

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

+ + + + +

ADVISORY BOARD ON RADIATION AND
 WORKER HEALTH

+ + + + +

SUBCOMMITTEE ON DOSE RECONSTRUCTION REVIEWS

+ + + + +

MONDAY
 NOVEMBER 8, 2010

+ + + + +

The Subcommittee convened in the Zurich Room of the Cincinnati Airport Marriott, 2395 Progress Drive, Hebron, Kentucky, at 9:00 a.m., Mark Griffon, Chairman, presiding.

PRESENT:

MARK GRIFFON, Chairman
 BRADLEY P. CLAWSON, Member
 MICHAEL H. GIBSON, Member*
 WANDA I. MUNN, Member
 JOHN W. POSTON, SR., Member
 ROBERT W. PRESLEY, Member
 DAVID B. RICHARDSON, Member*

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ALSO PRESENT:

TED KATZ, Designated Federal Official

NANCY ADAMS, NIOSH Contractor*

ISAF AL-NABULSI, DOE*

ROBERT ALVAREZ, SC&A*

KATHY BEHLING, SC&A*

DOUGLAS FARVER, SC&A

STU HINNEFELD, DCAS

EMILY HOWELL, HHS*

JENNY LIN, HHS*

JOHN MAURO, SC&A

SCOTT SIEBERT, DCAS*

BRANT ULSH, DCAS

*Participating via telephone

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

2 9:08 a.m.

3 MR. KATZ: This is the Advisory
4 Board on Radiation and Worker Health, Dose
5 Reconstruction Subcommittee. I am Ted Katz. I
6 am the Designated Federal Official of the
7 Advisory Board. We are going to begin with
8 roll call, with Board Members in the room
9 first.

10 CHAIRMAN GRIFFON: Mark Griffon,
11 Chair of the Subcommittee.

12 MEMBER CLAWSON: Brad Clawson, Work
13 Group Member.

14 MEMBER PRESLEY: Robert Presley,
15 Work Group Member, non-conflicted.

16 MEMBER MUNN: Wanda Munn, Board
17 Member.

18 MEMBER POSTON: John Poston, Board
19 Member.

20 MR. KATZ: And, on the line, Board
21 Members?

22 MEMBER RICHARDSON: David

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1 Richardson, Board Member.

2 MEMBER GIBSON: Mike Gibson, Board
3 Member.

4 MR. KATZ: We have a full slate
5 here. NIOSH-ORAU Team in the room?

6 MR. HINNEFELD: Stu Hinnefeld from
7 NIOSH.

8 DR. ULSH: Brant Ulsh from NIOSH.

9 MR. KATZ: NIOSH-ORAU Team on the
10 line?

11 MR. SIEBERT: Scott Siebert from the
12 ORAU Team.

13 MR. KATZ: Welcome, Scott. SC&A in
14 the room?

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

16 MR. FARVER: Doug Farver, SC&A.

17 MR. KATZ: SC&A on the line?

18 MR. ALVAREZ: Bob Alvarez, SC&A.

19 MS. BEHLING: Kathy Behling, SC&A.

20 MR. KATZ: Welcome to both of you.
21 Federal officials for HHS or contractors to
22 HHS or other federal agencies on the line?

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1 MS. HOWELL: Emily Howell, HHS.

2 MS. LIN: Jenny Lin, HHS.

3 DR. AL-NABULSI: Isaf Al-Nabulsi,
4 DOE.

5 MS. ADAMS: Nancy Adams, NIOSH
6 contractor.

7 MR. KATZ: Welcome to all of you.
8 And there are no members of the public in the
9 room. Are there any members of the public on
10 the line?

11 Okay then. It is -- Mark, your
12 agenda. We did not, we did not, except in the
13 Federal Register.

14 CHAIRMAN GRIFFON: Then we'll do the
15 basics. Okay I think we are ready to start.
16 This is the Subcommittee meeting and if you --
17 I don't know who is on the phone today but
18 those of us who have been following it, we are
19 going to continue on with our work on the
20 matrices. We are on the seventh set of cases.
21 I think we still have a few hanging out on the
22 seventh set if I recall. I'm looking to Doug

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1 and Brant.

2 DR. ULSH: Yes, I think there are
3 some open items.

4 CHAIRMAN GRIFFON: Right, and then
5 on the eighth set, the same thing so I think
6 we are going to continue on the two matrices.
7 The only other agenda item I really have is
8 the follow up on the first hundred cases
9 review report and the status on that with
10 regard to the quality assurance cases, and
11 then one other item that -- the response to
12 Paul Ziemer's questions, I guess, that came
13 back from the --

14 MR. KATZ: There's another item,
15 too.

16 CHAIRMAN GRIFFON: There's another
17 item, too. I'm looking at Ted, and he's like
18 no, that's not the one yet.

19 MR. KATZ: No, because we are
20 supposed to do a preliminary selection of the
21 fourteenth set of --

22 CHAIRMAN GRIFFON: Okay, preliminary

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1 selection, okay. All right. All right. So we
2 will do that as well. So I think to start off,
3 if we can go to the seventh set and then let
4 me just ask, for process sake, do we have a
5 preliminary list from NIOSH of the fourteenth?
6 You gave us some --

7 MR. HINNEFELD: We have -- yes, we
8 have the preliminary set. We don't have the
9 additional information that we get from ORAU
10 sometimes because we were late getting that to
11 them.

12 CHAIRMAN GRIFFON: Okay.

13 MR. HINNEFELD: And so that's not
14 available yet so we don't have the additional
15 information but we have some 51 or 52 that we
16 chose essentially the highest PoC numbers, but
17 we dropped a few if they were -- you know we
18 didn't get a whole bunch from the same place
19 as I think --

20 CHAIRMAN GRIFFON: Or not the
21 highest PoC numbers but --

22 MR. HINNEFELD: Well, the 50s.

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1 CHAIRMAN GRIFFON: Right, right,
2 right.

3 MR. HINNEFELD: Fifty, not the
4 highest, the ones closest, you know, to 50 but
5 below.

6 CHAIRMAN GRIFFON: Got you. Right.

7 MR. HINNEFELD: And what were the
8 other --

9 DR. ULSH: Well in general -- I made
10 the initial selection. In general I stuck with
11 the ones that were close to 50, but not all of
12 them are close to 50. Some of them are down in
13 the 30s. I tried -- some things that I looked
14 at, I tried not to get too many from one site,
15 I tried not to get too many over 50 maybe just
16 a handful because I know that is of less
17 interest, and I also gave more favor to sites
18 that did not already have an SEC in place at
19 the time.

20 CHAIRMAN GRIFFON: All right. Okay.
21 And do we have a printed -- did you send that
22 to us?

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1 DR. ULSH: I sent it to you.

2 MR. HINNEFELD: I have a hard copy.
3 I can make copies of it.

4 CHAIRMAN GRIFFON: That's what I was
5 thinking. Maybe at the break or at lunch you
6 know, we can take this up right after lunch if
7 that makes sense.

8 MR. HINNEFELD: Yes, I have a hard
9 copy.

10 CHAIRMAN GRIFFON: Make copies -

11 MR. HINNEFELD: I have hard copies,
12 and -

13 CHAIRMAN GRIFFON: Yes. Okay. We can
14 do the selection. All right. Maybe to start we
15 can start on the seventh set and find the
16 final ones. I am going to pull up the matrix
17 while maybe Brant and Doug, maybe you guys can
18 tell me what the outstanding ones were.

