do
12 we have that report from NIOSH?

13 DR. NETON: Yes, this is Jim. That
14 was my task at the last Work Group -- or
15 Procedures Subcommittee meeting. So I took a
16 look at Report 44, which was a report that dealt
17 with how to handle distributions of bioassay
18 samples that had a significant fraction of values
19 less than the MDA that essentially had a lot of
20 sensor data. And SC&A's review of that report
21 was pretty favorable from a statistical analysis
22 sense, but the four findings largely related to

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1 the fact that they felt that there should be some
2 indication of how you would deal with
3 stratification of distributions. In other
4 words, how do you know all the data came from the
5 same sample population allowing for different
6 exposures and different locations in work
7 assignments? Our response was, basically, that
8 we dealt with those issues in Report 53, which
9 was a report specifically dealing with
10 stratification of coworker models.

11 That said, I went back and looked at
12 Report 53 to review, and it is true that we deal
13 with stratification in that report, but there
14 were eight findings, all of which are still open
15 because of various criticisms of the statistical
16 processes and concepts that were outlined in
17 there. And in response to that, you might recall
18 that we also issued Imp Guide 4, which was how to
19 deal with coworker models, and it was a somewhat
20 more qualitative discussion, as opposed to the
21 detailed statistical analyses.

22 So that said, these findings on the

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1 stratification issue still remain open, so I
2 could not really see any way to address and close
3 out the findings that were levied against
4 Procedure 44 for stratification. I don't know
5 how we could actually close them in light of that.
6 So that's where I ended up on this one.

7 CHAIR MUNN: Well, that creates a
8 question in --- well.

9 DR. NETON: Well, you could say that
10 they were addressed, the stratification is
11 addressed in Report 53, but the models that are
12 provided in 53 are under review yet. So you
13 really can't say that we addressed them. We
14 attempted to address them but --

15 CHAIR MUNN: Well, the question that
16 comes to my mind is why am I not carrying Report
17 53 or --

18 DR. NETON: Well, remember 53 was sort
19 of taken over by the Special Issues Work Group.

20 MEMBER BEACH: That's what I
21 remember, too, Jim.

22 DR. NETON: Right. That's correct.

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1 And until such time as that issue is resolved, in
2 light of the review of draft Implementation Guide
3 4, those issues are sort of held out there for
4 discussion until that's resolved.

5 MR. KATZ: Right. And just to add a
6 little bit, so that Work Group was awaiting a
7 group of example coworker models to review, and
8 many of those, I think, have now been produced.

9 DR. NETON: Yes. The Savannah River
10 coworker models have been provided to both the
11 Work Group and the Savannah River Work Group, as
12 well as the Special Issues Work Group.

13 MR. KATZ: Right. And so those are,
14 I believe, under review at SC&A, and there will
15 be a meeting down the road once those reviews are
16 ready to discuss then these example coworker
17 models. So that's how this -- so this, as Jim
18 was, more or less, saying, this can't get wrapped
19 up until all that work is -- I mean, you know,
20 it's been a big piece of work.

21 CHAIR MUNN: Alright. It sounds to
22 me as though we should be maintaining this in our

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1 records as open items from Report 53 about which
2 we can do nothing until the Work Groups have
3 completed their activities. Am I looking at this
4 correctly, Ted?

5 MR. KATZ: Right. It's in progress.
6 I think that's what it should be stated as, in
7 progress.

8 CHAIR MUNN: And I'd like us to
9 clarify in our comments that we await the
10 decisions of two Work Groups in order to proceed.
11 So this really and truly, I would like a
12 recommendation with respect to whether we carry
13 this in our records as Report 44 or whether we
14 recognize that the action has all been directed
15 from the replacement report. Should we not be
16 carrying this as Report 53 in process through two
17 Work Groups?

18 MEMBER ZIEMER: It seems to me you
19 still have to track this under 044.

20 MR. KATZ: Unless 044 is obsolete,
21 then we still need to close this out. We just
22 can't close it out until the bigger issue --

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1 MEMBER ZIEMER: Yes. Is this really
2 obsolete or --

3 DR. NETON: No, Report 44 is not
4 obsolete. Our original response to the finding,
5 and it still is valid, is that Report 43 was a
6 methodology to analyze a statistical distribution
7 of bioassay samples, in no way intended to
8 address the stratification issue. And all four
9 findings, I just looked at them again, are
10 related to that issue.

11 So in some sense, the findings can be
12 transferred to Report 53, acknowledging, though,
13 that the stratification issue is still under
14 discussion in Report 53 because none of the
15 findings against Report 44 have to do with the
16 statistical methodology that was offered as to be
17 acceptable. And our response said that, that
18 that's all we intended it to be.

19 MEMBER ZIEMER: But we know they have
20 a recommendation from the contractor or response
21 that sort of says, okay, we'll recommend closing
22 that issue.

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1 DR. NETON: Actually, I'm looking at
2 one of the findings. Finding 2 actually says
3 that SC&A recommends closure.

4 MEMBER ZIEMER: Well, do we have that?
5 I don't --

6 DR. NETON: I don't know if we have
7 them for all the findings.

8 CHAIR MUNN: For at least one.
9 That's true. Well, I guess we can continue to
10 carry it as in progress but still in the hands of
11 two Work Groups to resolve.

12 MEMBER ZIEMER: What do they
13 recommend on the others?

14 DR. NETON: Well, I'm looking at
15 Finding Number 4, and it says SC&A recommends
16 review of 44, taking into consideration a new
17 methodology to deal with coworker data sets as
18 described in Report 53. It basically says review
19 44 in light of those two additional documents,
20 but I don't know -- I think what it's saying is
21 that those documents really cover the issues that
22 they raised.

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1 MR. KATZ: So I think the simplest
2 thing to do is just to put this aside as in
3 progress. We don't need to have it carried on
4 each agenda, and wait until that other ball of
5 wax is wrapped up, and then we can come back and
6 put these bed. That seems like the simplest
7 thing to do.

8 CHAIR MUNN: Well, my question is what
9 sort of trigger do we have from the Work Groups
10 and otherwise for us to address Report 44 when
11 the issues with 053 have been addressed?

12 MR. KATZ: Well, this is sitting in
13 the BRS as in progress and, when we run through
14 what's left in progress, we'll see that, right,
15 that this one hasn't been addressed. You can put
16 a little note there as a reminder for us that
17 it's waiting.

18 CHAIR MUNN: Okay. We just don't, we
19 don't have an established process now whereby we
20 go back and, at a regular interval, take a look
21 at what's in progress. We take a look at
22 abeyance items, but we have --

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1 MR. KATZ: I thought SC&A looks at
2 what's -- SC&A and NIOSH should be looking at
3 what's in progress and putting these things
4 behind us. I think that should be a routine
5 process. I don't --

6 CHAIR MUNN: I think that's --

7 MR. KATZ: -- just look at abeyance
8 items.

9 **PER 011 - #3 Abeyance Status; Case Selection Status**

10 CHAIR MUNN: Well, we regularly do so
11 in our procedures review but don't regularly look
12 at -- on occasion, we do, but in Subcommittee we
13 have not done that routinely for in process. But
14 if that's being done by both NIOSH and by SC&A,
15 then I won't worry my pretty little head about
16 it. Otherwise, when we either consider
17 establishing the routine the way we have for
18 abeyance or if we feel comfortable with the
19 process as it is, then I'm fine with that. I
20 just don't, I'm unaware of any routine that we,
21 as a Subcommittee, go through to check those --

22 MR. KATZ: I think the Subcommittee

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1 will check regularly in the BRS. Again, our
2 whole procedure was everything should be taken in
3 progress and assigned either to NIOSH or SC&A.
4 In this case, it's assigned to a Work Group that
5 --

6 CHAIR MUNN: Yes.

7 MR. KATZ: There shouldn't be
8 anything in our slate of procedures that are
9 under review that isn't assigned one way or the
10 other.

11 CHAIR MUNN: Yes, but that doesn't
12 come to our attention. I'm just being, I guess,
13 nitpicky about how I personally know that's what
14 happens but --

15 MEMBER ZIEMER: The other in progress
16 ones we get regular feedback from NIOSH and SC&A.
17 If it's a finding of another Work Group, we
18 probably lose track of whether they looked at it
19 or not. I'm wondering if there's a way where
20 ones that are in progress in this kind of a
21 category, just to keep them on the agenda, if
22 it's an in progress that somebody other than SC&A

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1 and NIOSH has the lead on it.

2 CHAIR MUNN: Alright. It's something
3 that just simply goes away for us for an
4 undetermined amount of time. Depending on how
5 active the Work Group is, it can stretch itself
6 out for a long, long time.

7 MS. K. BEHLING: This is Kathy.
8 Would it be worthwhile to send a note to the Work
9 Groups just to keep you informed as to their
10 progress?

11 MR. KATZ: No. The Work Groups will
12 never be able to keep track of that they're
13 supposed to inform another Work Group at some
14 point. That will never happen. So I think
15 really, SC&A, if you can keep this in the
16 tracking, keep this tracked, that would work.

17 CHAIR MUNN: Alright. It would if we
18 would request that one of the routine tasks for
19 SC&A would be to take a look at in-progress items
20 to see when they have been in the hands of a Work
21 Group or Work Groups just to keep us aware of
22 that from time to time, not perhaps every

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1 meeting, depending on how frequently we meet.
2 But certainly on a fairly routine basis, just be
3 looking at that. I don't think that's been done
4 in the past. I'm not aware of it. I've not seen
5 --

6 MR. STIVER: Wanda, this is John.
7 Actually, we do that for each of the Board
8 meetings for that Board coordination document.

9 MR. KATZ: Right, you do. But those
10 are for ones that are on your plate or NIOSH's
11 plate. So I guess we just need to make sure that
12 included in that listing is -- I don't think
13 there's that many, but however many are assigned
14 or really in the purview of another Work Group.

15 MR. STIVER: Okay. We can add the
16 subsection.

17 CHAIR MUNN: Yes, that would be a
18 logical subset, I think, of --

19 MR. STIVER: And also put a note in
20 the BRS to the effect that, you know, this is
21 basically remaining in progress until such time
22 as the other Work Groups resolve the common

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1 issues.

2 CHAIR MUNN: Yes, that will be
3 helpful. Thanks. Resolved. Alright, good.
4 That's great. We'll rely on SC&A for the kind
5 of information we need to move forward on this
6 task. Thanks.

7 Anything else to say then about these
8 concerns we have with Report 44 and 53? Those
9 four open items are out of our hands for the
10 moment, but they're going to be tracked. Thank
11 you very much.

12 Alright. Let's move forward. We are
13 not going to take up the next item. That's the
14 one that we have given a 2:30 time certain for
15 discussing. But is Rose with us? Are you
16 online, Rose? Hello?

17 MS. GOGLIOTTI: Yes, I'm here, Wanda.

18 CHAIR MUNN: Oh, great. Are you
19 ready for us to take up K-25, PER 11?

20 MS. GOGLIOTTI: Sure.

21 CHAIR MUNN: Okay, good. Let's do
22 that. Number 3 abeyance status and whether we've

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1 done case selections. I haven't checked to see
2 whether that has moved forward. I was looking
3 elsewhere of whether we can go ahead with your
4 full report. Thanks, Rose. I appreciate it.

5 MS. GOGLIOTTI: No problem. Just for
6 a refresher, at the last meeting we were tasked
7 to review four cases from PER 11, and PER 11 is
8 very similar to PER 14. There were a series of
9 modifications to the K-25 coworker model,
10 including vetted by OTIB-52, which is
11 construction trade worker. And we have findings
12 from our initial tasking 1 through 3, and we have,
13 for the most part, addressed those. As a result
14 of that, though, we did have one issue that's I
15 believe an abeyance --

16 CHAIR MUNN: Number 3, right?

17 MS. GOGLIOTTI: -- we identified that
18 NIOSH was improperly implementing OTIB-52. They
19 were excluding construction trade workers that
20 worked for the prime contractor from construction
21 trade worker dose, and that was not, in fact, the
22 intent of the procedure. And so they've

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1 committed to a PER to address that issue, but the
2 Subcommittee decided to go ahead anyway and task
3 us with four case reviews, which we did here.

4 I've got a lot of stuff going on at once
5 here --

6 CHAIR MUNN: Yes. That's okay. I've
7 lost my screen anyhow, so I'm not going to be
8 disturbed.

9 MS. GOGLIOTTI: Alright. Well, there
10 were two criteria that we requested cases be
11 selected from. We requested two claims that were
12 originally completed before May 31st, 2005, and
13 that was slightly modified by one of our previous
14 findings. And also two claims that were
15 construction trade worker claims that were
16 processed between May 21st, 2005 and August 31st,
17 2006. And the reason for those dates has to do
18 with different revisions that impacted coworker
19 modeling for K-25.

20 And, initially, there were 432 claims
21 that were submitted or kicked backed to NIOSH,
22 and only 69 of those were reversed. And we did

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1 have our four cases assigned in June of 2016, and
2 we initially had a little snafu where the words
3 "construction trade worker" were left off one of
4 our requests, so we did have to go back and
5 request two new cases to make sure we were
6 adequately capturing the population of cases that
7 we wanted to.

8 So our first claim --

9 MR. KATZ: Rose, I don't know if you
10 can do anything about this, like perhaps move
11 your mic closer to your mouth or something,
12 because your voice, I can understand you, we can
13 understand you, I think, but it does --

14 MS. LIN: And just a reminder, this
15 is Jenny with OGC, just be careful with the
16 information that you're sharing on the public
17 meeting, okay?

18 MS. GOGLIOTTI: I'm aware.

19 MS. LIN: Thank you. It's just a lot
20 of information that's been shared on the screen,
21 and we're working from an unredacted version of
22 the documents, so, you know, just be cautioned

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1 about the information you share. Thank you.

2 MS. GOGLIOTTI: I'm aware that these
3 tend to have a lot of PA information in them.
4 But our first case that Kathy has up on the screen
5 would definitely qualify as a construction trade
6 worker, as you can see by their employment
7 history here. And the first claim was done in
8 2005, and the PoC was less than one percent. And
9 it was reworked under this PER in 2009. However,
10 there were several other changes added, so when
11 you look at the table you'll see it wasn't just
12 coworker dose that was impacted, including a
13 cancer was added to the dose reconstruction. So
14 the PoC did change a lot, but it wasn't
15 exclusively because of coworker modeling. And
16 it did go up to under 15 percent but still far
17 below the 50 percent threshold.

18 The original case assigned the dose
19 for three years, but in the reworks case NIOSH
20 only assigned dose for one year. However, in
21 this dose reconstruction, there was no
22 construction trade worker dose assigned. There

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1 was no modifications for construction trade
2 worker. They did follow the updated guidance.
3 They just didn't adjust for construction trade
4 worker.

5 So we do have that as a finding here
6 that we do acknowledge that NIOSH was improperly
7 implementing OTIB-52 until early 2014, and this
8 rework was done in 2009, so that was before that.
9 So it's possible this case will be captured under
10 the new PER. And here I did confirm that the EE
11 did work for the prime contractor during the
12 period in question. So at this point, I don't
13 think we can address that, and I would recommend
14 that we just hold that until the new PER is
15 issued.

16 CHAIR MUNN: You're recommending that
17 we continue to hold Finding 3 in abeyance until
18 --

19 MS. GOGLIOTTI: Well, this would be
20 Finding 6 now. We continued the finding
21 numbering from where we left off in the first
22 three taskings.

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1 CHAIR MUNN: Okay. That's good. I'm
2 having trouble because I'm struggling with my
3 electronic devices and have completely lost my
4 ability to even close my screen. So I'm having
5 to follow with my ear, which is not always great.
6 Okay, very good.

7 So we're recommending, essentially,
8 that this entire PER be held in abeyance until
9 the new PER is issued, correct?

10 MS. GOGLIOTTI: Not the entire PER.
11 We did go through and we did review four cases.
12 One of the four cases did include the
13 construction trade worker adjustment, so they are
14 doing it in some cases. But I think we were just
15 hitting the threshold here because how many of
16 these cases were done when they were implementing
17 OTIB-52 incorrectly.

18 CHAIR MUNN: Alright.

19 MS. GOGLIOTTI: And a large part of
20 this PER has to do with the implementation of
21 that procedure.

22 CHAIR MUNN: So, essentially, it's

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1 Finding Number 6?

2 MS. GOGLIOTTI: This is Finding
3 Number 6, correct.

4 CHAIR MUNN: That we're focusing on,
5 and we are going to place number six in abeyance
6 pending the issuance of the new PER. Am I
7 correct?

8 MS. GOGLIOTTI: Yes.

9 CHAIR MUNN: Alright. And that's
10 what we're going to put on our Board Reporting
11 System for this item. We will continue to --

12 MEMBER ZIEMER: Before you do that,
13 let me ask do we have NIOSH responses to the
14 findings?

15 MS. GOGLIOTTI: No.

16 CHAIR MUNN: Not that I'm aware of.

17 MS. MARION-MOSS: No, Paul. We're
18 still looking at these cases. This is Lori.

19 MEMBER ZIEMER: So the reason I ask
20 that, I'm not sure this is an abeyance issue at
21 this point if we don't know what NIOSH's position
22 is on it.

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1 CHAIR MUNN: Yes. We need, I think -
2 -

3 MS. GOGLIOTTI: Well, we can
4 certainly ask them do you believe that coworker
5 dose should have been assigned or the
6 construction trade worker dose should have been
7 assigned, given these parameters.

8 MR. HINNEFELD: This is Stu
9 Hinnefeld. I think I'll offer to this is that,
10 you know, we talked at other meetings about this
11 confusion that went on about whether prime
12 contractor employees should be considered
13 construction trade workers or not because, when
14 we compiled the construction trade worker data
15 set, we included prime contractor construction
16 workers in with construction workers. But there
17 was some confusion on some people's part about
18 when you do a dose reconstruction and we look at
19 construction trade workers does that only apply
20 to subcontractors? And so some of these cases I
21 think were done with the belief that a prime
22 contractor should not get the construction trade

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1 worker adjustment, and we've since clarified that
2 in our guidance and I believe we will be doing a
3 PER to address that change, the fact that we have
4 to look at cases where, you know, prime
5 contractor construction workers were not given
6 the construction trade worker adjustment.

7 So I believe some of these cases fall
8 into that pool of cases that were construction
9 trade workers but, since they were working for
10 the prime contractor, the dose reconstructor did
11 not give them the CTW adjustment. So I believe
12 we're going to catch these things up on a future
13 PER. But we'll have some official response, and
14 we'll put it in the BRS.

15 MR. KATZ: Alright. So, Wanda, I
16 think what you guys need is you need for NIOSH to
17 respond and confirm this is one of those cases,
18 and then you can close this finding.

19 CHAIR MUNN: We do need that, yes.
20 So I will carry it on the next meeting agenda as
21 a NIOSH action, as I have carried it indirectly
22 on this one. Sorry. But we'll have that item

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1 to get us back on track next time, if that's
2 amenable with all concerned.

3 MS. K. BEHLING: Excuse me, Wanda.
4 Should this finding then remain open?

5 MR. KATZ: Yes, in progress.

6 CHAIR MUNN: As in progress, yes --

7 MS. K. BEHLING: Okay.

8 CHAIR MUNN: -- pending a response
9 from NIOSH.

10 MS. K. BEHLING: Okay.

11 CHAIR MUNN: Alright. Do we have
12 anything else on PER 11?

13 MS. GOGLIOTTI: Yes, that was just the
14 first of four cases.

15 CHAIR MUNN: Okay. Now it's your
16 ball game.

17 MS. GOGLIOTTI: Okay. The next case,
18 we found that the dose was assigned correctly in
19 the reworked, but we do have one observation with
20 this case. We're not really sure if construction
21 trade worker dose should be applied in this
22 instance. It's an unusual case. Here, the DOE

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1 files indicate the EE had a certain profession
2 that wouldn't necessarily qualify as a
3 construction trade worker but then in NOCTS a
4 different set of careers are listed, and those
5 would qualify as construction trade workers.

6 And so in this case, we're not sure if
7 it would be appropriate to follow NOCTS' guidance
8 or the guidance that we've included in the CATI
9 report in the DOE files. I don't know where the
10 NOCTS specific employment classification comes
11 from, if that's part of a DOL confirmation, but
12 I couldn't find anything that justified what was
13 in NOCTS.

14 CHAIR MUNN: It sounds --

15 MS. GOGLIOTTI: They would have
16 always included construction trade worker. I'm
17 not sure in this instance.

18 CHAIR MUNN: It sounds reasonable to
19 me that this also falls in the category of the
20 previous, of its predecessor. I think it sounds
21 to me as though a response from NIOSH is in order.
22 Any objection to that suggestion?

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1 MEMBER BEACH: None here, Wanda.

2 CHAIR MUNN: Well, let's make a note
3 in the BRS that we are requesting NIOSH feedback
4 and response. Alright.

5 MS. GOGLIOTTI: We'll go to the next
6 case then. This case was originally completed
7 in February 2006 and was reworked in 2010. It
8 was initially an overestimate and became a best
9 estimate and was actually compensated as a
10 result. However, this case also, we believe,
11 would qualify as a construction trade worker, and
12 there was no construction trade worker estimate,
13 so very similar to the last finding. It's
14 unclear if, under the new PER, this would have
15 been included because of OTIB-52 confusion. So
16 I would recommend that we group this also with
17 Finding 6.

18 CHAIR MUNN: Any problem with that
19 recommendation?

20 MEMBER BEACH: None here.

21 MEMBER ZIEMER: No.

22 CHAIR MUNN: If not, then let's follow

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1 up accordingly.

2 MS. GOGLIOTTI: And we do also have
3 one observation with this case. Here, the cancer
4 was a skin cancer on the extremity. Can I talk
5 about this? I don't want to reveal any
6 information, but it indicates where the cancer
7 is.

8 CHAIR MUNN: Yes. We're okay, are we
9 not, Jenny?

10 MR. KATZ: No, let's not. Let's just
11 not go there with details, but thanks.

12 MS. GOGLIOTTI: Well, because of
13 where the PPE was, there isn't necessarily
14 guidance for it. The guidance that NIOSH used
15 involved a paper liner and one lab coat and two
16 pairs of coveralls, which is an electron
17 attenuation factor of 0.855. However, we don't
18 agree that that might be claimant-favorable in
19 this instance. The employment that NIOSH
20 references in the dose reconstruction report
21 acknowledges that this might not be applicable
22 but it was the best that they could do. Sorry.

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1 It's hard to talk about this without --

2 CHAIR MUNN: Yes, it is hard to talk
3 about it. I'm not quite sure how we do that
4 appropriately and get any information to those of
5 us who are out here --

6 MS. GOGLIOTTI: Well, Kathy does have
7 it up on the screen, but I --

8 CHAIR MUNN: But I don't have a screen
9 so . . .

10 MS. GOGLIOTTI: I tracked down the
11 references for this, and it does talk about give
12 different adjustment factors for different PPEs
13 when it's known. And those all have a lowered
14 beta dose attenuation factor. And given that the
15 specific PPE isn't clear in this instance, we
16 think it might have been more appropriate to just
17 assume no PPE for the beta coworkers dose
18 attenuation, and that reduces dose by about 1.22
19 rems. I'm sorry, 0.122 rems.

20 CHAIR MUNN: That clearly, in my view,
21 requires a response from NIOSH.

22 MEMBER ZIEMER: On observations, do

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1 we actually try to close those but --

2 CHAIR MUNN: We try to, but I
3 certainly don't have an answer to the observation
4 that was made. And I don't know how we can
5 proceed, other than requesting a little more
6 information, if it's available, from NIOSH. And
7 if it's not, then if the answer is we've done the
8 best we can, given the constraints that we work
9 under, then that's the better answer than I
10 personally have right now. But any other
11 suggestions as to how to proceed with the
12 observation?

13 MEMBER ZIEMER: I was just really
14 asking how do we track observations anyway?

15 CHAIR MUNN: Well, usually, we don't
16 because the observation under ordinary
17 circumstances is not something on which we, as a
18 Subcommittee, have needed additional
19 information, actually, or that we felt needed a
20 response. I just personally don't have any
21 additional information that would resolve the
22 dilemma in my own mind. If there is one out

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1 there, I don't know what it is. It just occurs
2 from my own piece of mind, I suppose, I'd like to
3 see if NIOSH has additional information that we
4 don't have with regard to this because I don't
5 have any feel at all for what the depth of
6 information that's available to them and don't
7 really and truly understand the constraints under
8 which they must operate to make the decisions
9 that they make.

10 But if there's nothing that can be
11 added, then I'd guess I'd like to know that. But
12 it's not anything that's going to affect the
13 outcome one way or the other.

14 MS. K. BEHLING: And this is Kathy
15 Behling. We have been adding the observations
16 to the BRS, so they exist there.

17 CHAIR MUNN: Yes, we decided to do
18 that quite some time ago.

19 MS. K. BEHLING: Yes. I thought that
20 was Paul's --

21 MEMBER ZIEMER: No, I understand
22 they're there. I couldn't recall that we were

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1 trying to close them in a certain sense.

2 CHAIR MUNN: Well, we've never really
3 and truly encountered one that we thought we
4 needed to be closed. It's usually just an
5 observation, as this one is.

6 MS. GOGLIOTTI: This one we made as
7 an observation, too, because it's not the direct
8 implementation of the PER, but it was applied to
9 the coworker modeling in this instance. And I
10 will point out also that observation two and
11 Finding 7 don't really have an impact of the
12 overall case because this case was compensated.

13 CHAIR MUNN: Right. It's not going
14 to change anything regardless, but it's a matter
15 of information, in my view, more than anything
16 else. Thank you, Rose.

17 MS. GOGLIOTTI: Okay. And we've got
18 one final case here, but it did not have any
19 findings. I'll just go through it quickly. It
20 was originally done in 2006 and was revised in
21 2010. The PoC was 22 percent. When it was
22 reworked, it did go up but, so far, we'll well

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1 below the 50-percent threshold. The original
2 case actually applied only Y-12 coworker dose
3 because the EE did work at all three Oak Ridge
4 facilities when the dose was revised.

5 NIOSH did kind of an interesting thing
6 that I've seen in dose reconstructions before
7 where they essentially calculated coworker dose
8 at each of the three Oak Ridge facilities at the
9 50-percent threshold and then considered the
10 three doses and assigned the highest dose from
11 each coworker modeling. I'm not aware of any
12 procedures that recommend doing that. However,
13 it seems claimant-favorable and a reasonable
14 approach to assigning dose. So we have no
15 problem with the way that they did that, and the
16 coworker dose did increase. And this one, we had
17 no findings, and so it shows that PER 11 will be
18 implemented correctly for this particular case.

19 CHAIR MUNN: That's always good
20 information to have. Thank you, Rose.

21 MS. GOGLIOTTI: So in conclusion, we
22 had our four cases that we reviewed. We did have

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1 two findings and two observations. Both findings
2 had to do with using a CTW correction, and we
3 believe that that will be covered under the new
4 PER and for OTIB-52, but we can let NIOSH respond
5 to that.

6 CHAIR MUNN: Alright. I think we've
7 identified what we expect in this case, so we are
8 going to be in progress and waiting some
9 responses from NIOSH. And we'll carry that over
10 to next time.

11 My clock tells me that it is now
12 essentially 12:40 for most of you, and that's our
13 anticipated lunch hour. Unless there's any
14 objection, I'd like for us to pause our
15 proceedings at this point and see you back here
16 at 1:40. Is that amenable with all?

17 MR. KATZ: Sounds good, Wanda.

18 MEMBER BEACH: Sounds great.

19 MEMBER ZIEMER: Yes.

20 CHAIR MUNN: I'll struggle with my
21 screen and see if I can get back to you by 1:40.
22 Alright. Thank you all. We'll see you very

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1 shortly.

2 (Whereupon, the foregoing matter went
3 off the record at 12:40 p.m. and went
4 back on the record at 1:42 p.m.)

5 MR. KATZ: Okay, great. So we have
6 our Subcommittee members on, and, Wanda, back to
7 you.

8 CHAIR MUNN: Alright. Since we're
9 still early for our time certain slot, let's
10 begin by taking up PER 29.

11 MR. KATZ: Oh, yes, right, because we
12 need John Poston. Right, thanks.

13 CHAIR MUNN: Yes, I had understood
14 that we were definitely going to save GSI until
15 2:30, which it's hard to tell where I am but where
16 you are I don't think it is that yet. PER 29.

17 MS. K. BEHLING: Excuse me, Wanda.
18 This is Kathy. Before we leave PER 11, I believe
19 there is Finding Number 3 that is in abeyance
20 that we're waiting on NIOSH response. Am I
21 correct on that?

22 CHAIR MUNN: I thought that was

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1 correct but --

2 MS. K. BEHLING: And I'm not sure we
3 gave him an opportunity to --

4 CHAIR MUNN: No, we didn't. We
5 abruptly went to lunch. Thank you, Kathy. Stu,
6 are you prepared to give us any information at
7 all about Finding Number 3?

8 MR. HINNEFELD: Lori, do you have
9 anything on that?

10 MS. MARION-MOSS: Yes. We're still
11 working on that PER for that in-abeyance finding.

12 CHAIR MUNN: Okay. So I'll need to
13 carry it yet again. Okay, very good. We'll do
14 that, and we'll expect number 3 activity, as well
15 as a response to the additional findings that
16 Rose has just given us with regard to the cases.
17 Good. PER 29 then.

18 MS. K. BEHLING: And, again, this is
19 Kathy. I'm sorry to interrupt. Is what is
20 showing on my screen being displayed or not?

21 CHAIR MUNN: I can't tell you because
22 I have --

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1 MR. KATZ: No, there's nothing
2 showing right now.

3 MS. K. BEHLING: Okay. Hold one
4 second here. How do I get back over there?
5 Okay, just one second. Let me get back in here.
6 I was in, but somebody has to allow me to join,
7 I believe.

8 CHAIR MUNN: And my apologies from the
9 Chair. I have no idea what's happening with my
10 digital functions here, but it certainly is not
11 allowing me to be where I need to be.

12 MS. K. BEHLING: Are you seeing my
13 screen now.

14 MR. KATZ: No, I'm not seeing your
15 screen still.

16 MS. K. BEHLING: Okay. I'm selecting
17 present desktop, and it's not doing anything.

18 MR. KATZ: Maybe Rose can bring it up.
19 I know she's listed as a presenter.

20 MS. GOGLIOTTI: I'll try.

21 MR. KATZ: So that's working.

22 MS. GOGLIOTTI: Okay. So you have my

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1 desktop?

2 MR. KATZ: Yes, yes.

3 MS. GOGLIOTTI: I wasn't planning on
4 presenting . . .

5 MR. KATZ: I think someone can give
6 Kathy permission to present, but it has to be
7 given. Not sure how that --

8 MS. K. BEHLING: Yes, because my
9 screen is currently saying that I'm in the lobby.
10 Okay. Here we go. I can maybe try one more
11 time, if you'd like.

12 MR. KATZ: Well, then, Rose, you'd
13 have to give control. See that little give
14 control button?

15 MS. GOGLIOTTI: Yes.

16 MR. KATZ: See if you can do that for
17 Kathy. Yes. And, Kathy, so now it should work
18 for you.

19 MS. K. BEHLING: Okay.

20 CHAIR MUNN: There does seem to be a
21 time delay this morning for some reason.

22 MR. KATZ: It's showing, Kathy, that

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1 you have the right to display, so it should work
2 for you.

3 MS. K. BEHLING: Okay. Are you
4 seeing the BRS?

5 MR. KATZ: Well, right now I'm just
6 seeing a desktop and a cursor moving around, and
7 I don't know if that's your cursor or . . .

8 MS. K. BEHLING: Okay. Mine says
9 presentable content, desktop Rose now showing.

10 MR. KATZ: Okay. Yes, well, it's
11 showing Rose, but I thought she had given you
12 control. You should be in control. So you have
13 to go down and select your desktop and --

14 MS. K. BEHLING: Okay. Are you
15 seeing the BRS?

16 MS. GOGLIOTTI: No.

17 MS. K. BEHLING: Not quite sure
18 because when I select, and maybe I'm selecting
19 the wrong thing, when I go to the screen that's
20 supposed to be the presentation screen, the only
21 thing I see is managed presentable content.

22 MR. KATZ: Well, don't you have a

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1 little symbol of a desktop on yours?

2 MS. K. BEHLING: Yes.

3 MR. KATZ: Can you click on it?

4 MS. K. BEHLING: And when I select
5 that, it doesn't allow me to go to present desktop
6 as it did before. Now it's just manage
7 presentable content.

8 MR. KATZ: Right. So something has
9 changed. Maybe now try it.

10 MS. K. BEHLING: Okay.

11 MS. GOGLIOTTI: Is it possible that,
12 because you signed in under the attendee instead
13 of a presenter --

14 MR. KATZ: But I thought she did
15 before, too.

16 MS. K. BEHLING: Yes, I did.

17 MR. KATZ: So it's the same as it was
18 before, and it was saying that she has control.
19 Maybe, for time's sake, we should just have Rose
20 --

21 MS. K. BEHLING: Yes.

22 MR. KATZ: Rose, if you can handle it.

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1 MS. GOGLIOTTI: Sure.

2 MS. K. BEHLING: Yes, I apologize. I
3 don't know --

4 MR. KATZ: No, no worries. It's a
5 new system so . . .

6 CHAIR MUNN: We're all in the same
7 boat, Kathy.

8 MS. K. BEHLING: Yes, everything
9 seemed fine the first time around.

10 MR. KATZ: Yes, it went fine.

11 CHAIR MUNN: Yes, we had no problems
12 with it at all last week.

13 MR. KATZ: You may need to wrest
14 control back from Kathy, Rose. Okay. So Rose
15 is back in control.

16 MS. GOGLIOTTI: Okay. Can everybody
17 see my screen here?

18 MR. KATZ: Yes, yes.

19 MS. GOGLIOTTI: And the next one we
20 were going to do was PER 29; is that correct?

21 CHAIR MUNN: That's correct, yes.
22 That's what we were looking at.

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1 MS. K. BEHLING: Actually, I was just
2 going to go to the BRS and show findings.