19 MR. FARVER: I don't believe SC&A
20 had any actions in the seventh set. None that
21 I found.

22 DR. ULSH: That'll make it fast

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1 because we haven't done -- we don't have
2 anything new to report on the seventh or
3 eighth set. However there are still the
4 initial responses to the ninth set that have
5 been delivered to the committee about a year
6 ago that we haven't picked up yet.

7 CHAIRMAN GRIFFON: All right.

8 DR. ULSH: So I --

9 CHAIRMAN GRIFFON: Well, I guess
10 we'll have to work on the ninth set then. It
11 sort of drives the agenda right? All right.

12 DR. MAURO: Didn't we make it one
13 time through the eighth set though?

14 CHAIRMAN GRIFFON: Yes, we did. We
15 did.

16 DR. MAURO: And of course there were
17 a lot --

18 CHAIRMAN GRIFFON: But there were a
19 lot of follow up actions.

20 DR. MAURO: Oh, yes.

21 CHAIRMAN GRIFFON: That's what I
22 wanted to go back to, yes.

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1 MEMBER MUNN: And we had quite a
2 number still from the seventh set that -- in
3 March were still NIOSH actions that were
4 hanging out --

5 CHAIRMAN GRIFFON: Well actually we
6 had a meeting in July, and I think we were
7 down to two or three, if I recall -

8 MR. KATZ: There's practically
9 nothing left in the seventh set.

10 CHAIRMAN GRIFFON: Yes. There was
11 only a couple as I recall.

12 MEMBER MUNN: It's still out there.

13 CHAIRMAN GRIFFON: I mean, do we
14 need to refresh memory on that, or are you
15 pretty clear on the actions? Should we go
16 through the seventh and eighth just to make
17 sure we are all on the same page?

18 MR. HINNEFELD: I don't have my
19 notes from the July meeting with me, and that
20 would be where I captured what was left. I
21 don't know if anybody has their notes from the
22 July meeting.

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1 MR. FARVER: Well, I'm just going by
2 what -

3 CHAIRMAN GRIFFON: I mean I did send
4 the updated matrices.

5 MR. HINNEFELD: Okay. After the July
6 meeting?

7 CHAIRMAN GRIFFON: Yes.

8 MR. FARVER: And there's not that
9 many.

10 CHAIRMAN GRIFFON: It should be
11 labeled like July 23 or something like that,
12 for some reason that comes to mind.

13 MEMBER MUNN: Yes correct.

14 MR. FARVER: Half dozen findings
15 maybe.

16 MEMBER MUNN: SC&A agrees on this
17 one and that one. I'm not sure I caught --

18 CHAIRMAN GRIFFON: I mean, if we
19 need clarification this would be a good time
20 to do to it.

21 MR. HINNEFELD: Yes.

22 CHAIRMAN GRIFFON: But I don't want

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1 to -- you know, I don't want to waste the
2 time, but we are all here, we have got the
3 time, so -- let me just pull up the seventh
4 set, now that I've finally got my computer -

5 MEMBER MUNN: Item 2.2 still
6 outstanding to NIOSH.

7 CHAIRMAN GRIFFON: Well, it looks
8 like even the first one, 121.1, remains NIOSH
9 action. 121.2 -- 121.3 -- I think part of
10 these are that they are all related, you know.

11 It seems to be mostly 121 and 122
12 that I find, but --

13 MEMBER MUNN: Then there are -- down
14 135 --

15 MR. HINNEFELD: Yes, there are still
16 some other ones. I mean, do we do --

17 MR. HINNEFELD: Well, I'm still
18 looking for the --

19 CHAIRMAN GRIFFON: The matrix?

20 MR. HINNEFELD: The updated matrix.

21 CHAIRMAN GRIFFON: Okay. I was going
22 to say all the highlighted ones, I thought

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1 that suffices as far as an action list it
2 should be able to prompt people.

3 MR. HINNEFELD: Our list -- our
4 notes pick up at 125.9 so --

5 MEMBER MUNN: You had highlighted in
6 green that time.

7 MR. FARVER: So you sent out the
8 matrices a while ago.

9 CHAIRMAN GRIFFON: Yes.

10 MR. HINNEFELD: In July.

11 DR. ULSH: I have 7/19. Is that what
12 -

13 MR. FARVER: No, you sent it in
14 either September or October.

15 CHAIRMAN GRIFFON: Yes.

16 MEMBER MUNN: 7/23 -

17 CHAIRMAN GRIFFON: Well, the meeting
18 was 7/23, yes. I don't remember when I emailed
19 it, but it wasn't right away, but it was, you
20 know, a month or --

21 MR. FARVER: September or October it
22 was --

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1 CHAIRMAN GRIFFON: Yes, maybe two
2 months later. It might need some cleaning up
3 though because I see one here that has yellow
4 highlighting all throughout and then the 7/23
5 response says SC&A agrees no further action.

6 MEMBER MUNN: Further down, you have
7 a couple more.

8 MR. KATZ: An SC&A one -

9 CHAIRMAN GRIFFON: Yes. Was there an
10 SC&A one?

11 MR. KATZ: Yes, it was in green.

12 MR. FARVER: Which one was that?

13 CHAIRMAN GRIFFON: No, it remains a
14 NIOSH action. I don't know why it's in green.

15 There is one -- yes there are,
16 there is at least one. I've found it. It says
17 SC&A will review references regarding the use
18 of in vivo counter. NIOSH will examine --

19 MR. FARVER: Which one is that,
20 Mark? What number?

21 CHAIRMAN GRIFFON: This is 137.7.
22 Well, here's what I suggest. Why don't I go

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1 through these because instead of just poking
2 around, why don't we just walk through them
3 and clarify and make sure everybody is in
4 agreement, and I can update the highlighting
5 and send out another revision of this so it's
6 cleaner.

7 So starting with the beginning,
8 121.1. Let's see. I have, remains a NIOSH
9 action item, but that was on 3/22. I don't
10 have an update on that from 7/23, which is a
11 little odd. The same thing on the next couple
12 of items.

13 MEMBER MUNN: I have the same thing
14 but we just -- I think the first few when we
15 were agreeing that nothing had happened --

16 CHAIRMAN GRIFFON: Right, that's
17 probably why. That's probably why. You didn't
18 do anything on those cases, so I think they
19 are still outstanding. We just didn't update
20 the matrix in that July meeting.

21 MEMBER MUNN: 122 had --

22 MR. HINNEFELD: In my notes --

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1 CHAIRMAN GRIFFON: Do you have the
2 matrix, Stu?

3 MR. HINNEFELD: I do have. I do have
4 the one you sent.

5 CHAIRMAN GRIFFON: Okay. So you can
6 follow along. I mean 3/22, if -- I'm assuming
7 this still is a NIOSH action item because it
8 wasn't closed. There's nothing saying that we
9 closed --

10 MR. HINNEFELD: Yes, I guess we
11 didn't bring anything on that. 121 is -- does
12 anybody have handy what site that finding was?

13 MR. SIEBERT: It was Aliquippa
14 Forge.

15 MR. HINNEFELD: Aliquippa Forge?
16 Okay. That might be ours.

17 CHAIRMAN GRIFFON: So 121.1, .2, and
18 .3 --

19 MR. HINNEFELD: Ours rather than
20 ORAU's. Sorry, I knew as soon as I said it I
21 had mumbled it, which I have been told I do.

22 MEMBER MUNN: Pretty much the same

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1 is true 122.

2 CHAIRMAN GRIFFON: Yes, 122 point --
3 so 121.1, .2 and, .3 remain NIOSH action
4 items. 122.1 --

5 MR. SIEBERT: And 122 is Simonds Saw
6 & Steel.

7 MR. HINNEFELD: That was Scott
8 Siebert.

9 MR. SIEBERT: Sorry about that.

10 CHAIRMAN GRIFFON: And 122.3, 122.1
11 and .3 remain NIOSH action items.

12 MEMBER MUNN: You got all kinds of-

13 CHAIRMAN GRIFFON: Well yes, I think
14 it's the whole case really, probably, right.
15 Yes. 122.7 also. Yes. Yes. I think the whole
16 case on that, the Simonds Saw & Steel, yes.
17 Okay.

18 Then I think we go to the one you
19 were looking at, Stu. 125.9, that's the one
20 you were talking about Stu, right, earlier?
21 Yes. And that says remains a NIOSH action
22 item.

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1 And now we go down to 127.11. Oh
2 that is also -- that's closed actually, so I'm
3 going to take the highlighting off that. I
4 have SC&A agreed no further action. Do you
5 agree with that, Doug?

6 MR. FARVER: Yes.

7 CHAIRMAN GRIFFON: I'll take the
8 highlighting off of that, change that weird
9 font that --

10 MEMBER MUNN: I thought that was --
11 it was nice, calling to attention you can stop
12 worrying about it.

13 CHAIRMAN GRIFFON: Oh, okay.

14 MEMBER MUNN: A good color for that.

15 CHAIRMAN GRIFFON: Next one I have
16 is 131.4 and that says SC&A agrees no further
17 action so that will be -- remove the
18 highlighting on that, too.

19 MEMBER MUNN: I think you ought to
20 use that nice puce color.

21 MR. KATZ: What was the date of our
22 last meeting?

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1 CHAIRMAN GRIFFON: I thought 7/23.

2 MR. HINNEFELD: 7/23.

3 MR. KATZ: That's what I thought. So
4 do we need to do something different? Why did
5 this all fall through?

6 MR. HINNEFELD: From our standpoint,
7 it was a matter of getting to things to -- you
8 know, in the time that we were gone and from
9 with our contractor, we have been battling
10 with our contractor in terms of priorities for
11 a while, and, candidly, things in front of the
12 Advisory Board that don't relate to an SEC
13 petition -- when you have priority -

14 DR. MAURO: Mark, certainly let's go
15 through this, but I have a funny feeling
16 Simonds Saw is very mature now. I mean you
17 have --

18 MR. HINNEFELD: I think well, it's
19 just that I think we can get some responses on
20 there, I don't know --

21 DR. MAURO: Yes, my guess is your
22 responses are all in your, you know, in

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1 concept, because when we did the review of
2 Simonds Saw case subsequent to that you have a
3 Site Profile review that we are active on
4 right now, you have an ER I think that's
5 coming up.

6 MR. HINNEFELD: There's an
7 Evaluation Report going to be presented to the
8 Board.

9 DR. MAURO: Right, so I mean it
10 would be very --

11 CHAIRMAN GRIFFON: It's a matter of
12 marrying the two I think --

13 DR. MAURO: Yes. So I mean we --

14 CHAIRMAN GRIFFON: And then we will
15 have it done, yes. Yes.

16 MR. HINNEFELD: It's just a matter
17 of getting some responses on here that are
18 consistent with the Evaluation Report that was
19 presented.

20 DR. MAURO: You are probably there
21 already.

22 MR. HINNEFELD: Yes.

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1 CHAIRMAN GRIFFON: All right, so the
2 next one I have is 135.1, and that is still an
3 outstanding NIOSH action, 135.1. We are almost
4 through this. It will only take a minute.

5 135.4, next one I have.

6 MR. FARVER: It's on 134, you said?

7 CHAIRMAN GRIFFON: That was 135.4.

8 MEMBER MUNN: For some reason, that
9 ended up highlighted.

10 CHAIRMAN GRIFFON: All right. Well,
11 this was -- the next one I have is 137.6, and
12 we say SC&A agrees and the item is closed, and
13 then there's this other part that says NIOSH
14 agrees to a clarification to TIB-60. So this
15 is sort of a in abeyance kind of thing, isn't
16 it? You know, from talking Procedures
17 terminology. So I don't know, I think it was
18 closed in terms of this case review. That's
19 what we were saying. Stu, I don't know if you
20 remember this one.

21 MR. HINNEFELD: Okay. Let me --

22 MEMBER MUNN: It's being followed in

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1 Procedures -

2 CHAIRMAN GRIFFON: Yes, I just don't
3 want to lose the action, you know. Yes, I
4 think it's something we have mentioned several
5 times, but -- well, I'm going to -- I'll just
6 leave it highlighted in the matrix but we all
7 understand that, you know --

8 MEMBER MUNN: I believe we have it
9 on the Procedures matrix.

10 CHAIRMAN GRIFFON: Okay.

11 MEMBER MUNN: I think so. I'll
12 double check.

13 CHAIRMAN GRIFFON: I'll put a note
14 in there, moved to Procedures.

15 MR. FARVER: That has to do with
16 them not including all the solubility classes
17 in the claimant's file, or any --

18 CHAIRMAN GRIFFON: That was part of
19 it, yes, the show all work concept and that
20 was --

21 MR. FARVER: And I think we're going
22 to add something to the procedure --

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1 CHAIRMAN GRIFFON: This particular
2 one, yes.

3 MR. FARVER: To clarify that it
4 should be added.

5 MR. HINNEFELD: No, no, we need to
6 make sure that we get that action to ORAU - on
7 the action to revise that procedure.

8 CHAIRMAN GRIFFON: Yes, so really,
9 I'm going to delete it up -

10 MR. HINNEFELD: We transferred --
11 that's -

12 CHAIRMAN GRIFFON: Right.

13 MR. HINNEFELD: So we need to make
14 sure that ORAU gets that action.

15 CHAIRMAN GRIFFON: Okay. Do you want
16 me to leave this highlighted in the matrix,
17 Stu?

18 MR. HINNEFELD: Fine by me, I mean -

19 CHAIRMAN GRIFFON: Okay, I'll just
20 leave it highlighted. Yes. It says now that
21 transferred but you guys have to do the follow
22 up.

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1 MR. HINNEFELD: Yes, I mean that's
2 going to fall to us.

3 CHAIRMAN GRIFFON: Right, right,
4 right.

5 MR. HINNEFELD: And we are going to
6 show them the procedures and -- you'll have
7 the same -- we're saying, okay, now what about
8 -- what's this one.

9 CHAIRMAN GRIFFON: Right, right.

10 MEMBER MUNN: Yes. I'll double check
11 it to make sure we had it in abeyance.

12 CHAIRMAN GRIFFON: 137.7 I have an
13 action for SC&A and NIOSH on this. That was
14 one I just mentioned before.

15 MR. FARVER: And then if at some
16 point today either Stu or Brant he can tell me
17 where that reference is located, where it's
18 located on the -- apparently it's located
19 somewhere.

20 MR. HINNEFELD: Okay, a reference to
21 --

22 MR. FARVER: It's the Y-12 mobile in

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1 vivo counter.