3 MS. GOGLIOTTI: Okay.

4 MR. KATZ: There it is.

5 **PER 029 - Finding 11, 1212 Status**

6 MS. GOGLIOTTI: Okay. And Finding
7 11. Alright. It's up on the screen.

8 MR. KATZ: Yes, fine. Thank you,
9 Rose. Kathy, are you there?

10 MS. K. BEHLING: Yes, I'm here. This
11 is a NIOSH response we're waiting for.

12 MS. MARION-MOSS: This is Lori. PER
13 29 is a Hanford PER, and this particular finding
14 here states that the Subcommittee is awaiting a
15 new PER for Hanford. We agreed to the finding.
16 If I can recap, the finding is associated with
17 the plutonium alpha impurities that the PER did
18 not address. So we have agreed to that finding,
19 and we are currently awaiting the various issues
20 associated with the Hanford TBD to be resolved
21 prior to issuing a new PER.

22 MR. KATZ: So this is still, this is

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1 in abeyance.

2 MS. MARION-MOSS: Well, currently,
3 it's in progress now.

4 MR. KATZ: I thought, I thought what
5 you had said was that you agreed to the changes
6 and were just waiting for other matters to get
7 addressed before you update the TBD. Isn't that
8 what you said?

9 MS. MARION-MOSS: Correct.

10 MR. KATZ: Lori?

11 MS. MARION-MOSS: Yes, that's
12 correct, Ted. But what I was referring to was
13 that, currently, in the BRS, the status is in
14 progress.

15 MR. KATZ: Oh, no, I understand, but
16 so if you're agreeing to the findings then we can
17 put them in abeyance is what I was saying.

18 MS. MARION-MOSS: Okay.

19 MR. KATZ: Yes. I mean, that's for
20 the Subcommittee to do.

21 CHAIR MUNN: Paul, can you take the
22 helm on this?

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1 MEMBER ZIEMER: Yes, neither you, nor
2 Josie, can comment on this one, I guess.

3 CHAIR MUNN: That's correct. This is
4 your decision today.

5 MEMBER ZIEMER: I'll discuss this
6 with myself.

7 CHAIR MUNN: Yes.

8 MEMBER ZIEMER: This is fairly
9 straightforward. The final adjudication of this
10 one has been agreed to, but it hadn't appeared
11 yet. So I think in abeyance is where it needs
12 to go, as I understand the issue.

13 MR. KATZ: Right.

14 MEMBER ZIEMER: And I'm the only one
15 that gets to vote on this, so I'm voting that we
16 take them in abeyance.

17 MR. KATZ: Right. I think that works
18 fine. There's no controversy here since NIOSH
19 agrees with the finding.

20 MS. K. BEHLING: Will NIOSH be putting
21 that in abeyance or do you want SC&A to --

22 MR. KATZ: You can go ahead and do

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1 that, Kathy. That's fine.

2 MS. K. BEHLING: Okay. Thank you.

3 MR. KATZ: Thanks.

4 CHAIR MUNN: Are there any other
5 comments from anyone with respect to PER 29? If
6 not, then let's go to PER 31, report review.
7 This is a carryover from a couple of meetings
8 before.

9 MS. K. BEHLING: There is one more
10 finding, 12, for the PER 29.

11 CHAIR MUNN: Oh, yes, Paul? I'm
12 trying to walk away from one of the --

13 MEMBER ZIEMER: Yes, okay. Lori, do
14 you have it?

15 MS. MARION-MOSS: Oh, yes, this is
16 Lori. The same holds true for Finding Number 12.

17 MEMBER ZIEMER: Okay. Same final
18 outcome here, so I'll be clear that this will go
19 in abeyance.

20 MR. KATZ: Thanks, Paul.

21 CHAIR MUNN: And, again, we're back
22 to PER 31. That's a carryover. Do you have

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1 anything, NIOSH?

2 MS. MARION-MOSS: Stu, this is the PER
3 for Y-12 for the --

4 MR. HINNEFELD: This is the thorium
5 one, right? The thorium --

6 MS. MARION-MOSS: Correct, correct.

7 MR. HINNEFELD: Yes. It's still
8 being worked on, still working on a way to, we're
9 still deciding if we can do thorium doses for Y-
10 12.

11 **PER 0031 - Report Review Carryover**

12 CHAIR MUNN: So we're continuing the
13 carryover.

14 MR. KATZ: Right. So this should
15 show as in progress.

16 **PER 0047 - Abeyance 3, 4**

17 CHAIR MUNN: PER 47, one that's in
18 abeyance. We have Findings 3 and 4. Again, a
19 carryover from NIOSH. Any report? It should
20 have been a part of the abeyance items.

21 MR. HINNEFELD: I believe we have a

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1 new item in there on 4.

2 MS. MARION-MOSS: No, that would be
3 3, Stu.

4 MR. HINNEFELD: Three? Three is what
5 we entered in this?

6 MS. MARION-MOSS: Yes.

7 MR. HINNEFELD: Okay. To talk about
8 this briefly, the original response that our side
9 put in, we put in is not really relevant to the
10 comment. This is a dose reconstruction that's
11 done from a template, so we don't have enough
12 claims from the site to run a Site Profile. Then
13 we write a dose reconstruction. The entire
14 analysis was supposed to be on the dose
15 reconstruction report, and, to make sure those
16 were consistent, we have these templates that we
17 work from to prepare these dose reconstruction
18 reports.

19 In this case, the dose -- and when you
20 use a template there are pieces of the template
21 that are applicable and you insert and there are
22 pieces that are not applicable and you don't

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1 include in the dose reconstruction. In this
2 case, the dose reconstructor did not include a
3 table that was relevant to this dose
4 reconstruction. And so this number appeared
5 without any basis, but it does, in fact, have a
6 basis, have the correct information from the
7 template being copied.

8 So I think, you know, we can probably
9 provide an example, provide the templates so that
10 people, you know, could see that the information
11 is there, or we can proceed elsewhere. But this
12 is just a matter of a piece of information that
13 should have been in the dose reconstruction
14 report being inadvertently admitted.

15 MR. KATZ: And for the record, this
16 is a Grand Junction case.

17 CHAIR MUNN: Yes.

18 MEMBER BEACH: This is Josie. Can
19 that be attached just right here, in addition to
20 your reply?

21 MR. HINNEFELD: I'm sorry. What did
22 you say?

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1 MEMBER BEACH: Can that just be
2 attached right at number three here?

3 MR. HINNEFELD: So we could provide
4 the template to --

5 CHAIR MUNN: Yes, is there any reason
6 why the template itself can't be attached.

7 MR. HINNEFELD: No, no.

8 CHAIR MUNN: If not, then perhaps that
9 would be the simplest way to dispose of this
10 particular finding, just attach it.

11 MEMBER ZIEMER: I mean, if we have a
12 confirmation that it was done, I don't see any
13 need to actually put it here.

14 MEMBER BEACH: As long as SC&A has
15 looked at it and agrees.

16 MEMBER ZIEMER: I mean, SC&A was only
17 raising the issue of why the template wasn't
18 compared, right?

19 MR. HINNEFELD: They raised the issue
20 about -- well, if we can go up and look at the
21 finding. There's a description of the data
22 available that is not presented and there's no

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1 tabulation of it in the dose reconstruction
2 report. There is a tabulation of it in the
3 template, which is supposed to be copied on the
4 dose reconstruction report. So that's, you know,
5 that's the nature of the finding.

6 CHAIR MUNN: So I understand
7 correctly, this is essentially a QA issue, right?

8 MR. HINNEFELD: I would guess that's
9 true, yes.

10 CHAIR MUNN: Okay. I would think so
11 because this template exists. It just simply was
12 not used appropriately, right?

13 MEMBER ZIEMER: Well, I gather it was
14 used. It doesn't show up in the report is --

15 CHAIR MUNN: Yes, it doesn't show.

16 MEMBER ZIEMER: Is that correct?

17 MR. HINNEFELD: Yes, we used the data
18 that was in the template in preparation of the
19 dose reconstruction report in order to get the
20 number, the dose number. What we didn't include
21 was the tabulation of those, we say there are 569
22 air sample measurements, but then there's no

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1 attenuation of the dose reconstructor that shows
2 what those indicate. So that was what was left
3 out, though we used the dose number from the
4 template. We just didn't include the table. I
5 believe that's the case.

6 MEMBER ZIEMER: SC&A, do you need to
7 see that to confirm it?

8 MS. K. BEHLING: Yes. This is Kathy.
9 Yes, he was questioning, it appeared in the
10 template that the dose reconstructors were being
11 told that you can go back to look at these 569 -
12 -

13 MR. HINNEFELD: Yes, right. That's
14 the way the dose reconstruction appears, yes.

15 MS. K. BEHLING: Yes. And we wanted
16 to be sure that it was tabulated somewhere, but
17 I'm not sure that we saw that. And I do think
18 that we should see, we should see that, yes.

19 MR. KATZ: Sorry. We can't hear,
20 Hans.

21 MS. K. BEHLING: Go ahead, go ahead.
22 He was on mute.

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1 CHAIR MUNN: Now we're not hearing you
2 at all.

3 MR. KATZ: No, he was just far from
4 his mike. He wasn't on mute. But now we can't
5 hear him.

6 CHAIR MUNN: Still not hearing
7 anything.

8 MS. K. BEHLING: What he's suggesting
9 is that we didn't want, obviously, the dose
10 reconstructors to have to go back through 500 and
11 something and we wanted to be sure that this data
12 was in some tabulated format. But we saw bottom-
13 line dose numbers, but I think we still need to
14 look at the supporting data that was used to
15 develop those doses.

16 MR. KATZ: So that's fine. I mean,
17 we can just continue this as in progress, and
18 it's in SC&A's hands.

19 CHAIR MUNN: Right.

20 MR. HINNEFELD: Well, we'll send a
21 template.

22 MR. KATZ: Yes, yes.

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1 MEMBER ZIEMER: Now, Ted, all we need
2 is a report back from SC&A that they've confirmed
3 it. We don't need the template in order to --

4 MR. KATZ: Right, right.

5 CHAIR MUNN: And that will take care
6 of item number three, Finding Number 3. But we
7 still need something from NIOSH, I believe, for
8 Finding 4, correct?

9 MS. MARION-MOSS: Yes, Wanda, this is
10 Lori. I believe Finding 4 was that we would
11 revise the template in regards to the radium-226
12 and thorium-230 equilibrium ratio, and we're
13 still working on that and we should have that by
14 the next meeting.

15 CHAIR MUNN: So it's being corrected,
16 is it? The template?

17 MS. MARION-MOSS: Yes. We need to
18 make a correction.

19 CHAIR MUNN: Okay. Very good. So we
20 have an action from NIOSH on both of them, but
21 next time we'll hear back from SC&A. Okay.

22 MR. KATZ: But I think a

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1 clarification. Lori, have you already agreed
2 with the finding before it was in abeyance
3 awaiting you to actually make a change to the
4 template, or are you just agreeing with the
5 finding now and saying you're going to make such
6 a change, or something else?

7 MS. MARION-MOSS: No, back in April -
8 -

9 MR. KATZ: Okay, okay. So it already
10 was in effect, should have been in abeyance.

11 MS. MARION-MOSS: Right. So it's in
12 abeyance now.

13 MR. KATZ: Okay, good, alright.

14 CHAIR MUNN: Yes, that's where we have
15 it, I believe.

16 MR. KATZ: Okay, thanks.

17 CHAIR MUNN: Alright. I will
18 untangle that in my own mind offline. Anything
19 else on PER 47?

20 MS. K. BEHLING: Wanda, one question.
21 Should Finding 3 state in abeyance, or did I hear
22 someone say we should now put this in progress?

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1 MR. KATZ: Well, I'm not sure why it
2 was in abeyance if you had an answer in the first
3 place already with respect to the template,
4 right? We just learned --

5 MS. K. BEHLING: I guess we were
6 waiting to see the template.

7 MS. GOGLIOTTI: We can change it to
8 in progress in the BRS.

9 MR. KATZ: Yes, okay.

10 MS. K. BEHLING: Alright. I just
11 wanted to verify.

12 **PER 0053 - Case Selection Status**

13 CHAIR MUNN: That's good. All clear
14 on PER 47? Then we'll move on to, we have a
15 chemical PER, 53. We have Hans' report on that
16 because NIOSH has already fulfilled its
17 obligation and provided the cases, and the
18 selection was made and Hans has a report for us.
19 Are you there, Hans?

20 DR. H. BEHLING: Okay. I'm sorry.

21 CHAIR MUNN: That's quite alright.

22 DR. H. BEHLING: I had problems with

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1 my headset here. It's been acting up.

2 MR. KATZ: Hans, before you get
3 started, just please be very careful not to
4 really discuss Chapter 6 of individual cases.

5 DR. H. BEHLING: I have been warned
6 by my wife, and she's sitting right here ready to
7 hit me if I say something I'm not supposed to.

8 MR. KATZ: Okay. Thanks, Hans.

9 CHAIR MUNN: She has her hand on the
10 mute button.

11 DR. H. BEHLING: Okay. Anyway, I
12 just wanted to briefly review the one case that
13 was reworked and evaluated on behalf of the
14 Allied Chemical Corporation with regard to PER
15 53. Anyway, I wanted to briefly just give a
16 little bit of a background so that everyone is on
17 par with the issues here.

18 The PER 53 was issued as a result of
19 significant issues to the Site Profile for Allied
20 Chemical, and I can just briefly review what some
21 of these issues were. Number one, there was new
22 guidance in Section 4.1 of the TBD for the

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1 assignment of external doses for periods when
2 monitoring records were incomplete and missing,
3 and the revised version recommends an approach
4 for filling the gaps in dosimetry by means of
5 uses adjacent time periods with available dose
6 data.

7 The second issue that was incorporated
8 into the revision was additions to revised
9 isotopic ratios for non-uranium radionuclide
10 intakes in a residual period, and there was some
11 increase in mode of unmonitored neutron dose from
12 1969 to 1976. And there was also not just in
13 addition to revisions to the TBD but there was
14 also they coincided in time, the revision
15 coincided in time with changes to OTIB-70, the
16 dose reconstruction, during residual periods at
17 the time referenced for the facility. And that
18 particular revision changed the source term, the
19 patient factor, from 0.01 per day to 0.067, which
20 is an increase in the potential exposures and
21 dose during the residual period.

22 The revisions that were incorporated

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1 into Revision 2 involves all job types at the
2 facility. Also, it incorporated dose time frames
3 during the operational period, as well as the
4 residual period. And on behalf of the PER 63,
5 NIOSH had identified 93 claims that mandated the
6 recalculation of the dose, and, of the 93 revised
7 dose reconstructions performed by NIOSH under PER
8 63, the resulting Probability of Causation values
9 were all below 45, so none of them exceeded the
10 threshold for being compensable.

11 On behalf of the commitment under
12 subtask 4, SC&A recommended that at least one
13 dose reconstruction should be evaluated, but that
14 was conditional that it was an individual that
15 was employed during the operational period, as
16 well as the residual period. And when I look at
17 the data here in the teleconference call on May
18 16th, 2016, the procedure review Subcommittee
19 tasked SC&A to review one case that was provided
20 to us by NIOSH that met that criteria. This
21 individual was employed during the operational
22 and during the residual period.

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1 And at this point, I think, Kathy, can
2 you pull up -- okay. I just want to briefly go
3 over the actual changes that occurred that appear
4 in Table 3-1 which compares the dose estimates
5 identified in the previous and reworked PERs, and
6 there were really a total of five changes that
7 were identified in bold print. And you'll see
8 that in the first one there were two cancers, by
9 the way, for this individual, which you can see.
10 And then, therefore, you have four columns: the
11 first cancer, the previous dose, the revised dose
12 for the first cancer. And same thing for the
13 second cancer: the previous dose and the revised
14 dose.

15 For the first change that you see for
16 external dose, the cancer was revised from 2.075
17 rem to 2.684 rem, and that was based on an
18 increase in dose that reflects the increase of
19 the non-penetrating dose component from 9.36.
20 But, in essence, this change would take the
21 interpretation guidance in ORAUT-OTIB-0017, the
22 interpretation of dosimetry data for assignment

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1 of shallow dose, incorporated into the revision
2 of the Site Profile.