2 MR. HINNEFELD: Okay. Scott? You are
3 listening in, right?

4 MR. SIEBERT: I am.

5 MR. HINNEFELD: Are you following
6 along on the findings and you can see where --
7 we are talking about a reference to the mobile
8 counter on this finding?

9 MR. SIEBERT: At 137.7?

10 MR. HINNEFELD: Yes.

11 MR. FARVER: Yes, you gave the
12 reference number I believe at the last meeting
13 but I did not know where that is located.

14 CHAIRMAN GRIFFON: Oh, if you go
15 with the Site Research Database you can search
16 --

17 MR. HINNEFELD: I bet if you go to
18 Paducah, if you've got that reference ID, if
19 you go to Paducah, I bet you'll find it.
20 Paducah.

21 MR. FARVER: Okay.

22 MR. HINNEFELD: Because I bet you'll

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1 find it at Paducah; I bet you'll find it at
2 Fernald.

3 MR. FARVER: What -- where is that
4 located, I mean --

5 MR. HINNEFELD: Okay. I can show you
6 on a break but you go to site research on
7 staff tool.

8 MR. FARVER: If you just show me at
9 a break --

10 MR. HINNEFELD: Yes.

11 MR. FARVER: We will work that out.

12 CHAIRMAN GRIFFON: And then the next
13 one, 137.8. This is transferred to Procedures
14 but I'll leave it as highlighted because --

15 MEMBER MUNN: Correct, and I'll
16 double check it.

17 MR. HINNEFELD: Now, anything we
18 transfer to Procedures you want to make sure
19 we get to the database.

20 CHAIRMAN GRIFFON: Part of TIB-17,
21 it says, yes.

22 MEMBER MUNN: It'll be on our

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1 database. I'll double check it.

2 MR. HINNEFELD: Yes, and we'll have
3 to write it. You are just going to write this
4 finding into whatever procedure is going to
5 change, and it'll be an imported status, and
6 we can talk about it later, but there's a way
7 to put it in there so we don't -- and then we
8 also have to check to make sure this document
9 is in front of the Procedures Work Group,
10 otherwise it -- like if it's closed and it's
11 not being -- by Procedures Work Group then it
12 just disappears.

13 CHAIRMAN GRIFFON: I think it is
14 according to Wanda, right.

15 MEMBER MUNN: I think it is.

16 DR. MAURO: Seventeen, that's the
17 non-penetrating radiation procedure?

18 MEMBER MUNN: I never remember which
19 is which.

20 MR. HINNEFELD: Seventeen, I believe
21 is non-penetrating.

22 DR. MAURO: Okay.

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1 CHAIRMAN GRIFFON: I think you're
2 right because it's technetium. And is there
3 any more? These red ones here. They shouldn't
4 be red.

5 MR. FARVER: Did you say they are
6 not supposed to be red or --

7 CHAIRMAN GRIFFON: I don't think --
8 yes, it was just there is no reason for them
9 to be, except maybe I was highlighting that
10 they are all transferred to Procedures so --

11 MEMBER MUNN: Well I think, I think
12 one of the early things that we did, we put
13 that particular day's process --

14 CHAIRMAN GRIFFON: In red, yes --

15 MEMBER MUNN: The responses we had
16 in red that day.

17 CHAIRMAN GRIFFON: Maybe, yes. That
18 could be why. Yes.

19 MEMBER MUNN: Just to show us that
20 it was a -

21 CHAIRMAN GRIFFON: Right, right.
22 Okay. So that's it. That's all I have. Want to

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1 do the same thing with the eighth set and then
2 we can get on to the new stuff? Okay. Probably
3 worthwhile. And it's labeled the same way,
4 Eighth Matrix, July 23, the end of it.
5 Everybody have that document?

6 Let's see if I did better with my
7 highlighting. Apparently not. Is 149.1 -- it
8 says no effect on this case. NIOSH to review
9 SC&A's analysis, the badge data. No effect on
10 this case since the case was compensable so do
11 we say it was closed? I'm not -

12 MR. HINNEFELD: Well -

13 CHAIRMAN GRIFFON: That might -

14 MR. HINNEFELD: We didn't capture it
15 on our notes.

16 CHAIRMAN GRIFFON: Yes.

17 MR. HINNEFELD: We didn't capture
18 our notes, 149.1 we did not capture it as an
19 action item so I don't know if that means it's
20 closed or not.

21 CHAIRMAN GRIFFON: Doug, do you have
22 that on your notes?

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1 MR. FARVER: I thought it was closed
2 but --

3 MEMBER MUNN: What number are we
4 looking at?

5 MR. FARVER: 149.1.

6 MEMBER MUNN: .1?

7 CHAIRMAN GRIFFON: Yes, I mean we
8 say no affect on the case but I don't know if
9 we really resolved the differences that you
10 were having, analysis of badge data as
11 compared to --

12 MR. FARVER: I don't know that we
13 have.

14 MR. HINNEFELD: This is that
15 statistical one.

16 MR. FARVER: Yes.

17 MR. HINNEFELD: No wonder I keep
18 blocking it out. Okay we should take this one
19 down.

20 CHAIRMAN GRIFFON: I think it is
21 still an open item, yes.

22 MR. HINNEFELD: Yes, because it's

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1 not so clear to me that this issue would
2 affect only this claim, as I recall.

3 CHAIRMAN GRIFFON: Right. In fact it
4 doesn't affect this claim because it's --

5 MR. HINNEFELD: Well this one is
6 compensable so it is not going to change this
7 one, but there are other claims that worked in
8 accordance with this technique that might be
9 affected.

10 DR. MAURO: You have a statistical
11 one that goes to our coworker models --

12 MR. HINNEFELD: Yes. It's the one
13 that Chmelynski wrote --

14 DR. MAURO: Harry's comments on --

15 MR. HINNEFELD: Harry Chmelynski
16 wrote -- yes.

17 DR. MAURO: So this is more -- I
18 mean if it's what I'm thinking it is, this is
19 more procedural than it is for this case --

20 MR. HINNEFELD: Yes.

21 DR. MAURO: Or for this site. I
22 think it's cross-cutting.

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1 MR. HINNEFELD: Yes, I'm not so sure
2 this technique was used other places. It
3 depends on what kind of a data set you get, so
4 I am not sure that the technique was used
5 other places that would be -- if it was used
6 other places --

7 CHAIRMAN GRIFFON: Well it only goes
8 to Procedures if it is proceduralized.

9 MR. HINNEFELD: I believe it was.
10 I'm not -- we'll have to go check but we have
11 got some action on this.

12 CHAIRMAN GRIFFON: Yes. Yes. Okay.

13 MR. HINNEFELD: And it just has to
14 be pulled out and it's probably -- this will
15 be one of those resource-constrained findings,
16 has been and will be because this is going to
17 take a statistician on our side and we don't
18 have very many of those either, so yes.

19 DR. ULSH: I've got it down as a
20 NIOSH action item. The question is, it's not
21 an issue for this claim necessarily but does
22 it affect other claims?

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1 MR. HINNEFELD: Okay, I'll need a
2 little more than that to remember this. It
3 relates to the statistics of coworker method
4 on this claim.