3 The second one is the unmonitored
4 neutron doses to cancers that is now in the SEC
5 of external unmonitored neutron dose, which is
6 the third row of the table. And the change value
7 of 0.094 rem to 0.104 rem is a modest site
8 increase and reflects the change in the neutron
9 dose rate between Revision 1 and Revision 2 of
10 the Site Profile that was changed under Revision
11 2. And that's the third issue that was changed,
12 the internal dose that increased on behalf of the
13 first cancer from 4.912 to 5.033 rem, while the
14 internal dose to the other cancer decreased from
15 3.703 to 3.351 rem. This increases the rates of
16 internal dose to these two cancers respectively
17 with respect to the combined impact of the
18 changes in Revision 2 to the Site Profile
19 involving non-uranium radionuclides in the
20 depletion rate of separating in the residual
21 period as defined by the revised OTIB-70.

22 All of the numbers were only modestly

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1 changed, and we identified, SC&A identified the
2 fact that all of the revisions that had been
3 introduced had been adequately reflected in the
4 revision of this particular dose reconstruction
5 and there were no findings. As a result, SC&A
6 recommends closure of PER 53.

7 CHAIR MUNN: Thank you, Hans. Any
8 comments or suggestions?

9 MEMBER ZIEMER: Well, I recommend
10 that we accept the recommendation.

11 CHAIR MUNN: I certainly would
12 confer. Josie?

13 MEMBER BEACH: Yes, I don't have any
14 comments, and I agree with accepting the
15 conclusion.

16 **PER 0054 - Status**

17 CHAIR MUNN: The entry needs to be
18 that the Subcommittee has considered this item
19 and accepts the recommendation that it be closed.
20 And we can move on to -- thank you, Hans -- move
21 on to PER 54. I'm uncertain on this one as to
22 who has the action. At the time of our last

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1 meeting, we were expecting NIOSH to have this
2 action, but I don't know what's transpired since
3 then.

4 MS. K. BEHLING: Yes, this is Kathy.
5 Has Bob Anigstein joined?

6 DR. ANIGSTEIN: I'm here.

7 CHAIR MUNN: Oh, good.

8 MS. K. BEHLING: Good. This had to
9 do with whether, during the session where I
10 present to the Subcommittee the new PERs and new
11 OTIBs that are out there, you know, for your
12 consideration as to whether you want us to review
13 them, one of them was the carborundum PER 54, and
14 there was discussion that perhaps we do not need
15 to look at this PER because there's an SEC in
16 progress and until the SEC is finalized or
17 whatever. And at the time, I don't think Bob was
18 on the phone, and I wanted to be sure that he was
19 in agreement with that. And I think there was
20 some email or something sent out by Bob that
21 indicated he did look this over and discuss this
22 with NIOSH and he's in agreement that we can wait.

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1 Am I correct on that, Bob?

2 MR. HINNEFELD: This is Stu
3 Hinnefeld. Can everybody hear me?

4 CHAIR MUNN: Yes, we can.

5 MR. HINNEFELD: Is anybody saying
6 anything?

7 CHAIR MUNN: I'm saying something,
8 but I don't know anyone else is.

9 DR. ANIGSTEIN: Can everybody hear
10 me?

11 CHAIR MUNN: Yes, I can hear Bob
12 Anigstein.

13 MR. HINNEFELD: Yes, I can hear you
14 now, Bob.

15 DR. ANIGSTEIN: Kathy, are we talking
16 about the Carborundum PER?

17 CHAIR MUNN: Yes.

18 MS. K. BEHLING: Yes.

19 DR. ANIGSTEIN: Yes, that was -- okay.
20 The thing with the Carborundum PER, in my
21 opinion, this was a very minor thing --

22 CHAIR MUNN: I can barely hear you,

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1 Bob.

2 DR. ANIGSTEIN: Okay, one second.

3 CHAIR MUNN: I can barely hear you.

4 DR. ANIGSTEIN: Okay. Better?

5 CHAIR MUNN: Much, much better.

6 DR. ANIGSTEIN: Okay. Yes, my
7 problem is I hear two phones. One I hear on
8 better, and the other one people hear me better.
9 So I'm going to sometimes have to say say again
10 being on this phone. What happened with
11 Carborundum was they originally did it purely
12 based on TBD-6000, and then there was a revision
13 to TBD-6000 somewhere in 2011, so they redid the
14 Carborundum based on new values in TBD-6000.
15 They're really minor changes.

16 However, since then there was an SEC
17 and there was a major change in the approach to
18 doing the characterization of the site. Much
19 more research was done by NIOSH on the site, and
20 the SEC report essentially is like a Site
21 Profile. So it seemed that, eventually, there's
22 going to be, once the SEC, which is still in

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1 progress, once the SEC has voted on by the Board,
2 which I believe is scheduled to be at the next
3 March Board meeting, there will be much more
4 extensive changes. So it doesn't seem very
5 worthwhile to review these relatively minor
6 changes that are under -- what is it? Sixty-
7 four.

8 CHAIR MUNN: So these are essentially
9 in abeyance until the SEC report is complete?

10 DR. ANIGSTEIN: I would agree with
11 that, yes.

12 CHAIR MUNN: Alright.

13 DR. ANIGSTEIN: In other words, the
14 Board considered the SEC at the last Board
15 meeting and went back to NIOSH and requested
16 NIOSH for more information.

17 CHAIR MUNN: But in any case, we're
18 holding it in abeyance until we have the report
19 on the SEC, right?

20 MS. K. BEHLING: Correct, yes.

21 CHAIR MUNN: I think so, yes. I think
22 that's correct. So let's make a notation to that

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1 effect.

2 MR. KATZ: Right. And we may never
3 even do this PER because --

4 MS. K. BEHLING: That's right.

5 MR. KATZ: -- because it's kind of a
6 moot point.

7 CHAIR MUNN: It goes on our abeyance
8 list.

9 MS. MARION-MOSS: Wanda, this is
10 Lori. What are we putting in abeyance?

11 CHAIR MUNN: The entire effort to look
12 at PER 54.

13 MS. MARION-MOSS: Okay, thank you.

14 CHAIR MUNN: As was just commented,
15 we may not even do this one. It depends on the
16 outcome of the SEC report, which is pending.
17 Then it is getting very near to the 2:30 time
18 that we anticipated doing something else, but I
19 don't know whether we have all the people aboard
20 that we have committed to.

21 MR. KATZ: Well, I mean, I think the
22 person that's missing is John Poston. John, are

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1 you on the line? Look, I'll try to call John
2 Poston, but he wasn't expecting to join until
3 2:30 so . . .

4 CHAIR MUNN: Alright. Then let's go
5 ahead and move on to PER 59. And I think there
6 were actually three other PERs that were being
7 looked at in terms of criteria that we were
8 expecting from SEC, I believe, from SC&A.

9 MS. K. BEHLING: This is Kathy. This
10 PER 59, along with PER -- and PER 59 is Norton
11 Company -- along with PER 61, which is Bridgeport
12 Brass; PER 63 is Alcoa Pennsylvania; and PER 65
13 is Anaconda. During the last meeting, the
14 Subcommittee agreed that there should be a full
15 review of those four PERs. However, Ted
16 indicated that, because it's a full review, it
17 had to be presented to the full Board and that
18 they had to concur with that.

19 Now, I believe, Ted, just a few days
20 ago I had sent out a memo that had a table in it
21 with these PERs in it, and I believe, have you
22 fully briefed that to the full Board now, Ted?

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1 MR. KATZ: No, not yet because I need
2 all the materials for the full Board, not this
3 just. And so anything coming out of this meeting
4 I'm going to provide to the Board, too.

5 MS. K. BEHLING: Okay. So you are
6 going to take care of making sure that the entire
7 Board gets to look at this and make a decision?

8 MR. KATZ: Yes.

9 CHAIR MUNN: Hopefully, yes.
10 Hopefully, that will be on the agenda by the end
11 of this month, right, Ted?

12 MR. KATZ: Yes, it's for the Board
13 meeting at the end of this month. And because I
14 think three or all of those are ones where SC&A
15 hasn't reviewed, in effect, the Site Profile,
16 whatever it is, because these don't necessarily
17 have Site Profiles, per se. I think this is
18 going to be a case where we recommend to the
19 Board, the Board is going to want to have the
20 whole Site Profile reviewed in effect.

21 CHAIR MUNN: A full review.

22 MR. KATZ: Yes, not just the PER

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1 changes because I don't think it's reviewed in
2 the first place.

3 CHAIR MUNN: And, Ted, do you need
4 anything more from me to present to the Board?

5 MR. KATZ: So what I have is the table
6 with the various discussions.

7 CHAIR MUNN: Okay.

8 MR. KATZ: If there's more detail as
9 background for each of those, that will be handy.
10 But, otherwise, I think the Board can deal with
11 minimal information.

12 MS. K. BEHLING: Okay, yes. Because
13 in that table, I put together just a summary and
14 how the doses were effected and number of cases
15 involved and our recommendations.

16 MR. KATZ: Right. And I'm just
17 talking about really your recommendation column,
18 which is where you, I think, address the fact
19 that SC&A hasn't reviewed those sites.

20 CHAIR MUNN: Correct.

21 MR. KATZ: Yes.

22 DR. MAURO: This is John Mauro. Just

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1 a question for clarity. The name of each of
2 those are very familiar, and it sounds like they
3 may very well have been cases that were reviewed.
4 And in the process of reviewing those cases, to
5 varying degrees, these sites may or may not have
6 had a Site Profile at the time, and this could go
7 back a ways. And, of course, if the case was
8 reviewed, either the DR itself contains the
9 information necessary to review the case or there
10 was, it made reference to, for example, TBD-6000
11 or it had a Site Profile, at least at that time.

12 I just want a little clarification.
13 It sounds like there are, there are Site Profiles
14 for these that were not previously reviewed, and
15 I'm presuming they were not reviewed, at least in
16 part, in support of the cases that were reviewed.
17 The names you just named sound awful familiar.

18 CHAIR MUNN: I think you're correct,
19 John. I think we have, we had looked at them not
20 in this same context as some of our other reviews,
21 I think. But you're right. These are not
22 strangers to us.

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1 DR. MAURO: Okay.

2 CHAIR MUNN: We've all had, we've all
3 had at least some cases from these sites before
4 us.

5 MR. KATZ: So, John, anyway, I think,
6 I'm not sure that's what you're getting at. But
7 in any event, whether you have already, in
8 effect, reviewed them through a DR review or some
9 other means, that will be, obviously, if you see,
10 once you get started on one of these taskings,
11 assuming the Board makes these taskings, that
12 you've already done some work and that's already
13 water under the bridge, that just makes it
14 easier.

15 DR. MAURO: Good. No, that helps
16 clarify.

17 MR. KATZ: Okay.

18 CHAIR MUNN: Alright. Then we will
19 continue to keep these on our radar until we see
20 what the Board does and what time frame we're
21 likely to have after that. That's good to hear.

22 Anyone else, any comments about those

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1 four that we just were discussing?

2 MEMBER ZIEMER: The numbers, it's,
3 in addition to O-59, I think O-49 and O-73. Then
4 was there a fourth one?

5 CHAIR MUNN: No.

6 MR. KATZ: Yes, there's a fourth one.

7 CHAIR MUNN: We have 59, 61, 63, and
8 65 in that grouping, correct.

9 MEMBER ZIEMER: O-59, O-63 --

10 CHAIR MUNN: No, O-61 and O-63, O-65.

11 MR. KATZ: Right. And, Paul, you'll
12 receive, along with the rest of the Board, a memo
13 from me with these items anyway.

14 MEMBER ZIEMER: Okay, thank you.

15 MR. KATZ: You're welcome.

16 CHAIR MUNN: Do we have a report back
17 with respect to Dr. Poston yet?

18 MR. KATZ: Let's check on the phone.
19 Dr. Poston, have you joined us? I sent him, in
20 the interim, an email reminder, but we're still
21 two minutes early. I don't know what his course
22 schedule is and whether this was adjusting time.

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1 I know he intended to join us.

2 CHAIR MUNN: Well, I hesitate to
3 undertake the next item that I have, which is
4 penciled in, which is the subtask 4 reports on
5 four PERs, and I'd like us --

6 MR. KATZ: Okay. If you'll just hold
7 for a minute, let me try to call him.

8 CHAIR MUNN: That's fine.

9 MR. KATZ: Okay.

10 CHAIR MUNN: And we can take a ten-
11 minute break, if we'd like.

12 MR. KATZ: Okay. John, there he is.

13 MEMBER POSTON: Yes, I'm here.

14 MR. KATZ: Okay, super. So that's
15 what we were asking about, whether you joined
16 yet.

17 MEMBER POSTON: I was just waiting for
18 an opportune time to say hello.

19 MR. KATZ: Well, thank you, John.
20 I'm glad you could join us.

21 CHAIR MUNN: This is an opportune
22 time, and howdy. Was someone trying to get my

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1 attention just before --

2 MS. K. BEHLING: This is Kathy. I
3 was just going to suggest that perhaps we wanted
4 to give control of the screen over to Bob. I
5 know that this is his, I believe it's his first
6 time using the software.

7 MR. KATZ: Scary prospect.

8 CHAIR MUNN: Yes, I think that's true.
9 And he does have --

10 DR. ANIGSTEIN: Can I start
11 presenting?

12 CHAIR MUNN: I think you may persist
13 --

14 MR. KATZ: So, Bob, why don't you see
15 if you can get a hold of the screen from your
16 invite.

17 DR. ANIGSTEIN: Okay. Let me see if
18 --

19 MR. KATZ: If you can't, someone else
20 can change the slides for you.

21 DR. ANIGSTEIN: I should start now,
22 right?

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1 MR. KATZ: Yes. I mean, first, you
2 have to put something up on the screen.

3 DR. ANIGSTEIN: Yes, exactly.

4 MR. KATZ: Yes. So there's a little
5 desktop symbol, Bob.

6 DR. ANIGSTEIN: I know how to do it.
7 It's just that my computer is slow.

8 MR. KATZ: Okay, good.

9 MS. JESKE: This is Patricia Jeske
10 just joining the meeting.

11 MR. KATZ: Oh, welcome, Patricia.

12 DR. ANIGSTEIN: Here we go. And,
13 everyone --

14 MR. KATZ: And for the court reporter,
15 that's another member of the public, Patricia
16 Jeske.

17 DR. ANIGSTEIN: Can everyone see me?

18 CHAIR MUNN: We can. How wonderful.
19 Thank you, Bob.

20 MR. KATZ: Yes, you're a star, Bob.

21 CHAIR MUNN: You are. And even I have
22 a screen to watch you on. That's good.

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1 DR. ANIGSTEIN: Yes, just a full
2 screen. Should I start?

3 CHAIR MUNN: Please do.

4 DR. ANIGSTEIN: Okay.

5 MR. KATZ: One thing I should just
6 note, I just want to make sure I have Jim Neton
7 and Dave Allen on the line.

8 DR. ANIGSTEIN: Very good. Okay.

9 MR. KATZ: No, wait. I mean, I don't
10 know that. Do we have Jim and Dave Allen on the
11 line?

12 MR. ALLEN: This is Dave Allen. I'm
13 on the line.

14 MR. KATZ: Okay, great. Jim, are you
15 on the line, too?

16 DR. NETON: I'm sorry, yes.

17 MR. KATZ: Okay, great. Thanks.

18 DR. ANIGSTEIN: Okay.

19 MR. KATZ: Okay. Sorry, Bob.

20 **PER 0057 - Case Selection Status**

21 DR. ANIGSTEIN: Okay. So we were
22 asked to do, under Subtask 4 we were given, NIOSH

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1 had selected five cases from PER 57, which is the
2 Appendix BB Revision 1. There also has since
3 been an Appendix BB Revision 2, but we're not
4 addressing that at this time.

5 We had three findings, three things
6 that we call findings at this point, let's put it
7 that way. The first finding and probably the
8 most significant is that there is an
9 administrative category under Appendix BB, both
10 Rev 1 and Rev 2, which, and I'm quoting from the
11 appendix, the administrative category consists of
12 people that spent most of their time in their
13 office environment and did not routinely access
14 the operating areas of the plant.

15 Now, we did a complete review of the
16 PER cases, in addition to the ones, just for this
17 purpose, in addition to the ones that were
18 assigned to us, and when I say complete review I
19 mean a very cursory review, and identified which
20 ones were put in the administrative category.
21 And one of the cases that we were assigned, plus
22 one other one, we found that, even though the job

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1 title sounded like an administrative job, like
2 supervisor, manager, something along that line,
3 the description in the CATI actually puts them in
4 the plant. Their office location was in the
5 plant, and they frequently had to leave their
6 office to inspect the steel, to inspect the
7 casting, to inspect plant operations. So that
8 does not fit the category of administrative,
9 which is a very occasional, I believe is what was
10 discussed here in the Work Group meeting was
11 somebody, a secretary, working in a separate
12 building. I mean, GSI did have a separate
13 administrative building on the site but at some
14 distance from the steel plant, and the hypothesis
15 was supposedly a manager sends his secretary into
16 the plant and says, you know, Joe, the boss wants
17 to talk to you, would you come with me? So this
18 would be very occasional.

19 These workers were not in that, did
20 not fit that description. They were routinely
21 in the plant, even though they were not
22 steelworkers, per se, and therefore should not be

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1 in the administrative category.

2 Finding 2. This gets a little
3 complicated. NIOSH prepared a set of, a fairly
4 complex set of workbooks to calculate doses from
5 intakes of uranium. Instead of doing a separate
6 calculation for each worker running IMBA, they
7 had a workbook so that, for a certain given intake
8 during the given year, this would be the dose
9 during that year and subsequent years. And we
10 confirmed with a completely independent
11 calculation and got very close to NIOSH numbers.
12 And that worked very fine when it's a uniform
13 exposure for the entire year.

14 However, if the exposure is not for an
15 entire year, what NIOSH did was they simply used
16 the same procedure but prorated the daily
17 intakes. Instead of reducing the time period,
18 they kept the time period as one year but reduced
19 the intakes in proportion, as I'll show in a
20 moment, whereas a more exact dose assessment,
21 which we did in a couple of cases, was to use the
22 actual daily intakes as specified in Appendix BB

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1 and used the actual dates.

2 And an example, which applies to all
3 workers that would have been there in 1952, so
4 this is not any individual worker, the period of
5 operations began October 1st, '52, so this gave
6 92 days in 1952 where the worker could have been
7 exposed.

8 The inhaled intake in 1952 was
9 specified as 114 dpm per calendar day. So the
10 NIOSH method was to take the 114 and multiply it
11 by 92 days and divide it by 365 days for the year,
12 and then they have a derived amount of 28.79 dpm
13 per calendar day, and the exposure is assumed to
14 take place starting January 1st to December 31st,
15 1952. And the lung dose calculated by any worker
16 that would be in this category, the lung dose
17 would be 0.33 rem in 1952. It would be more just
18 during, the liver dose, during that year.

19 However, if you do the more exact
20 method and still assuming 114 dpm per calendar
21 day, but now the exposure doesn't start until
22 October 1st, which is when, in fact, it did start

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1 and go through December 31st, the lung dose for
2 1952, the doses from this intake to the lungs in
3 1952 is 0.2 rem. So the NIOSH dose is 63 percent
4 higher. The explanation is because the uranium
5 starts to accumulate in January and, therefore,
6 has a longer time to reside in the lungs than the
7 liver dose.

8 Conversely, if there was a case where
9 a worker left the employment, say early in the
10 year, his dose for that year from the intake would
11 be understated because it will be assumed by the
12 NIOSH method that he continue receiving the dose,
13 the intake, during the entire year at a much lower
14 daily rate, whereas, in fact, he would have
15 gotten it all early in the year and that uranium
16 would sit in his lungs and deliver dose later.

17 So in both cases that could make a
18 difference. And when you're talking about some
19 cases where the PoC, and this has actually
20 happened very, very close to 50 percent, this
21 could make a difference one way or the other.

22 And then Finding 3 was simply an error

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1 in the calculation where the worker's file
2 described when he left the employment or when the
3 cancer occurred when the dose calculation should
4 have stopped and the actual calculation file
5 showed that he stopped a year later, so there was
6 an extra year which was simply an error in the
7 calculation. And in this particular instance,
8 it probably made very little difference, but it
9 points to a QA issue that such an error had taken
10 place.

11 Okay. The rest we call observations
12 in the sense that we're not certain whether they
13 are major effects or not in the individual cases,
14 but the overarching issues that apply to all
15 cases and, in some cases, they may make more of
16 a difference than in other cases.

17 So the first one is the uncertainty
18 distribution of photon and neutron DCF, dose
19 conversation factors. And NIOSH, in all cases
20 from the ones we examined, where the external
21 exposure was specified as fixed numbers in a
22 given time period, they also used fixed values of

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1 the DCF to convert a dose to a given organ.
2 However, this is inconsistent with the discussion
3 in Chapter 5, I think it is, of OCAS-IG-001, which
4 states that a triangular distribution around a
5 DCF would be appropriate, and the one recommended
6 is, the mode of distribution should be the
7 effective DCF for the most likely geometry, which
8 is, in fact, what is used as the fixed value.
9 However, the minimum should be the geometry that
10 gives the lower DCF and the maximum geometry
11 gives the highest DCF, and this was not done in
12 this instance.

13 The top table here is taken straight
14 out of, it's simply cut and paste, OCAS-IG-001,
15 and it shows the various values of the DCF for
16 converting exposure and roentgen to one dose for
17 photons in the 30 to 250 keV range, energy range.
18 So the table below lists three alternatives. It
19 starts out with the fixed value, which is what
20 NIOSH used, and three alternative distributions
21 that should be considered. One of them would be
22 considering the effective dose -- not effective

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1 dose. Cancel that. The effective DCF and using
2 the triangular distribution for the geometry that
3 gives the minimum DCF, which is the isotropic
4 exposure coming from all directions; the mode
5 being the AP, anteroposterior; and the max being
6 the posterior-anterior, PA. And in such a case,
7 you get, probably the most significant value is
8 the 95th percentile of that distribution because
9 IREP takes the 99th percentile, but it's combined
10 of different distributions. Probably the 95th
11 percentile is close to effective example. And
12 here, instead of 0.986, you get 1.032, so it was
13 five-percent higher.

14 The next one, which is the most, which
15 seems to be the most practical because it takes
16 in the entire range, it goes from the minimum DCF
17 to the maximum DCF of all the numbers in this
18 table, and so that goes from a minimum of 0.128
19 to a maximum of 1.26, and you get a 95th
20 percentile of 1.135, which is about 15-percent
21 higher than the fixed value.

22 And then, finally, there's the one

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1 that NIOSH uses, and that's staying with the,
2 contrary to the recommendation in Chapter 5 of
3 OCAS-IG-001, it uses a range not of different
4 geometries but a different energy range within
5 that geometry, within the AP geometry. And based
6 on that, this range, we end up with a 95th
7 percentile of 1.078, which is about nine-percent
8 higher.

9 So our recommendation is that there
10 should be a distribution of DCF whenever external
11 exposures are assigned fixed values. And a
12 triangular distribution, the one on the second
13 line here in the maximum range, is the most
14 claimant-favorable.

15 Next, in the first ten years of the
16 operation of the covered period, it was agreed on
17 during the Work Group meetings that the external
18 exposure would be modeled as a triangular
19 distribution. And the graph here, the red
20 triangle, represents that distribution. It goes
21 from 6 point-something per year to 15 per year,
22 which would be the stipulated regulatory limit

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1 during that period of time.

2 So here NIOSH employed, shown by the
3 black triangle, the dose conversion factors to
4 the lung over using the energy, the energy
5 distribution here. And the way they combined it
6 is it simply took the minimum of this triangular
7 distribution and multiplied it by the minimum of
8 this triangular distribution to get the blue, the
9 minimum of the blue triangle. And they did the
10 same thing with the mode, multiplied by this mode
11 to get a mode close to one, so it looks almost
12 the same. And then the maximum, again, times the
13 max, and we get this.

14 So they ended up with another
15 triangular distribution. Implicit in this
16 assumption is that there is a perfect correlation
17 between the uncertainty in the DCF and the
18 uncertainty in the external exposure. But it's
19 simply not scientifically correct. There's no
20 reason why the two would be correlated.
21 Therefore, the blue triangle, which is the
22 distribution that they do use, we don't agree

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1 with.

2 Instead, what we did was we did a
3 Monte Carlo sampling. We simply sampled from
4 this distribution. We took one value from this
5 distribution and one value from this
6 distribution, randomly sampled, multiplied the
7 two together, and repeated this procedure one
8 million times.

9 That sounds scary, but that's only two
10 minutes of computer time once we get set up. And
11 we ended up with a distribution on the right which
12 looks very similar to a normal distribution.
13 There is a cutoff here, which is an artifact of
14 the plotting program. In reality, it goes on,
15 the maximum value would be about the same as this
16 maximum value.

17 And it's slightly asymmetric, and
18 there's a little more detail on the right. But
19 for practical purposes, given that IREP, you
20 know, limits how many distributions you can put
21 in, a normal distribution would be a very good
22 approximation, and the same Monte Carlo programs,

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1 a program called Crystal Ball, which is an add-
2 on to Excel, would tell you what the median is,
3 what the standard deviation is, and that simply
4 defines a normal distribution.

5 So we would recommend that NIOSH looks
6 into doing something like this. It has to be
7 done for each organ, but only has to be done once,
8 so it would be a very modest effort. And then
9 this could be put into the worksheets.

10 The next observation we have is one of
11 the IREP inputs is to specify whether the
12 exposure rate is acute or chronic. So in the
13 case of external exposures, we observed, looking
14 at at least five cases, that it appears that NIOSH
15 seems to have a blanket policy that all photon
16 and electron external dose rates are designated
17 acute and all neutron external dose rates are
18 designated chronic.

19 In reality, some exposure scenarios
20 produce doses that are inherently chronic. For
21 instance, during the residual period, the
22 worker's in contact with this vacuum cleaner for

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1 3,250 hours a year. Well, that's a chronic
2 exposure. It's getting the same exposure minute-
3 by-minute, hour-by-hour, every single workday.

4 Similarly, a worker in contact -- the
5 layout man is in contact with irradiated steel
6 for 3,250 hours per year. Again, that's a
7 chronic exposure. You have a piece of steel in
8 front of you, you're marking it up, working with
9 it. And that would be much more like a chronic
10 exposure rate.

11 On the other hand, the neutron
12 exposure rate, which is listed as chronic, should
13 be more -- would seem to be more likely to be
14 acute, because the neutrons come from the
15 betatron itself. And we assume that the worker
16 is just outside the betatron building and he's
17 getting some sort of radiation from the betatron.
18 Well, the betatron is pulsed 180 times a second,
19 and each injection pulse is 4 microseconds. So
20 there was about 5.5 milliseconds between pulses,
21 and the pulse is 4 microseconds, so it's less
22 than 1/1000th of that time. And then you add to

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1 that the fact that the betatron duty cycle is
2 only 41 percent.

3 So the worker is really exposed for,
4 I'm just guesstimating, like a few seconds during
5 a day, or less than a minute. I think I came up
6 with eight and a half minutes or eight and a half
7 seconds during the year. This is vague memory.
8 But it's clear that it's an intense intermittent
9 exposure, and therefore -- and then, furthermore,
10 since the photons from that same source, in the
11 NIOSH model dose reconstruction, are
12 characterized as being acute, it doesn't make
13 sense, from the same betatron, from the same
14 betatron target, that the neutrons would be
15 chronic and the photons would be acute. So we
16 recommend that the neutrons should be acute in
17 this instance.

18 Finally, there was a question of
19 assigning medical X-rays. All GSI workers were
20 assigned doses from medical X-rays. However, in
21 reviewing the CATI reports, NIOSH seemed to
22 ignore the worker's statement when he answered,

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1 no, medical X-rays were not required, at least in
2 this instance. So it doesn't seem logical that
3 he should be assigned medical X-rays when he said
4 he didn't have any. I thought the CATI report
5 should be paid attention to.

6 And then, finally, was the place of
7 employment. Now, the majority of the cases
8 selected by NIOSH for SC&A review were employed
9 Granite City Steel, not at GSI. Granite City,
10 so we reviewed them anyway, but they used the
11 methodology for Granite City Steel, so we
12 reviewed them as if they had been at GSI. But
13 in fact, they weren't. And Granite City Steel
14 was not a covered facility until 1974 when they
15 acquired the GSI site. This was already during
16 the residual period. GSI had shut down
17 operations and simply sold them the grounds,
18 which they then, because they were south of the
19 Granite City facility, they're referred to as the
20 South Plant, as opposed to the old one that was
21 the North Plant.

22 So the only Granite City Steel

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1 employees that would be covered for exposure
2 would be the residual contamination, only if they
3 worked in the South Plant between 1974 and 1993.
4 And there was a DOL circular to that effect. So
5 this is something that should be noted in future
6 cases, that the CATI report, in which case gives
7 the work location -- and this is something that,
8 even if NIOSH comes across a case, it seems that
9 they should review it and notify DOL as to whether
10 or not that worker, in fact, was working at the
11 covered facility.

12 Okay. I'm done but happy to answer
13 questions.

14 CHAIR MUNN: Thank you very much, Bob.
15 That's a thorough review.

16 DR. ANIGSTEIN: Excuse me, Wanda.
17 I'm having a little trouble hearing you.

18 CHAIR MUNN: I was just thanking you
19 for a very thorough report.

20 DR. ANIGSTEIN: Oh, thank you.

21 CHAIR MUNN: It's much appreciated.
22 Questions, comments?

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1 MEMBER ZIEMER: This is Ziemer. I
2 have a question, Bob, on the acute versus chronic
3 definitions. I get what you're saying about the
4 pulsed radiation that looks acute in the sense
5 that the pulse time is very short. However, you
6 have the issue of individuals being exposed, even
7 though at a short, on a daily, for example, basis.
8 So although there are bursts of radiation given,
9 it's not like all their exposure for the year
10 occurred in one day. It's still chronic in the
11 sense of it being stretched out over the year.

12 My understanding of the way these
13 biological sets are evaluated is that the chronic
14 really applies to the case where you have
15 repeated doses over an extended period of time.
16 I'm not sure -- I may not be aware because I
17 haven't dealt with accelerated radiation that
18 much in terms of the pulsed stuff, and maybe John
19 Poston can fill me in on that a little bit, but
20 is that acute just because it's pulsed? And
21 maybe, Jim Neton, you can help me on that.

22 MEMBER POSTON: I sort of have the

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1 same concern. I was trying to listen carefully
2 to what Bob was saying, but I don't think that's
3 the way I would have looked at it. But I'll have
4 to think about it a little bit more before I jump
5 in.

6 DR. MAURO: This is John Mauro. I
7 have a thought on this. I think the acute versus
8 chronic issue goes to IREP and the way in which
9 they calculate the Probability of Causation and
10 the distinction that's made between when that
11 particular dose is called acute and when it's
12 called chronic. And there's a quantitative
13 effect that comes out of that when you're doing
14 IREP.

15 I don't have the answer, but I think
16 the answer --

17 DR. NETON: John, you're right. Go
18 ahead.

19 DR. MAURO: Okay. All I was going to
20 say is I think the answer to this question lies
21 there, that distinction --

22 DR. NETON: Well, it is, and it has

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1 to do with the dose and dose rate effectiveness
2 factor that's applied. And we typically pick the
3 one that gives the higher Probability of
4 Causation given in a certain exposure mode. And
5 in the case of photons, it's better to be one
6 way. In there case of neutrons, it's better to
7 be the other way. And that gives you a higher
8 PoC value. That's why it's done that way.

9 MEMBER ZIEMER: It really has to do
10 with the calculation itself.

11 DR. NETON: Exactly.

12 MEMBER ZIEMER: Thanks for clarifying
13 that.

14 DR. ANIGSTEIN: My thought would be
15 that, first of all, with the neutrons, whatever
16 it is, the neutron and the photon from the same
17 source should be the same type of exposure. And
18 my impression, and I would be pleased to be
19 corrected, is that the acute usually gives you
20 the higher PoC. It has greater effects. That's
21 --

22 DR. NETON: That depends on whether

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1 it's neutrons or photons.

2 DR. ANIGSTEIN: There's a difference
3 with neutrons and photons?

4 DR. NETON: Yes, it is. It's the
5 opposite.

6 DR. ANIGSTEIN: I see. Okay. That's
7 why I said observation and not a finding because
8 it's just a topic for discussion. We don't have
9 a strong position on this.

10 CHAIR MUNN: Well, it's certainly a
11 curiosity, and I appreciate the comments that
12 have been made with respect to clearing that up.
13 Common sense would follow Bob's rationale, but I
14 can certainly see what you're saying, Jim.

15 MEMBER POSTON: It also goes back to
16 what's happening to the observer, that is, the
17 person being exposed. I mean, the badge that the
18 person's wearing can't tell, you know, that
19 they've been pulsed or a constant, because it
20 looks like a constant if you're sitting out there
21 with any kind of radiation detector. Unless it's
22 very sensitive, you probably won't even see it

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1 move in terms of when the beam is on and when the
2 beam is off, so to speak.

3 CHAIR MUNN: Well, they're very rapid
4 pulses, also.

5 MEMBER POSTON: Yeah.

6 CHAIR MUNN: So are we happy with --
7 can we accept then that the NIOSH approach in
8 that regard is accurate, given the constraints
9 under which those decisions must be made? It
10 seems so to me.

11 MEMBER ZIEMER: Yeah, that seems
12 fine. I had a question on the medical, also. I
13 understand Bob's concern about checking the CATI,
14 and I'll ask Jim Neton this question: don't we
15 establish for a facility either, yes, they do
16 annual X-rays or they don't? And if they do, you
17 assign it for everybody regardless of what the
18 CATI says, you give them a medical exposure?

19 DR. NETON: In general, yes. If it's
20 decided that it's a medical X-ray that was
21 administered, that will trump an individual case.

22 DR. ANIGSTEIN: Again, that's what we

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1 made it an observation. We don't have a strong
2 -- we're not coming down firmly.