5 CHAIRMAN GRIFFON: And this carries
6 through the first four or so, right?

7 DR. ULSH: First four.

8 MR. HINNEFELD: All the findings on
9 that? I don't recall --

10 CHAIRMAN GRIFFON: I think looking
11 down --

12 MR. FARVER: It takes into account
13 several of them, I'm not sure about --

14 MR. HINNEFELD: Oh well, the second
15 one is a different finding. It has to do with,
16 apparently --

17 DR. ULSH: Is the 149.2 the same
18 thing?

19 MR. HINNEFELD: Well, maybe not,
20 maybe not. We should take a look at it. To me
21 --

22 CHAIRMAN GRIFFON: I'm not -- yes --

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1 you may be right, that's a different issue,
2 isn't it?

3 MR. HINNEFELD: Okay. Yes, this is a
4 matter of -- if you let the finding the
5 default values result in a substantial
6 overestimate to this employee and it has to do
7 with, I think, a one size fits all coworker
8 model --

9 CHAIRMAN GRIFFON: Right. Right.

10 MR. HINNEFELD: As opposed to a
11 tiered coworker model and we've discussed that
12 in other venues and I believe that we are of
13 the opinion that, if you start tiering them,
14 the model, you know, how many tiers are you
15 going to build? I mean, it's going to fall
16 apart eventually because you can always find a
17 subset of categories you've chosen and try to
18 tier it again. And so I think that is where we
19 have stood on this and again it won't affect
20 this claim and it's kind of the standard
21 practice, is to use a coworker model and then
22 select the percentile points depending upon

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1 the job description.

2 CHAIRMAN GRIFFON: You usually go
3 with like three tiers, right? You usually go
4 with 50th, 95th or environmental.

5 MR. HINNEFELD: I'm not sure if
6 we've anything to do on --

7 DR. MAURO: If all it is, is the
8 selection of the 95th percentile when our
9 judgment is -- this might not have been the
10 nurse --

11 MR. HINNEFELD: Yes.

12 DR. MAURO: Is this the nurse?

13 MR. HINNEFELD: Yes.

14 DR. MAURO: Oh, I'll tell you, I
15 know what this is. There was a person that
16 worked at this facility, I forget, one of the
17 AWEs who was a nurse and did not work on the
18 operating floor, apparently, or not very much,
19 and the assignment that she received for a
20 dose was at the upper end, she ended up being
21 exposed and I believe it was a skin cancer -

22 MR. HINNEFELD: I don't recall.

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1 DR. MAURO: But in any event, in
2 this -- I think our only concern was, I don't
3 know if we had so much of a problem with the
4 coworker model, it was more that why would
5 you assign this person such a high dose and
6 compensate. You know that's of course a
7 judgment.

8 MR. HINNEFELD: Right.

9 DR. MAURO: If that's the one I'm
10 thinking --

11 MR. HINNEFELD: If that, I mean, we
12 are kind damned if we do and damned if we
13 don't.

14 DR. MAURO: I know.

15 MR. HINNEFELD: If we gave a nurse a
16 lower one, she would say I was always
17 responding to injuries out there, I would work
18 -- I would go to visit the employees in the
19 workplace as part of my job, you know, I
20 didn't just sit in the dispensary all day.

21 DR. ULSH: So, this is one where the
22 95th -

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1 DR. MAURO: I'm speculating based on
2 the conversation, looking at the case, and I
3 recall a case like that, where you really
4 assigned a high dose. And the only reason I
5 bring something like that up is if it was a
6 person that on every -- on first blush anyway,
7 very little -- that's the reason you created
8 the other categories, just for a person like
9 this --

10 MR. HINNEFELD: Yes.

11 DR. MAURO: And you didn't use it.

12 MR. HINNEFELD: Well, Brant, you
13 should check and see how this one would have
14 worked and kind of what the issues are here. I
15 would think a nurse, even if she spent some
16 time in the facility, would get a 50th percent
17 --

18 DR. MAURO: Yes.

19 MR. HINNEFELD: Maybe she got that.
20 I don't know.

21 CHAIRMAN GRIFFON: It sounds like
22 she got a 90th -- but, well -

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1 DR. MAURO: Any way to tell if this
2 was an AWE from looking at it?

3 MR. FARVER: Oh, it was an AWE.

4 DR. MAURO: It was an AWE. I just
5 don't want to --

6 MR. HINNEFELD: Yes.

7 DR. ULSH: I've got it as an action
8 item for us, check to see whether the 95th
9 should have been assigned or whether --

10 DR. MAURO: And it's not the Harry
11 issue, then.

12 MR. HINNEFELD: No, one is.

13 DR. MAURO: Oh, one was. I'm sorry.

14 MR. HINNEFELD: The first one --
15 number three is sort of the same.

16 CHAIRMAN GRIFFON: Number two is the
17 one we just discussed, right?

18 MR. HINNEFELD: Yes.

19 CHAIRMAN GRIFFON: So that's the
20 action you had, check on the 95th versus 50th,
21 right? These are different. I'm sorry, I was
22 trying to bundle them all in together but

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1 they're slightly different issues.

2 DR. ULSH: It looks like 149.3, is
3 that the same as number one?

4 MR. HINNEFELD: Same as one, has to
5 be our response, refers to number one so I
6 would say it is the same as one.

7 CHAIRMAN GRIFFON: I think it is,
8 yes. Okay. What about 149.4?

9 MR. HINNEFELD: Well, that one looks
10 to me like a global one having to do with
11 localized data sources and it's not going to
12 affect this claim I think maybe keeping it in
13 a global. We had a conversation Friday about
14 getting these global ones, we've got to put
15 some urgency on settling global issues, so to
16 me this looks like that.

17 MR. FARVER: This is the shallow
18 dose?

19 MR. HINNEFELD: Shallow dose from
20 localized sources.

21 CHAIRMAN GRIFFON: Right.

22 DR. MAURO: And it also goes to

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1 OTIB-17, which is where it first came up, five
2 years ago.

3 MR. HINNEFELD: Yes.

4 DR. ULSH: So I've got it remains a
5 NIOSH action item. Do you want me to put
6 something --

7 MR. HINNEFELD: Well I don't know
8 that it is for claim. I think it's a global
9 issue. I think it's a global issue. It --

10 CHAIRMAN GRIFFON: Does it go to
11 Procedures or is it --

12 MR. HINNEFELD: Well --

13 CHAIRMAN GRIFFON: How do you, how
14 do we --

15 MR. HINNEFELD: To me -- I think we
16 had a conversation about this on Procedures
17 and we felt like global issues usually should
18 rightfully go to Procedures because Procedures
19 deals with documents that theoretically affect
20 more than one claim and so we had that
21 discussion once and I think the global issues
22 was going to go there. I almost think it needs

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1 its own little piece of the database. But you
2 know Procedures could be -- it could be
3 managed just like the Procedures, you know,
4 the same people, the same rights and all that
5 stuff.

6 CHAIRMAN GRIFFON: But for the sake
7 of my matrix here, I'm going to say
8 transferred to Procedures Work Group.

9 MR. HINNEFELD: Okay with us, we'll
10 keep track of it.

11 MR. KATZ: So that would be a good
12 idea, to have a section of the database that's
13 global issues that are not necessarily tied to
14 a document.

15 MEMBER MUNN: Are we still talking
16 about 17?

17 CHAIRMAN GRIFFON: I think it refers
18 to TIB-17 still, yes. This is 149.4 finding,
19 yes.

20 MEMBER MUNN: And my apologies, I
21 made a valiant effort to bring up the database
22 to look to see what it says is in Procedures

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1 and unfortunately, I am not communicating with
2 Citrix or vice versa -- properly.