3 MEMBER ZIEMER: Yeah, it's only if
4 it's an individual does it apply to the medical
5 X-ray. If it's decided that at GSI we would
6 assign it, everybody gets that exposure assigned
7 whether or not they remember having it, right?

8 CHAIR MUNN: Right, I believe.

9 MR. ALLEN: Hi, Paul, this is Dave
10 Allen. I just wanted to say that, for what
11 you're talking about, you're absolutely right.
12 We do look at the CATI, but we look at the CATI,
13 there's an overall for the site, because the
14 policy of taking x rays as a condition of
15 employment is generally not going to be a case-
16 by-case decision that a site is going to make.
17 They're going to make it for all the employees.

18 And it's not unusual for the CATI, for
19 one person to say they were not taken and another
20 person saying they were and many people to say
21 they don't know. So we kind of look at them
22 overall and see if there's a clear answer or if

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1 we just don't know. And if we don't know, we
2 assign them. So we wouldn't assign or not assign
3 based on a single CATI, but we might use the CATIs
4 overall as a decision point for the site.

5 DR. ANIGSTEIN: Okay, that's
6 reasonable.

7 CHAIR MUNN: So this brings us to the
8 big question with respect to the findings
9 themselves. We have been given three specific
10 findings. And, in my view, it's now appropriate
11 for NIOSH to have an opportunity to respond to
12 those in the appropriate fashion and the one to
13 which we're accustomed, unless we can resolve any
14 one of those three in discussion today.

15 What's your feeling, NIOSH? Can any
16 one of these be resolved here in discussion, or
17 do you need opportunity to report finally on all
18 three?

19 MR. ALLEN: I think it might be worth
20 discussing. I don't know if we can resolve them
21 or not, but I think it's worth discussing today
22 briefly.

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1 CHAIR MUNN: Then let's do that.

2 MR. ALLEN: Okay.

3 CHAIR MUNN: It's your mic.

4 MR. ALLEN: Okay, Wanda. This is
5 Dave Allen. Starting from the beginning there,
6 Finding Number 1 was a finding that we had someone
7 we assigned in the administrative category and
8 Bob disagreed that it should have been
9 administrative category and felt it should be
10 radiography category.

11 I went back, I looked at that
12 particular case, and, I mean, the job title was
13 something like office manager for that, and I
14 expect it got assigned based on job title. If
15 you dig into the CATI like Bob did, you find out
16 the office was actually within the production
17 area. And from discussions we've held in the
18 past, that should have been probably assigned as
19 a radiographer.

20 And the question is, what do you do
21 about that at this point? And, normally, it
22 would be an error in an individual dose

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1 reconstruction and then we'd decide how we're
2 going to correct that error. In this particular
3 case, that is, one of these people, it looks like
4 they were not actually employed at that site. So
5 I don't think, for the particular case, there's
6 much we can do as far as correcting anything.

7 I don't know if anybody has any
8 feelings on that or not.

9 CHAIR MUNN: Do we have a single case
10 there?

11 MEMBER ZIEMER: As a matter of
12 principle, you would agree that if the CATI did
13 show that, then you have to take it into
14 consideration and you have to go back and adjust
15 the dose reconstruction, correct?

16 MR. ALLEN: Yeah. We always have the
17 possibility of an error one way or another
18 somewhere. In this particular one, as long as
19 we're going to say that somebody working in the
20 office, and the office was within the production
21 area, and that should be radiographer dose, then,
22 yeah, that would be an error in the case.

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1 DR. ANIGSTEIN: Dave, I can't cite
2 this on the phone, but if you look at the full
3 report, towards the back, I believe, there was
4 another case that we found, not one of the five
5 cases that were assigned to us, where it was a
6 GSI worker.

7 MR. ALLEN: Yeah, I did see that in
8 your report, and I haven't had a chance to
9 actually open up that particular one yet. But
10 if that is the same situation, then the
11 corrective action would be, you know, if someone
12 has pointed out an error we've made, we would go
13 back and contact Department of Labor and try to
14 get that case back.

15 DR. ANIGSTEIN: Okay, Dave, you and I
16 can communicate offline on that, if you wish.

17 DR. MAURO: This is John Mauro. This
18 raises an interesting point, just a policy issue.
19 When we're doing a case, as Bob has just
20 described, and it turned out in this particular
21 case it's a moot point because he didn't work
22 there, do we find ourselves in a situation where

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1 we should be looking at other -- this is a very
2 nice example where we say it looks like this a
3 place, appropriately, where there's discretion on
4 the part of the dose reconstructor on where do we
5 assign a person. There's many such situations
6 where this had the discretion that needs to be
7 made, and in this particular case we did not agree
8 with the discretion and we gave our reasons.

9 When we're in a similar situation in
10 other cases, for other PERs, should we be doing
11 that? That is, does it add value where we would
12 go say it looks like they made a judgment error
13 here and let's go take a look at how widespread
14 this error might be or if this is just one of a
15 kind. I guess a little direction, if you hadn't
16 already resolved this, I'd like to hear, you
17 know, your position regarding this matter.

18 MR. ALLEN: I think that's a question
19 for the Work Group, right, John?

20 DR. MAURO: Yes, I think it's for the
21 Work Group and maybe the Board. You know, it's
22 sort of like the scope of our PER role, that we

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1 sort of go outside and say, listen, you know,
2 we're going to look around a little further to
3 see if this is a problem that may have
4 implications to other cases at this facility. I
5 guess this goes towards the Work Group.

6 MR. KATZ: John, I can weigh in on
7 this. I mean, it's really hard to imagine -- I
8 mean, it all depends, I think, on whether there's
9 some reason to suspect that there may be a
10 widespread problem, because we're not trying to
11 -- we're not getting a statistical sample of
12 cases for any of these PERs, and that's not even
13 the point.

14 So I think were SC&A to be concerned
15 that there may be a widespread problem, for
16 whatever reason, I think the thing to do at that
17 point is to state, to send a memo saying, "we've
18 been reviewing this, you know, PER and we've come
19 across this case and it has X problem with it,
20 and we're concerned that this problem may be
21 widespread and this is the reasons why we're
22 concerned, and does NIOSH want to look at a

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1 broader sample to see if this is a widespread
2 problem," because it's not even necessarily SC&A
3 that would go look and see if this is a widespread
4 problem.

5 DR. ANIGSTEIN: This is Bob. We
6 looked at all the PER, all the cases under the
7 PER, and only found one other case where this
8 problem occurred.

9 MR. KATZ: Okay. So in this case,
10 but I'm trying to answer, I guess, John's --
11 thanks, Bob, that's helpful. So here it does
12 sound like it wasn't a widespread problem. But
13 were you to have concerns, I think the thing to
14 do anyway is to state your concerns, send them in
15 a memo, and then the Work Group or the
16 Subcommittee or the Board can consider. So I
17 think that's what to do.

18 DR. MAURO: Very good. And I
19 appreciate that. Thank you.

20 CHAIR MUNN: And I think Ted is
21 absolutely correct. In response to your earlier
22 question, John, that question has been pondered

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1 and has been discussed in at least two or three
2 venues that I can think of in recent years, and
3 in distant years as well. And my personal
4 observation in that regard is, if you asked eight
5 people that same question you'll get about ten
6 different answers, and most of them having to do
7 with the degree to which that individual is
8 comfortable with the basic concept of
9 professional judgment being exercised.

10 And as I said, it's been discussed
11 widely, and I don't know of any resolution that
12 has been proposed anywhere, except to try to make
13 sure that every dose reconstructor does the same
14 thing with every dose every time. And I have yet
15 to be convinced, personally, that that is
16 reasonable and acceptable.

17 But Ted's response with respect to if
18 you think there's a problem we need to know about
19 it is absolutely correct, from my perspective.

20 DR. MCKEEL: Chairman Munn, this is
21 Dan McKeel. May I please make -- I know it's
22 irregular, I know it's unusual, but I need to

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1 correct a major mistake that's gotten on the
2 record in the last few minutes.

3 CHAIR MUNN: If you would, go right
4 ahead. Very briefly, Dan, please.

5 DR. MCKEEL: Very briefly. At the
6 May meeting of this Subcommittee, I submitted a
7 paper that contains letters from the Department
8 of Labor, Rachel Leiton and John Vance, showing
9 unequivocally that for PER-50 and PER-57 GSI,
10 there were 15 cases that DOL acknowledges had the
11 wrong employment. So that's 15 on the shortlist
12 of 100 cases that were probably compensable.
13 Now, that's not the same as just one case. And
14 this is from the Department of Labor.

15 I also have to say that I'm shocked
16 that nobody has brought up the fact that these
17 cases, five cases, were selected by NIOSH. And
18 three of the people didn't even work at GSI. And
19 so a dose reconstruction done for them is
20 inappropriate and it shouldn't be weighed in the
21 kind of analysis you all are making.

22 How could it possibly be accurate --

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1 for example, Granite City Steel didn't have any
2 of the source terms, the same ones that they had
3 at GSI. I think those three cases have to be
4 thrown out and three more appropriate cases where
5 people who worked at GSI have to be substituted.

6 That's all I need to say. Thank you.

7 CHAIR MUNN: Thank you.

8 MEMBER BEACH: Wanda, this is Josie.
9 I have a question for NIOSH on part of what Dan
10 said, that DOL identified 15 cases. Does DOL
11 have some kind of a way that they say to NIOSH
12 that there's an issue in that regard? If they're
13 seeing something, is there any process in place,
14 I guess is what I'm asking.

15 MR. HINNEFELD: This is Stu. You're
16 asking is there a process in place if they see
17 something about maybe they sent us a claim that
18 shouldn't have had verified employment?

19 MEMBER BEACH: Or 15 that were listed
20 as incorrect employment listed.

21 MR. HINNEFELD: My experience has
22 been that if, once Labor sends us a claim, that

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1 there's little -- I don't think we have a
2 mechanism to kind of go back and check to make
3 sure that they sent it to us correctly. What
4 generally happens if they send us a claim that
5 was incorrectly verified, employment was
6 incorrectly verified, we'll work the dose
7 reconstruction and send it back. And then, at
8 times, when it goes to their final adjudication
9 branch, they may find out at that time that the
10 employment was incorrectly verified and they'll
11 not proceed with the case at that time. At
12 times, that might happen. That doesn't always
13 happen.

14 MEMBER BEACH: Well, will that come
15 back to NIOSH or --

16 MR. HINNEFELD: Well, no, if there's
17 no verified employment, it won't come back. You
18 mean will we hear?

19 MEMBER BEACH: Okay. So I'm not
20 talking about non-verified employment. I'm
21 talking about if a person is incorrectly labeled
22 as an office worker when they should have been

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1 labeled as something else. I think that's what
2 Dan was referring to.

3 MR. HINNEFELD: I don't think Labor
4 has a way to verify that.

5 DR. MCKEEL: No, Josie --

6 MR. KATZ: Josie, what Dan is
7 referring to is people that didn't work at GSI
8 but worked at the other facility.

9 MEMBER BEACH: Oh, okay.

10 DR. MCKEEL: Never worked at GSI.

11 (Simultaneous speaking.)

12 MEMBER BEACH: Okay, thanks.

13 CHAIR MUNN: Alright. Can we move
14 on, then? Dave, we were speaking to findings.

15 MR. ALLEN: Okay. Moving on to
16 Finding 2. Finding 2 we were using a tool we had
17 that used some look-up tables, and, as such, it
18 can only do full-year chronic intakes. And
19 because of that, we were prorating partial years,
20 essentially prorating the intake rate for partial
21 years.

22 Bob mentioned that for that first

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1 year, the 1952, he did some calculations and
2 showed that our dose for the lung some 63-percent
3 too high that first year. And that is true, but
4 what I'd like to point out is the second year
5 then, the doses, when you do this technique, the
6 second year tends to be lower, second and
7 subsequent. The total dose ends up being
8 reasonably close pretty quickly.

9 In fact, after the second year, it's
10 within about six percent of what you would get
11 with the correct dates used. After five years,
12 you're within about two percent, the total dose,
13 with the two techniques.

14 And so the only way you're going to
15 get that kind of 63 percent error that's
16 associated really with the PoC is if somebody was
17 diagnosed within a year of that initial exposure,
18 and then the latency is going to be such an issue
19 it's not really going to add anything to the PoC.

20 So I agree with Bob that, for cases
21 that are very close to 50 percent, we probably
22 should not have been using that little efficiency

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1 method. And normally we wouldn't. I'm not sure
2 how this one really did.

3 But I did go back to this particular
4 case and ran it in the way you would normally run
5 it. This particular case came out 50.88 percent.
6 And when I re-ran it in IMBA, because it was
7 prorated on the front end and the back end, it
8 varied for some statistics. When I re-ran it and
9 put the doses in the IREP, I ended up with a 50.66
10 instead of 50.88. It's not a huge difference
11 there. And, like I said, the total doses tend
12 to round that off to where it's an efficiency
13 measure that has a little bit of inaccuracy, but
14 it's not huge.

15 CHAIR MUNN: So how do we address that
16 finding, then? And can you accept that, Bob, as
17 being a reasonable explanation?

18 MR. ALLEN: Well, one more bit of
19 information on that was -- no, I take that back.
20 Never mind.

21 CHAIR MUNN: Oh, okay. Bob?

22 DR. ANIGSTEIN: We did look at the

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1 entire run, looked at it both ways. Am I
2 audible?

3 CHAIR MUNN: Barely.

4 MR. KATZ: Your other phone is better,
5 Bob.

6 DR. ANIGSTEIN: Will do.

7 CHAIR MUNN: Much better.

8 DR. ANIGSTEIN: Okay. Yes, we did
9 look at that, but always the question is there
10 will be some close cases, so it may be two-tenths
11 of a percent sometimes, you know. I heard
12 anecdotally that somebody came out at 49.75 or
13 something like that percent. So it does strike
14 me as, that when it's close, when it's within one
15 or two percent of the 50 percent, then it should
16 be re-run. That's not too much of a burden,
17 because most of them are either well above 50 or
18 well below 50.

19 And, incidentally, when they are
20 nowhere near 50, NIOSH does even more, doesn't
21 even bother with the prorating. They just give
22 it the full year's worth because they say it won't

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1 make any difference, which is okay, as long as
2 those are cases that are clearly very high or
3 clearly very low.

4 So, we can't dictate NIOSH policy, but
5 I would say to go the extra step for those very
6 close cases because there could be cases where
7 maybe when the diagnosis is early in the year
8 I've notice they also give the full year's worth.
9 I guess that just my personal inclination would
10 be to do the more accurate method, particularly
11 since it only needs to be employed in the minority
12 of the cases, not all of them.

13 MR. ALLEN: This is Dave. I had to
14 double-check before I spoke up again. As I
15 mentioned, this was a tool that we had been using
16 that could only do full-year intakes. And, for
17 a number of reasons, it's much easier to run with
18 this tool than with IMBA, which is why they tend
19 to like to do that.

20 The piece of information you probably
21 should know then is that the tool was updated not
22 too long ago to where now we don't have to do

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1 full-year intakes. We can do partial-year up to
2 the date to where I think the problem itself, or
3 the whole efficiency idea just went away with
4 this, with the change to the tool.

5 DR. ANIGSTEIN: Yes. We ran IMBA --
6 Kathy Behling sort of helped me out with that --
7 and I was able to do -- according to the IMBA
8 format, you can do ten different time periods.
9 Somehow it didn't work, but she was able to do
10 nine time periods in one run. So it doesn't seem
11 like it should be --

12 MR. ALLEN: Yeah, you just have to
13 stick each one individually and go through the
14 whole thing, whereas with this other tool you
15 just set the time period. It's quite a bit
16 simpler.

17 DR. ANIGSTEIN: No, no, there's no
18 question that this is simpler. I'm just
19 recommending that, again, in those few cases it
20 appears it comes very close to 50, like within a
21 percentage point or so, NIOSH would consider, you
22 know, re-doing the IMBA.

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1 MR. ALLEN: And like I said, the
2 reason for the efficiency was this tool wouldn't
3 do that, and now, as of a few months ago, it does
4 do that. So I think the whole -- I agree with
5 your recommendation, but I think it's kind of
6 moot now. We can actually do it for every case
7 pretty easy now.

8 MR. KATZ: So it looks like, Wanda,
9 this is one the Subcommittee can consider
10 closing.

11 CHAIR MUNN: Yes, it is. That was to
12 be my question. Are we satisfied that we
13 understand what the issues are and they are, at
14 this point, probably moot for future cases and
15 this one can be closed or not? What's your
16 feeling, Bob?

17 DR. ANIGSTEIN: Again, I would argue
18 for -- I'm not quite sure I understood what Dave
19 said. Is the methodology going to be different
20 than in the cases we reviewed? Has the tool been
21 changed?

22 MR. KATZ: Yes, Bob. What Dave said

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1 is that the tool has been changed so it uses the
2 procedure that it should have used but for the
3 want for efficiency. So it's a moot issue.

4 DR. ANIGSTEIN: Oh, then it's closed.

5 MR. KATZ: Right.

6 CHAIR MUNN: That's good. Can we
7 please make a note to that effect on the BRS?

8 MEMBER ZIEMER: I'd be willing to
9 close this issue. I think we would like
10 something in writing, since NIOSH, the official
11 response somewhere in the system.

12 MR. ALLEN: You're talking about into
13 the BRS?

14 MEMBER ZIEMER: However we want to do
15 it.

16 DR. ANIGSTEIN: It would be easier if
17 there was a memo --

18 MR. KATZ: Yeah, this is Ted. It
19 would be better to have a piece of paper so that
20 the Board can close out this review, too.

21 CHAIR MUNN: And so that it can, in
22 effect -- if the paper itself could be used as

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1 the closer attachment for this finding that would
2 be helpful.

3 MR. ALLEN: Okay. And that's for all
4 findings or just the --

5 CHAIR MUNN: No, we were only
6 discussing Finding 2. We haven't actually gone
7 through this specific exercise with Finding 1 and
8 we haven't discussed Finding 3 yet. But we will,
9 we will address those very shortly. This is for
10 Finding 2 specifically, Dave.

11 MR. ALLEN: Okay.

12 MR. KATZ: Well, actually, but we do
13 ultimately want paper on them all.

14 CHAIR MUNN: Yes, yes, we do, with the
15 possible exception of Finding 3. That might not
16 be necessary, given the fact that it is,
17 effectively, a QA issue and doesn't impact this
18 case. It seems to me we ought to be able to
19 close that here if there's no objection.

20 Bob, is there any objection to closing
21 Finding 3?

22 DR. ANIGSTEIN: I agree that it

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1 doesn't even have to be re-run so long as NIOSH
2 makes a note of the fact.

3 CHAIR MUNN: Good. If we could then,
4 in fact, close Finding 3, which leaves us with
5 Finding 1. The fact that the business of
6 assigning job categories is problematic, and has
7 been from the very outset, I don't know how much
8 more we can say about that.

9 There is one thing that I might
10 request. I would ask our NIOSH colleagues, for
11 the sake of our public listening and concerns
12 with these cases, could you please clarify the
13 way we do case selection for our PERs and the
14 focus that we place?

15 Dave, would you, or Jim, please, just
16 very briefly go through the process that we
17 exercise in order to select cases for SC&A to
18 look at when we're reviewing a PER?

19 MR. HINNEFELD: Well, this is Stu. I
20 guess I can take a shot at that.

21 CHAIR MUNN: If you would, please.

22 MR. HINNEFELD: Well, SC&A, when they

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1 do the task 1, 2 and 3 review of the PER,
2 generally, at that time they determine
3 characteristics of cases that would be affected
4 by the PER, and, therefore, it would be
5 beneficial to see if those cases, you know, to
6 take selection of one or two from the categories
7 that are affected and review those cases.

8 And so the selection depends on what
9 change the PER is supposed to cover. The
10 characteristics may be a characteristic of a time
11 period or a type of dose, like internal or neutron
12 or something like that. And so based on whatever
13 the characteristic is of the change that gave
14 rise to the PER, that causes SC&A to decide, well,
15 we should look at these categories of cases.

16 And so once they tell us the category,
17 then, typically, well, they have to be described
18 in criteria that we can search our database on,
19 at least to a certain extent. And then sometimes
20 it requires an actual eyes-on look at the case to
21 see if it fits the criteria. We'll select the
22 number that are asked for from each category and

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1 provide them the claim numbers. And then, once
2 they have the claim numbers, they have access to
3 all the files and can do the reviews.

4 CHAIR MUNN: And they do the
5 selection, correct?

6 MR. HINNEFELD: I think, in many
7 cases, we select the cases.

8 CHAIR MUNN: You select the ones that
9 are available.

10 MR. HINNEFELD: Well, they give us
11 criteria.

12 CHAIR MUNN: Yes.

13 MR. HINNEFELD: And from those
14 criteria --

15 CHAIR MUNN: They give you the
16 criteria and tell you how many they want from --

17 MR. HINNEFELD: Yes, and I think we
18 select them.

19 CHAIR MUNN: Right. And then provide
20 them with the case numbers.

21 MR. HINNEFELD: Yes.

22 CHAIR MUNN: And they proceed from

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1 there.

2 MR. HINNEFELD: Yes.

3 CHAIR MUNN: Now, with respect to PER
4 57, with Finding 1, there is a concern with
5 respect to the selection of categories of
6 workplace titles. We have not heard any
7 discussion, that I'm aware of, that would resolve
8 this concern once and for all, either here or in
9 any other site of which I'm aware.

10 Is there anything else that anyone
11 wants to say with regard to this dilemma that we
12 face and whether or not we can pursue Finding 1
13 further than Bob has taken it?

14 DR. NETON: Wanda, this is Jim. I
15 think this is a unique situation. We envisioned,
16 when we created this administrative category,
17 that there would be very few cases. And, in
18 fact, there were very few cases. I don't know
19 the exact number, but I want to say it's less
20 than a handful.

21 CHAIR MUNN: Yeah, I don't remember
22 more than three or four.

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1 DR. ANIGSTEIN: This is Bob. There
2 were exactly three cases.

3 DR. NETON: And so only three people
4 out of the entire GSI site were assigned this
5 administrative dose and all three have been
6 looked at.

7 CHAIR MUNN: Yes.

8 DR. NETON: So I don't know that
9 there's any more to do on this, other than --

10 (Simultaneous speaking.)

11 DR. NETON: Right. I don't know if
12 there's anything more to do other than review the
13 three cases again against SC&A comments and
14 correct the one or so that may require to be
15 modified based on a new interpretation. We've
16 looked at the entire universe of cases.

17 CHAIR MUNN: I personally can see no
18 profitable way to pursue this. I don't see that
19 we can any further resolution of the question
20 than we have now. I'm just asking, am I
21 overlooking something? Is there some other
22 avenue of resolution that we can pursue that we

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1 have not considered?

2 MEMBER ZIEMER: Well, I think we have
3 the resolution, and that is NIOSH is reviewing
4 the case that brought up the issue, and the other
5 two cases. If that's being done, I'm willing to
6 close the finding.

7 MR. KATZ: In my notes, you actually
8 did close it already.

9 MEMBER ZIEMER: Well, okay.

10 CHAIR MUNN: Well, we had left that
11 impression, but nobody said the words, that I was
12 aware of.

13 MR. KATZ: Okay. Because I normally
14 don't write it down until you do, but okay.

15 CHAIR MUNN: Okay. Josie, do you see
16 any further action that needs to be taken?

17 MEMBER BEACH: No, I don't at this
18 time.

19 CHAIR MUNN: Does anyone else have any
20 comment with regard to Finding 1? If not, then
21 we will recommend that we close this finding,
22 that it's been pursued to the best of our ability,

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1 and it's now closed. Do I have three votes yes?

2 MEMBER ZIEMER: Yes.

3 MEMBER POSTON: Yes.

4 MEMBER BEACH: Yes.

5 CHAIR MUNN: Very good. Then let's
6 make one final question, whether there is
7 anything further that we can say or should say
8 with respect to GSI and this particular PER.

9 MEMBER ZIEMER: Well, let me ask a
10 question for clarity. It's related to the issue
11 that Dr. McKeel raised. How many of the reviewed
12 cases, Bob, that you had were not actually ones
13 that were at GSI in either the normal period or
14 in the residual period?

15 CHAIR MUNN: I'm sorry. How many
16 what, Paul?

17 MEMBER ZIEMER: How many cases that
18 were reviewed by SC&A were actually not employed
19 at GSI?

20 DR. ANIGSTEIN: Three out of the five
21 cases were not at GSI.

22 MEMBER ZIEMER: So they were people

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1 who we did a dose reconstruction on that actually
2 were never exposed, correct?

3 DR. ANIGSTEIN: Yes, there were three
4 cases, out of five cases that were selected by
5 NIOSH for SC&A review, three were not GSI
6 employees and they did not fall under EEOICPA.

7 MEMBER ZIEMER: But Labor still
8 considers them to be GSI employees or not?

9 DR. ANIGSTEIN: Well, I think what
10 happened was that they were -- I traced that.
11 When the initial dose reconstruction was done on
12 those cases back in summer of 2007, and, at that
13 point, that's when we first got acquainted with
14 GSI and I think John Mauro, either he met, I
15 think, Dr. McKeel or John Ramspott, and, at that
16 time, there was a belief and understanding that
17 Granite City Steel and GSI were synonymous.

18 And then in November of 2007, DOL
19 issued a circular outlining that, no, these are
20 two different facilities. And the problem was
21 that, by the time they were doing the dose
22 reconstruction, the GSI site had been purchased

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1 by Granite City Steel, which then became acquired
2 by, I think, National Steel and a whole sequence
3 of things. So it was understandable that that
4 mistake would have been made initially.

5 MEMBER ZIEMER: Those individuals who
6 weren't really GSI employees still remained in
7 the system, though, for dose reconstruction, and
8 have been carried along all this time?

9 MR. ALLEN: Paul, this is Dave Allen.
10 Can I say something on that?

11 MEMBER ZIEMER: You bet.

12 MR. ALLEN: You've got to remember
13 this is PER. It's kind of a different mode than
14 normal here. And these primarily were cases that
15 were sent to us as GSI employment, we did dose
16 reconstructions, sent them back to DOL, and they
17 finalized the case long before all this happened.

18 So it's a completed case in the past.
19 And then we do a PER and we're looking at all
20 completed cases from the past. When DOL changes
21 their mind on that employment and it's not an
22 active case here at NIOSH, they don't necessarily

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1 update us. In fact, they usually don't update
2 us. So we don't really have any way of knowing
3 that they decided to change their mind on a
4 particular case. When we did the PER, we did it
5 for all previously completed cases, sent it off
6 to them and --

7 MEMBER ZIEMER: Got you. And maybe
8 just to follow up on Dr. McKeel's request, but
9 should we, in fact -- we really only have two
10 cases that were valid cases to do when we
11 originally thought there should be five. Is that
12 correct?

13 CHAIR MUNN: That's my understanding.

14 MR. KATZ: Well, I mean, Paul, if you
15 recall, the discussion when this came up
16 initially is, I think the point was that the
17 characteristics really doesn't matter. You're
18 not using personnel dosimetry in the first place.

19 MEMBER ZIEMER: Okay. Just checking
20 the methodology.

21 MR. KATZ: You're checking the
22 methodology, and whether they actually were there

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1 or not doesn't actually impact checking the
2 methodology.

3 MEMBER ZIEMER: Got you, okay.

4 MR. RAMSPOTT: Wanda, this is John
5 Ramspott. Could I make a quick comment?

6 CHAIR MUNN: Very quickly, John.

7 MR. RAMSPOTT: Very brief.

8 CHAIR MUNN: Yes.

9 MR. RAMSPOTT: This exact point that
10 Ted's making, if you think about it, three people
11 that didn't work at GSI had dose reconstructions.
12 They were going to do five. That means three
13 valid GSI workers were essentially shorted or
14 left out of due process under this program, and
15 the Work Group was shorted valid information that
16 they can make judgment on because if the three
17 people who worked at GSI really worked at GSI,
18 let's say three other workers, if their
19 information was used, you may have found
20 something else that was flawed. That opportunity
21 was taken away by doing Granite City workers
22 instead of General Steel. So, essentially

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1 everybody got shorted by this. And I'm not
2 blaming NIOSH because I have worked with DOL and
3 helped them correct some of this recently.

4 MR. KATZ: Okay. John, this is Ted.
5 I'm not sure what you mean by shorted but --

6 MR. RAMSPOTT: GSI workers did not get
7 an opportunity to have their claims reviewed for
8 accuracy.

9 MR. KATZ: John, that's not what this
10 is. This is not an opportunity for GSI workers
11 to have their individual claims reviewed. This
12 is not a QA process of a management system, you
13 know, internal, that would do something like
14 that.

15 The point of this is to test to see
16 if the approaches used, the new methods used, are
17 implemented correctly. And it's not to sort of
18 reverse an individual case that occurred or what
19 have you. That's not why we do these. So it's
20 not a shortcoming for a GSI worker who didn't
21 have his case reviewed, or her, because that's
22 not really the point of this in the first place.

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1 I mean, really, this is not a public
2 comment session. We did have Dan comment, and
3 now you've commented. But we don't have a public
4 comment session for this Subcommittee, and it's
5 really not right in terms of proper process to
6 institute one on the fly like this. So we've let
7 this go for now, but I'll leave it at that.

8 MR. RAMSPOTT: I appreciate the
9 opportunity, and thank you.

10 CHAIR MUNN: Thank you, John. But I
11 do want to underscore before we leave, again,
12 there appears to be a misunderstanding with
13 regard to the purpose of what we're doing. Ted
14 just said so, but I'd like to underscore it again.

15 The purpose of these PER reviews is
16 not to re-review any individual dose
17 reconstruction. That's not the point. We're
18 looking at systematic program processes here.
19 And that's why these cases, even though they are
20 not the group of employees that you have primary
21 concern with, are not being shorted in any way.
22 Nobody is being denied anything here because we

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1 are not looking at individual cases. We are not
2 re-doing individual dose constructions for the
3 purpose of addressing that dose reconstruction.
4 We're looking at process. And that requirement
5 has been satisfied by the process that we've just
6 gone through here now.

7 So, thank you both for your interest
8 and your concern. It's appreciated.

9 That being said, is there any other
10 concern with regard to our closing Finding Number
11 1? If not, then we will do so, with the caveat
12 that we get appropriate statements in that regard
13 from NIOSH. Finding 1 and Finding 2.

14 Is there any other comment with regard
15 to Bob's presentation or to this PER?

16 DR. MAURO: This is John Mauro. I do
17 have one. One of the observations, unless I
18 missed it, had to do with this correlation
19 between the dose distribution and the dose
20 conversion factor distribution, and the product
21 of the two being correlated or uncorrelated. Was
22 that discussed to the point where it's been

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1 resolved? Because I see that as a technical
2 issue, and that applies not only here but across
3 the Board. And the fact that they're
4 stochastically independent, and, therefore,
5 should be randomly sampled and not correlated, I
6 think that might be important.

7 MR. ALLEN: John, this is Dave Allen.
8 I think I can answer that one pretty quick.

9 DR. MAURO: Thanks.

10 MR. ALLEN: We looked at that one.
11 It was done on the photon. It wasn't done on the
12 other doses. And it's in a tool that we put
13 together to try to take all these different
14 things and put them all together for individual
15 cases. And that was just flat-out a mistake, is
16 what it amounts to. It should not have been done
17 that way, and we're correcting the tool. And
18 because of the Work Group findings, et cetera,
19 were in the process of revising the appendix.
20 And so we'll correct the tool and then we'll be
21 PER'ing things again for the next revision, and
22 that will be a piece of that.

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1 DR. MAURO: Thank you.

2 CHAIR MUNN: Thank you, all. Is
3 there any other item that we need to address
4 before we go quickly to the subtask reports on
5 the four remaining PERs? If not, then let's do
6 that. Kathy, are you up?

7 MS. K. BEHLING: Yes. I'm going to
8 ask, is Ron Buchanan still on the line?

9 DR. BUCHANAN: Yes, I'm still here.

10 **PER 0055**

11 MS. K. BEHLING: Do you want to do PER
12 55?

13 DR. BUCHANAN: Yes. If you can bring
14 up the paper on it, I'll start in that.

15 MS. K. BEHLING: Should I try again?

16 DR. BUCHANAN: Or Rose can, whoever
17 has got control there. I don't have control.

18 MR. KATZ: Rose, can you do that?

19 MS. GOGLIOTTI: Yes, I'll pull it up
20 right here.

21 MR. KATZ: Thank you so much.

22 DR. ANIGSTEIN: Hello?

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1 CHAIR MUNN: Hello?

2 DR. ANIGSTEIN: Hello?

3 MR. KATZ: Bob, that's you. That's
4 Bob speaking.

5 DR. ANIGSTEIN: Oh, my phone, my phone
6 just rang.

7 MR. KATZ: No, I understand.

8 DR. ANIGSTEIN: Okay. I'm going to
9 sign off, unless there's on GSI.

10 MR. KATZ: Yes, that's fine. Thanks.
11 Thanks, Bob.

12 DR. ANIGSTEIN: Thank you.

13 DR. BUCHANAN: Okay. While she's
14 pulling that up, I can just give you a little bit
15 of background. PER-55 was for TBD-6000 changes,
16 and there were some changes in both the internal
17 and external doses there. And so they were
18 reworked, and we selected two cases.
19 Unfortunately, there wasn't a whole lot of cases
20 that fit the requirements that we put forth.
21 NIOSH came back with two cases. The last one was
22 fairly simple, and the first one was more

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1 complex, in that this one was, the first case was
2 reworked, and that was less than 50 percent in
3 the old DR back in about '07. And then when it
4 was reworked under PER-55, the PoC was greater
5 than 50 percent.

6 However, there was some confusing
7 things that occurred on this. And I remember
8 what they are, so while she's pulling it up, I'll
9 say that. There wasn't any entry into the system
10 after about 2008, 2009. This case was reworked
11 under PER-55, and the PoC changed. And so we,
12 you know, couldn't find a new DR on essentially
13 what has happened on this.