3 MR. HINNEFELD: Put a question mark.

4 CHAIRMAN GRIFFON: How about 149.5?

5 MEMBER CLAWSON: That's part of the
6 95 percentile issue too --

7 CHAIRMAN GRIFFON: Yes, I see
8 response 149.2.

9 MR. HINNEFELD: So the next two are
10 --

11 CHAIRMAN GRIFFON: Right. Yes. Okay.

12 MR. KATZ: While they are mulling
13 through things, Bob, are you on the line
14 still?

15 MR. ALVAREZ: Yes, I am.

16 MR. KATZ: Are you awaiting a
17 particular agenda item?

18 MR. ALVAREZ: No, no. I was just
19 listening in. I'm not -- I'm actually
20 supposed to participate tomorrow but I had my
21 times screwed up so I was just listening in.

22 MR. KATZ: Okay.

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1 MR. ALVAREZ: So anyway, I'm about
2 to hang up in fact..

3 CHAIRMAN GRIFFON: Too exciting for
4 you?

5 MR. KATZ: Bye bye Bob.

6 MR. HINNEFELD: Someone else just
7 identified herself.

8 MR. KATZ: Yes someone else -- was
9 someone else trying to speak to us?

10 (No response.)

11 MR. KATZ: Okay.

12 CHAIRMAN GRIFFON: All right. 150.1
13 is what I'm up to now. Scott, do you have
14 this one down?

15 MR. SIEBERT: This is a Simonds Saw
16 & Steel.

17 CHAIRMAN GRIFFON: Yes. It seemed
18 like an AWE.

19 MR. HINNEFELD: Well, it could be
20 like, we'll have some --

21 (Simultaneous speaking.)

22 CHAIRMAN GRIFFON: Yes. Right.

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1 MR. HINNEFELD: Based on where we
2 are now on research. We should be able to
3 fill this in. There's one on the last one too.
4 You want to make a note we've got something to
5 do on it, though, which is provide a response
6 in light of the Simonds ER.

7 MEMBER MUNN: One more time, which
8 item is this? We're still on 51.

9 DR. ULSH: No, no. 150.1

10 MR. HINNEFELD: 150.1, yes.

11 MEMBER MUNN: Have you already gone
12 two steps? No. And what we are saying today
13 is?

14 DR. ULSH: NIOSH needs to provide a
15 response in light of the Simonds Evaluation
16 Report.

17 DR. MAURO: Yes, this could be -- I
18 think it's very timely. You definitely
19 wouldn't want some of these issues that are
20 sort of floating to emerge while you are in
21 the middle of the ER process.

22 MR. HINNEFELD: Well, ER is done

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1 later. The main thing we are presenting on ER
2 is going to -- you can position that with --

3 DR. MAURO: Yes. You'd like to be in
4 a position to say yes, our ER deals with this.

5 CHAIRMAN GRIFFON: The next one I
6 have, 150.2, I have being shifted to the
7 Procedures.

8 MR. HINNEFELD: Yes.

9 CHAIRMAN GRIFFON: But it --

10 MR. HINNEFELD: You need to make
11 sure that it gets caught there too.

12 CHAIRMAN GRIFFON: And this is
13 ingestion, so this sounds like a global issue
14 kind of thing, right?

15 DR. MAURO: Ingestion is a global
16 issue with OTIB-9 and we have gone a long way
17 to resolve that.

18 CHAIRMAN GRIFFON: Yes, it's OTIB-9,
19 yes, so we'll follow it in Procedures, right.

20 DR. ULSH: But that's still a NIOSH
21 action item?

22 MR. HINNEFELD: Yes.

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1 CHAIRMAN GRIFFON: Yes. 151.1

2 MEMBER CLAWSON: This gets back to
3 the one that we had, surface contamination.

4 DR. ULSH: Is that 149.4, is that
5 where you were referring to, the earlier issue
6 about --

7 MEMBER MUNN: Is that still the same
8 issue as -- the same response in 150.1?

9 CHAIRMAN GRIFFON: I'm not sure.

10 MR. HINNEFELD: We would have to
11 look at -- no it's not possible to know for
12 sure because we would have to look at what was
13 the basis for the initial starting level in
14 each of the two situations, so --

15 MEMBER MUNN: So it's not covered in
16 the previous one --

17 MR. HINNEFELD: No. I don't think
18 so.

19 MEMBER CLAWSON: This one calls out
20 that SC&A suggest using the --

21 MR. HINNEFELD: Yes, the specific
22 reference, yes.

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1 CHAIRMAN GRIFFON: Yes, the add
2 later part.

3 DR. MAURO: We've received -- a lot
4 of that has been resolved, in several places.
5 The Adley report has to do with deposition,
6 accumulation of services and we resolved that,
7 the ingestion part of it. You know, once you
8 have got it on the surface and now we are
9 comfortable with the way you model it.

10 CHAIRMAN GRIFFON: It's just tying
11 it together. Where did that come up in -- was
12 it in 6000 Work Group?

13 DR. MAURO: 6000. Absolutely, yes.

14 MR. HINNEFELD: We'll get it from
15 the 6000 --

16 CHAIRMAN GRIFFON: Check on the
17 6000.

18 DR. MAURO: They are all starting to
19 get interconnected.

20 MR. HINNEFELD: Right, right, yes, a
21 lot of these were done before 6000 was out
22 there, so yes.

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1 DR. ULSH: Tied to a 6000 Work
2 Group?

3 MR. HINNEFELD: Yes.

4 DR. MAURO: Which has been resolved,
5 which is interesting.

6 MR. HINNEFELD: We just need to get
7 it on here.

8 DR. ULSH: Yes.

9 MR. HINNEFELD: Okay, if it's been
10 resolved there, we just need to get the
11 resolution on here. We provide administration
12 support for the Advisory Board, that's our
13 action.

14 DR. ULSH: All right, so we change
15 the matrix? Is that what you are saying?

16 MR. HINNEFELD: What we'll do is we
17 always add things to the matrix.

18 DR. ULSH: All right.

19 MR. HINNEFELD: We always add things
20 to the matrix, and then the only thing we
21 don't change is status.

22 DR. ULSH: Okay.

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1 MR. FARVER: In our original report
2 on that, related to that finding, it says,
3 during the issue's closeout process related to
4 Bethlehem Steel Site Profile review, NIOSH
5 agreed to revise the methodology for deriving
6 surface contamination. Since the claimant was
7 denied compensation, NIOSH considered revising
8 this DR with respect to the matter.

9 In other words what we are saying
10 is the surface contamination issue has been
11 resolved in general but you may want to go
12 back and look at it for this case.

13 CHAIRMAN GRIFFON: Oh yes, this is a
14 little different, yes. Yes. So don't lose
15 sight of the end of this case on that, yes.

16 MEMBER CLAWSON: Well, this is the
17 question that I brought up earlier, when we
18 are going through and we are spot checking
19 these, and we see an issue like this, and it
20 may affect this case but how do we make sure
21 that it checks other cases because there might
22 be numerous ones that this would affect. It's

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1 my understanding this is why we are doing
2 these reviews and stuff like this, to assure
3 that we are doing it right and if we have got
4 a problem like this that is say site-wide or
5 whatever, that we are going back and checking
6 those. How do we --

7 DR. ULSH: Well, it seems -- well
8 I'm going to take a shot Brad, it seems to me
9 that when we change a document like a TBD or a
10 TIB, isn't it our normal practice to do a PER
11 to see which cases that might affect and go
12 back and --

13 MR. HINNEFELD: That's what would
14 happen.

15 DR. MAURO: I've seen that on Site
16 Profiles. I haven't seen it on Procedures, you
17 know, and the PER -- had there been any -- had
18 there been procedures changes, generic, that
19 triggered PERs? I'm not sure. There may have
20 been.

21 MR. HINNEFELD: Well, the lymphoma
22 one was not a Site Profile one.

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1 DR. MAURO: Yes you're absolutely
2 right.

3 DR. ULSH: And this is the -- if I
4 understand correctly, this came up in the TBD-
5 6000 Work Group, right? So if that were to
6 change, then --

7 CHAIRMAN GRIFFON: It came up
8 probably before that but I think it was
9 handled in the TBD-6000.

10 MR. HINNEFELD: What we -- yes, what
11 we need, what we need to find out, make sure
12 we are doing here is you see some of these
13 would have been done before TBD-6000 was done,
14 so if in fact there is a change to these
15 earlier techniques from TBD-6000 and the
16 resolutions of TBD-6000 then we need to go
17 back and see which of these -- which of these
18 things done before TBD-6000, and there were a
19 lot of individual Site Profiles written that
20 were before TBD-6000, and we need to evaluate
21 the change on those. Now we pretty much have
22 a resolution on 6000, what does that change in

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1 all these earlier approaches and so we can go
2 back and change what needs to be changed in
3 those earlier approaches.

4 So this is beyond the scope of our
5 activities here. This is our scope, our
6 programmatic scope back there in the office,
7 is that we need to make sure that, though, we
8 capture the TBD-6000 approach in AWEs or
9 relevant sites that were done prior to the
10 TBD-6000 being completed.

11 MEMBER CLAWSON: And I agree with
12 you fully on that Stu, but what I was also
13 going to ask Wanda, is that part of the TBD
14 when we -- I'm not a part of that Procedures
15 group. Is that something that, when we change
16 this or we look in that, that it gets changed
17 back? You know, if you have got numerous cases
18 out there that were done before this TBD-6000
19 was put in, are we -- is there anything that
20 we check out or is that more --

21 MR. HINNEFELD: What the Procedures
22 Subcommittee does is it evaluates PERs.

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1 MEMBER MUNN: It triggers NIOSH to
2 do a PER.

3 MR. HINNEFELD: And they also
4 evaluate PERs, not only the document, but they
5 look at claims that were reworked under the
6 PER or at least they are starting to. So yes,
7 there is a loop back on that.

8 MEMBER CLAWSON: Okay. I just -- you
9 know, we look at this and I just never see the
10 loop back on so many of these and I -- it kind
11 of seems like to me personally that it is kind
12 of unfinished, because we don't see -- and I'm
13 not saying that you are not doing it, it's
14 just as a Work Group here we don't see that
15 loop back.

16 MEMBER MUNN: Probably as a general
17 rule of thumb, checking what the status of the
18 PER is sometimes answers the question.

19 MR. KATZ: So Brad, you'll actually
20 see the loop now because the Dose
21 Reconstruction Subcommittee will do the
22 selecting of the cases after they evaluate in

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1 Procedures the PER.

2 MEMBER CLAWSON: Right.

3 MR. KATZ: The last step of that
4 process is to select a set of dose
5 reconstructions to validate it being
6 implemented --

7 MEMBER CLAWSON: Okay,

8 MR. KATZ: And this Subcommittee
9 will do the selection of those cases.

10 MEMBER CLAWSON: Okay, that -- I
11 think I brought this up earlier, about a year
12 or two ago, yes, that's what I was trying to
13 get.

14 MEMBER MUNN: Yes, it took us a
15 while to decide exactly how that group was
16 going to work. I think we've got it.

17 CHAIRMAN GRIFFON: 151.2 is back to
18 the ingestion model, that action stays the
19 same is going to the Procedures Subcommittee,
20 TIB-9.

21 DR. ULSH: So that's the same as
22 finding 150.2, is that what you are saying?

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1 CHAIRMAN GRIFFON: Same outcome, I
2 think.

3 DR. ULSH: Okay, so what I had for
4 150.2 is that it was transferred to the
5 Procedures Subcommittee. It's a global issue
6 related to ingestion and that relates to OTIB-
7 9.

8 CHAIRMAN GRIFFON: Yes.

9 DR. ULSH: And that remains a NIOSH
10 action item. Is that what you want --

11 CHAIRMAN GRIFFON: I think the only
12 difference in this one, the potential effect
13 on this case is unclear still, right Doug?
14 This is a less than 50 percentile one, right?
15 So we may have to still consider --so, we
16 should also keep that in the loop.

17 MEMBER MUNN: Savannah River Site.

18 CHAIRMAN GRIFFON: I think it's
19 closed other than that action is going to the
20 Savannah River Site, right?

21 MR. HINNEFELD: I believe so.

22 CHAIRMAN GRIFFON: Yes. Doug, you --

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1 MR. FARVER: Yes, correct.

2 DR. ULSH: 151.2.

3 MR. HINNEFELD: 152.1.

4 DR. ULSH: And if what I see in the
5 yellow action item is NIOSH will follow up on
6 this case --

7 CHAIRMAN GRIFFON: And I think you
8 did that on July 23, so I took that out of
9 there. I believe, yes.

10 DR. ULSH: So there's no action item
11 for NIOSH then?

12 DR. MAURO: I just had a thought. We
13 are at a level of maturity in the process now
14 where I think that all of the findings we
15 have, with the hundreds if not before, can
16 fall into one of two groups: one where there
17 are quality issues, whereby they were supposed
18 to follow a certain procedure, do this, that
19 or the other thing according to procedure and
20 it wasn't done and it has to be fixed, and
21 that's specific to that case, because that
22 case, that was something that was done that

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1 shouldn't have been done that way, and
2 everything else is transferred.

3 You see why I am saying that?
4 Because everything else would be oh, we don't
5 really care for the way you did this here, not
6 because you did something wrong, it's because
7 we don't like the Site Profile, we don't like
8 OTIB-9. It all -

9 CHAIRMAN GRIFFON: If anything goes
10 to Procedures it's --

11 DR. MAURO: So in a funny sort of
12 way --

13 CHAIRMAN GRIFFON: Right, right.

14 DR. MAURO: I just had an idea that
15 was one that might very well streamline this
16 process. What I mean by that, is if somehow we
17 can -- every single finding that we make,
18 maybe this goes to us now, we could bin it,
19 say this is something that is specific to this
20 site because it is a -- I'll call it a quality
21 issue for want of a better term -- because it
22 applies to this case, because it wasn't

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1 implemented the way you say you were going to
2 implement it, and everything else goes some
3 place else, right? Is there anything else?