14 And so we looked at the information
15 that was given to us by NIOSH with the case. And
16 if you'd go down to that first case there, Rose,
17 it will show that this worker, that the case we
18 did work on worked at, I think, Huntington
19 Aluminum, or something like that, an AWE
20 facility, in the late '50s, early '60s. Okay.
21 Keep on going down there. Okay, go on down some
22 more.

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1 MS. GOGLIOTTI: Sorry. There's a
2 little bit of a delay here.

3 DR. BUCHANAN: Okay. So the worker
4 worked there at the Hunter Douglas in California.
5 Okay, stop right there. And in the '50s and
6 '60s, the initial DR was in 2007, and it was less
7 than 50 percent. And then due to the revisions
8 in TBD-6000, PER-55 reworked it. And we see
9 Table 2-1 there is just exactly what we want to
10 look at this time, and we can see that the
11 original dose was around in the high 30s total
12 rems, and the PoC was in the high 20s.

13 We see that it was reworked. And in
14 the file, like I said, there wasn't a final DR in
15 the files, and so there was some papers with it,
16 some in the file that we were forwarded. And we
17 see it was reworked under PER-55 using clerical
18 values, or it could've been environmental values.
19 And, again, just like we talked previously, it
20 could have been either way, either as the
21 clerical, like in management office or something,
22 or just an environmental dose. So they worked

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1 it both ways, which was good.

2 However, you see in that table,
3 because some of the values went up, some of the
4 values went down in the tables, we see that the
5 external dose decreased. However, that's not
6 really true. The original dose was misprinted.
7 It should have been in rems, and that's actually
8 millirems. And so that's divided by a factor of
9 a thousand. So the dose went up a little bit in
10 the clerical value.

11 Environmental value was very small,
12 less than one millirem. And we see that the
13 external dose went down a little bit in both
14 cases, and the internal dose went down a little
15 bit in both cases.

16 MR. KATZ: I'm sorry to interrupt, but
17 someone is, I think, typing close to their mic or
18 doing something making this knocking sound that's
19 making it hard to follow Ron. So I guess
20 everyone else, if you would mute your mics, maybe
21 that will take care of the problem. It's stopped
22 now, which makes me think it's true.

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1 So mute your mics, please, everyone,
2 but for Ron. And it's a star 6 to mute your mic,
3 if you don't have a mute button. Thanks.

4 DR. BUCHANAN: Okay. So we're at the
5 point that when we compare the last two lines in
6 Table 2-1, we see that the high 30 rems produced
7 a PoC in the high 20s, but then on the rework for
8 clerical we see that a lesser dose, low 30s,
9 produced a PoC over 50 percent. And then if you
10 look at the environmental, which you'd suspect to
11 be low 30s, we see that the PoC is almost 60
12 percent.

13 So this did not add up, and so we
14 looked at this case. First of all, it wasn't re-
15 done right, and, secondly, what we see here. And
16 we can go down to the next page, I think, Rose.
17 And, yeah, keep going there.

18 And so we used the clerical values in
19 TBD-6000. We duplicated NIOSH's effort, and we
20 came up with similar doses. And so we can keep
21 on going down there, and we can go down to the
22 next page. And then we also used an

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1 environmental values. And you can keep on going
2 there. Okay, so let's stop there at 2.2.4.

3 So we investigated why the PoC
4 increased as the dose decreased. And so what we
5 found out was, number one, it looks like that
6 perhaps, we can't verify this, but it looks like
7 maybe the clerical and environmental PoCs were
8 switched on the file that we received, because it
9 didn't make any sense that the PoC had increased
10 with decreased dose.

11 And so I think that might have been
12 what happened there, and NIOSH can look into this
13 in a minute. And then explained why the PoC
14 increased so much when the dose decreased when
15 it's reworked under PER-55. And what we found
16 out was that the distribution for the internal
17 dose was changed from a constant to a lognormal
18 distribution.

19 And so, before, when you had a higher
20 dose you put in as a constant, the PoC came out
21 in the low 50 percent. When you put a lower dose
22 with a log-normal distribution, it comes out

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1 greater than 50 percent. So I went back and
2 reworked it even using the old doses with a log-
3 normal distribution, and it came out over 50
4 percent.

5 So, that's the difference. So this
6 person's decision was changed from less than 50
7 percent to more than 50 percent mainly on the
8 distribution rather than the doses that were
9 assigned. However, we found that, you know, it
10 was done correctly and that they followed the
11 PER-55 okay and we had no issues with that. It's
12 just that the paperwork, paper trail, and why
13 there wasn't a DR we could refer to, was the issue
14 on this.

15 So you'll want to go down a page.

16 MR. KATZ: And while you're doing
17 that, Ron, can I ask, did you check with NIOSH
18 and ask why they did not send you the final DR if
19 you never received it?

20 DR. BUCHANAN: Well, it wasn't even
21 in the NOCTS files.

22 MR. KATZ: No, I understand. But, I

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1 mean, did you call someone at NIOSH to find out
2 why this was missing?

3 DR. BUCHANAN: No, I didn't.

4 MR. KATZ: Oh, okay. I mean, in the
5 future, that would be the thing to do.

6 DR. BUCHANAN: Okay.

7 MR. KATZ: Thanks.

8 DR. BUCHANAN: Okay. So I'll go
9 ahead and do the second case and then a summary,
10 and then if NIOSH wants to respond they can.

11 The second case was a worker that
12 worked at B&T Metals in the '40s and '50s. And
13 in this case, there was two cancers, and these
14 were reworked. And we can go down a page to
15 Table 3-1 there. Back up a little bit. Okay.
16 Table 3-1 there, we see that reworking caused the
17 external dose to go down a little bit. And the
18 medical dose wasn't applicable at this site. And
19 internal dose stayed the same.

20 So this gave us a total dose of 0.028
21 and 0.024. In the reworked case it went from 0.2
22 percent to less than 0.2 percent. So while they

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1 did it correctly, it wasn't too informative to
2 test the application of PER-55. However, there
3 wasn't many cases that was available to meet
4 these criteria that we need to test, and so we
5 ended up with two cases, one that we couldn't
6 find the DR on and one that worked out okay but
7 didn't really test the PER-55 very well.

8 So we want to go down to the summary
9 there. Okay. So we see, since that's what I
10 said, that we have one case that changed the PoC
11 above 50 percent, mainly because of the
12 distribution, and the other one there wasn't much
13 change in it. And so we agree with the way they
14 reworked it. We just couldn't find the paperwork
15 on the first case.

16 So that concludes my presentation.
17 And I don't know if NIOSH wants to respond to any
18 of that or not.

19 CHAIR MUNN: I certainly hope so.
20 There's a great deal there.

21 DR. BUCHANAN: Yeah, we don't know
22 which one, whether the clerical or the

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1 environmental, were used in the final dose
2 reconstruction on the first case. Either way,
3 the results come out the same, but we don't know
4 which one was used.

5 MS. K. BEHLING: This is Kathy
6 Behling. One of the things -- David Allen, if
7 you're still on the line, please just interrupt
8 me. But one of the things that NIOSH, they don't
9 always go back and do a formal dose
10 reconstruction rework. They will go in and do
11 back of the -- not even back of the envelope.
12 They go in, they look at what the critical aspects
13 were, recalculate the PoC. And if there's no
14 need to rework it, although in this case it,
15 obviously, you know, was compensated, so they
16 would have to rework it.

17 But I guess the other question that I
18 do have is, why was the initial DR done with a
19 constant, as opposed to a log-normal? And are
20 there other cases out there that might be
21 impacted by that distribution?

22 CHAIR MUNN: Especially with a

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1 difference of that magnitude.

2 MS. K. BEHLING: Exactly.

3 CHAIR MUNN: The difference of the
4 calculations is what was startling to me, not
5 that there was a change. But that there was a
6 change of that magnitude is staggering.

7 DR. MAURO: This is John. I'd like
8 to add to that, also. You know, as I recall, the
9 main reason why we went through this process is
10 OTIB-0070 dealing with the residual period was
11 the major change that triggered the PER. There
12 may have been others, but that ended up being the
13 driver. And in the process of doing this, we
14 tripped over this constant versus lognormal
15 issue.

16 So I just want to point out that it
17 was almost just happenstance that NIOSH and SC&A
18 saw this change, which, Wanda, your reaction is
19 the same as mine. My goodness, we went from 27
20 percent to over 50 percent just because we went
21 from a constant to a lognormal. And I think
22 that's important, even though it has nothing to

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1 do with the PER.

2 CHAIR MUNN: Well, no, but it's
3 astonishing, nevertheless.

4 DR. MAURO: Yes.

5 CHAIR MUNN: I don't recall having
6 seen such an extreme difference.

7 DR. MAURO: Me too.

8 CHAIR MUNN: So I'm wondering what
9 happened, essentially. It had to be more
10 involved than just, it seems to me -- but I don't
11 know what that is. I haven't heard anything that
12 would be.

13 MR. KATZ: Is Dave Allen on the line?

14 CHAIR MUNN: It doesn't sound like it.

15 MR. HINNEFELD: Hey, Jim, are you
16 there?

17 DR. NETON: Yeah, I'm here. I can't
18 explain why it was used as a constant in the first
19 pass. If this was a TBD-6000 case, the reason
20 it went over 50 is because the GSD on all those
21 TBD-6000 numbers is five. So that would clearly
22 explain the difference, but I don't know why it

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1 was done as a constant on the first pass, whether
2 it was just a flat-out mistake or what. I can't
3 answer. We'd have to research it. But this was
4 a TBD-6000 case, is it not?

5 CHAIR MUNN: Yes, it was.

6 DR. NETON: Yes, yes. So, clearly,
7 the GSD of five applies to almost all the values
8 in those tables. So I can't explain that, other
9 than an error. But we need to research that and
10 find out more.

11 CHAIR MUNN: Yeah, we'll look forward
12 to a response.

13 Anyone else have any questions or
14 comments that we've not already addressed? I
15 hear a voice in the background. I'm not getting
16 -- that must be background --

17 MR. KATZ: It's not addressed to us,
18 Wanda. Someone has their phone off mute.

19 CHAIR MUNN: Alright, very good.
20 Then we'll expect a response from NIOSH.

21 At this juncture, I'll have to
22 inquire, is there anyone who has to leave us,

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1 other than Dave? It sounds like we already lost
2 Dave.

3 MEMBER BEACH: Wanda, it's Josie.
4 I'm going to leave soon. They're closing down
5 Hanford and where I'm working. I don't want to
6 get locked in.

7 CHAIR MUNN: Well, gosh, there's just
8 a little snow out there, Josie.

9 MEMBER BEACH: They're shutting the
10 whole site down.

11 CHAIR MUNN: Yeah, I know. We've got
12 schools and everything else closed here. Do we
13 have a few minutes to devote to administrative
14 detail before we go?

15 MEMBER BEACH: Yes.

16 CHAIR MUNN: And let us suggest that
17 the other three Subtask 4 reports, which we have
18 had an opportunity to peruse briefly on the O:
19 drive but haven't yet heard, will be carried over
20 for our next meeting.

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1 **Administrative Detail - Routine Note of Abeyance**
2 **Items Ready for Closing**

3 CHAIR MUNN: Quickly, administrative
4 detail. Lori, do you have any abeyance items
5 that are now ready for closing for us that we
6 should be looking at today?

7 MS. MARION-MOSS: Briefly, I wanted
8 to bring the Committee's attention to OTIB-PR-3.
9 SC&A had an opportunity to look at it. This is
10 a finding that they updated the BRS and
11 recommended closure of this pretty old finding.

12 CHAIR MUNN: Do we have anything new
13 on it than just look at it now and agree to close
14 it?

15 MS. MARION-MOSS: Yes.

16 CHAIR MUNN: Has SC&A -- this is just
17 NIOSH's response to SC&A findings that it's ready
18 to close.

19 MS. MARION-MOSS: SC&A hasn't made an
20 entry into the BRS recently as they looked at
21 that older finding.

22 MR. KATZ: Okay. But that sounds

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1 like that's one we need to take up at the next
2 meeting.

3 CHAIR MUNN: It does, yeah. Are
4 there others like it, Lori?

5 MS. MARION-MOSS: That's the only one
6 I have for now.

7 CHAIR MUNN: Okay. If you would be
8 good enough to send that to the Subcommittee in
9 an email to give us a note telling us what that
10 is, I will put it on the agenda for next time.

11 MS. MARION-MOSS: I sure will.

12 CHAIR MUNN: Thank you much.

13 **Administrative Detail - Status of Case Selection**
14 **and Recommendations**

15 CHAIR MUNN: SC&A, the status of case
16 selections and recommendations, anything that we
17 need to know that you haven't already told us one
18 way or another?

19 MS. K. BEHLING: This is Kathy. I
20 did send you a memo that lists newly-issued PERs
21 and technical guidance documents, along with our
22 recommendations. There were three new PERs, and

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1 there was an OTIB and a report that have been
2 issued. And I don't know if you have the time
3 to go through those or if you just want to review
4 those separately and make a decision as to
5 whether you agree with our recommendation.

6 CHAIR MUNN: Well, let me ask our
7 colleagues here. Paul and Josie, have you had
8 an opportunity to take a look at those items that
9 Kathy has sent to us?

10 MEMBER BEACH: Yes, Wanda, I have.

11 CHAIR MUNN: I was ready to accept all
12 of their recommendations.

13 MEMBER BEACH: So was I, actually.

14 CHAIR MUNN: Paul?

15 MEMBER ZIEMER: Well, I didn't go
16 through that in detail. I just skimmed through
17 them. It looked reasonable, but I thought maybe
18 we were going to discuss them. Are there any in
19 there that are low priority -- I'm sort of
20 wondering about the tasking level. And, Ted, you
21 can help us, too. Are we in a position to where
22 we can task --

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1 MR. KATZ: Yeah, we're not in a
2 position to task. We're in a position to
3 recommend to the Board. Normally, the way we do
4 this is we have NIOSH respond to the
5 recommendations, because sometimes that's very
6 clarifying as to whether something should be
7 tasked or not at this point, and we haven't done
8 that either.

9 CHAIR MUNN: It is, and normally we
10 do have an opportunity to go through them item-
11 by-item so that we can discuss any clear
12 additional items that we're not aware of that
13 NIOSH might have additional information on. But
14 we haven't been able to do that.

15 My question is, how shall we proceed?
16 What would you prefer to do? I would really
17 prefer to have a presentation on each of them.

18 MR. KATZ: We could do that at the
19 next meeting.

20 CHAIR MUNN: We've run out of time
21 here. But if that's alright with all concerned,
22 we'll carry those forward and --

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1 MR. HINNEFELD: This is Stu
2 Hinnefeld. Do you want our response or our
3 reaction to the recommendations before then?

4 CHAIR MUNN: Well, if you have one
5 ready right now, sure, we can --

6 MR. HINNEFELD: Well, I don't have one
7 ready now but I'm --

8 MR. KATZ: Yeah, Stu, just at the
9 meeting.

10 MR. HINNEFELD: You don't want it in
11 advance?

12 MR. KATZ: Yeah, you don't need to
13 send a paper response, but just be ready to
14 address those at the meeting.

15 MR. HINNEFELD: Okay. And, Kathy,
16 what date did you send those?

17 MS. K. BEHLING: The date is the 28th
18 of December.

19 MR. HINNEFELD: Okay.

20 MS. K. BEHLING: I can resend, if
21 you'd like.

22 MR. HINNEFELD: Actually, it would be

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1 helpful probably if you'd resend them to me.

2 CHAIR MUNN: Okay, very good. Then
3 we'll all be on notice that this will be at next
4 time. Is there anything else for the good of the
5 order?

6 MEMBER BEACH: Do you want to try to
7 schedule the next meeting?

8 CHAIR MUNN: We need to have an
9 opportunity to evaluate just a little better what
10 we have, what we have on our plate, and what we
11 don't.

12 MR. KATZ: And part of that is how
13 quickly NIOSH can be ready with responses for the
14 things we're waiting for.

15 CHAIR MUNN: Right. So we're going
16 to do a little offline communication with respect
17 to what we are looking for. And then, Ted, can
18 I rely on you to let us know after you've seen it
19 and have a little better listing of what we know
20 we're going to have to see next time?

21 MR. KATZ: Right. Well, we have the
22 items we didn't get to today and the ones we just

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1 discussed. So if NIOSH will send us a note with
2 their sense of when they'd be ready to respond to
3 the findings that were outstanding today that
4 they've really just received recently on these
5 PERs, then we'll go from there.

6 CHAIR MUNN: I think that's great.
7 Then Ted can send us a choice of dates, and we'll
8 move forward in that direction.

9 **Adjourn**

10 CHAIR MUNN: Anything else? If not,
11 then try to stay warm, if you can, no matter where
12 you are. And we are adjourned.

13 (Whereupon, the above-entitled matter
14 went off the record at 4:06 p.m.)

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