4 MR. KATZ: Well, no, I mean I agree
5 with your binning except that I think this
6 Subcommittee needs to decide whether that goes
7 somewhere else or whether they agree --
8 whether they agree or not, that that -

9 DR. MAURO: We can actually suggest
10 it, where the home of this issue -- every
11 issue that we raise, we could give it a home,
12 a suggested home, and if it leaves here and
13 you folks get to it, I can see you buzzing
14 right through these things -- you know,
15 listen, this is --

16 CHAIRMAN GRIFFON: The only piece
17 you are missing is the loop back on the
18 effectiveness of the overall, you know, NIOSH
19 to get the right answers, I mean -- get the
20 quality piece in but if you are -- referring
21 it for resolution it is fine but then it has
22 to somehow come back to say that we can look

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1 at each individual case and see --

2 DR. MAURO: Oh yes -

3 CHAIRMAN GRIFFON: Once that
4 disagreement was resolved, the outcome --

5 DR. MAURO: Oh yes, the loop is
6 still there.

7 CHAIRMAN GRIFFON: Right, right,
8 right.

9 MR. KATZ: But I think this
10 Subcommittee has a first step, to decide that
11 that is an issue that needs further resolution
12 elsewhere, because you may review SC&A's
13 review and say we don't agree with you --

14 CHAIRMAN GRIFFON: Yes, yes, yes.

15 (Simultaneous speaking.)

16 CHAIRMAN GRIFFON: Preliminary
17 binning it, so to speak, and then we can
18 decide, decide here and move it. Yes.

19 MR. KATZ: This Subcommittee --

20 MEMBER MUNN: Three of you are
21 talking at the same time. I can't imagine
22 what is going into the transcription.

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1 MR. KATZ: Just every other word
2 goes into it.

3 MEMBER PRESLEY: Who's going to keep
4 up with this?

5 CHAIRMAN GRIFFON: Yes, it's got to
6 be tracked on here.

7 MEMBER MUNN: It's got to be tracked
8 here, yes.

9 CHAIRMAN GRIFFON: It's got to be
10 tracked here.

11 MEMBER MUNN: From the 30,000 foot
12 view, I think John is absolutely right, but in
13 terms of what that still means for us in terms
14 of tracking, it would -- we could approach it
15 slightly differently but we would still have
16 to do this one by one tracking, I think.

17 MR. FARVER: Well there's a finding
18 coming up that doesn't exactly fit in. It has
19 to do with -- on Savannah River reports, their
20 external dose also has tritium in it, the and
21 you'll subtract out the tritium, but the one
22 finding we have here is that is not well-

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1 documented. Now, that's not really a quality
2 issue -

3 DR. MAURO: Yes, where do you put
4 that?

5 MR. FARVER: It's not really give it
6 to another Subcommittee, it's something that
7 we have to discussed here and does that
8 documentation need to be included somewhere.

9 MR. KATZ: Mike, were you trying to
10 say something?

11 MEMBER RICHARDSON: This is David
12 Richardson.

13 MR. KATZ: Oh, David.

14 MEMBER RICHARDSON: Yes, I think is
15 a really -- it's, the point that John has
16 raised sounds very much to me like the point
17 that Brad raised and I was wondering, as a
18 suggestion, if we would have a period of time,
19 at the end of the meeting to kind of step back
20 and look at the process. That would be useful
21 for me, because I have had the same feeling
22 about kind of stepping back and looking at

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1 what -- what are the objectives of this what I
2 would call Program Evaluation, how is it being
3 used and do we want to think about how to
4 design it in order to address issues like
5 reproducibility and quality, and then
6 procedural issues, and those seem to be the
7 classes that John, that you were -- some of
8 them need to be referred to procedural issues
9 and other ones are specific to the program and
10 implementation.

11 So, if we could talk about that at
12 some point, it doesn't have to be in the
13 middle of -- we are kind of in the middle of,
14 right here, this eighth matrix, so maybe it's
15 worthwhile to wrap this up.

16 But I think that's a -- for me that
17 would be a useful discussion to have and help
18 get me up to speed. Because there's a lot of -
19 - a lot of this is very much looking at the
20 specific trees and not looking at the forest
21 and it seems like this is a bigger issue being
22 raised.

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1 CHAIRMAN GRIFFON: Right, right,
2 right. I agree with that. Our first attempt to
3 look at the forest was the first 100 cases
4 report which we are still trying to bring to a
5 close, but yes, we can discuss that a little
6 later in the meeting if that's all right
7 David.

8 MEMBER RICHARDSON: Right.

9 MEMBER MUNN: But, of course the
10 real charter of the Dose Reconstruction
11 Subcommittee is to look at the trees, okay?
12 That's what we are here for, no?

13 DR. MAURO: Yes.

14 MEMBER RICHARDSON: I think it is --
15 okay, I mean we can go back to this, but it's
16 a question of how this process is being used,
17 for example by NIOSH in their 10-year Program
18 Evaluation and are we -- can we think about
19 tweaking the way we are doing things that
20 would be helpful for the users of this
21 evaluation. That would be how I would put
22 this.

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1 CHAIRMAN GRIFFON: Okay.

2 MEMBER MUNN: Always a good idea.

3 CHAIRMAN GRIFFON: All right, so
4 where are we at? 152.2?

5 DR. ULSH: Well, I think 152.1, I
6 had no NIOSH action on that one.

7 CHAIRMAN GRIFFON: Right. Right.
8 Right.

9 DR. ULSH: That's all I had.

10 CHAIRMAN GRIFFON: That stands as
11 closed, yes. 152.2 is nothing. I guess the
12 next one I have is 152.4.

13 MR. FARVER: This was the finding I
14 mentioned. It really doesn't fit into the --

15 CHAIRMAN GRIFFON: Oh yes. Yes.

16 MR. FARVER: Quality or Work Group
17 category.

18 DR. MAURO: Is this a transparency
19 issue, would you call it, in other words --
20 you can't figure out what's being done?

21 MEMBER CLAWSON: I thought this kind
22 of like -- I don't know if this was showing

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1 their works when --

2 DR. MAURO: Showing transparency.

3 MR. FARVER: Documenting it
4 somewhere that this is how you're going to do
5 it and this is how you do it.

6 DR. MAURO: I have to say that one
7 of the things that has happened more recently,
8 at least for me, is the workbooks that you had
9 -- I mean it's not in the DR report.

10 MR. HINNEFELD: Right.

11 DR. MAURO: But when you get into
12 the workbook, which is not an easy thing to do
13 by the way, when you get into the workbook, we
14 do have people that get very good at that; we
15 are now able to tease that out a little better
16 because the workbooks are there, and I think
17 you are going toward that. In other words we
18 have to go dive into the workbook and sort of
19 tease it out and see what they did, or are you
20 saying something different?

21 MR. FARVER: Well, I'm saying that
22 it's not in the documentation that this is how

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1 they are going to do it. A lot of times in the
2 workbook, what they are doing is just
3 basically what they said they were going to do
4 in the TBD.

5 CHAIRMAN GRIFFON: In this case --

6 MR. FARVER: In this case, they do
7 something in the workbook, but they don't
8 describe it in the TBD, saying this is how
9 they are going to do it.

10 DR. MAURO: Is it --

11 MR. FARVER: So you can't tell if
12 it's correct or not.

13 DR. MAURO: Okay, is it -- I'm sorry
14 -- but it is an interpretation? In other
15 words, the workbook is basically a machine
16 that implements some procedure in some very
17 systematic way --

18 MR. FARVER: Yes.

19 DR. MAURO: Sometimes very complex.
20 You are saying it goes beyond that, where
21 there is a certain interpretation that is
22 being applied?

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1 MR. FARVER: No, it's doing
2 calculations that are not in the
3 documentation.

4 DR. MAURO: Documentation, but when
5 you say documentation, you're saying not in
6 the workbook --

7 MR. FARVER: TBD.

8 DR. MAURO: not in the, not in the -
9 - oh, okay. It's not in the TBD either.

10 MR. FARVER: Right.

11 DR. MAURO: It's only in the
12 workbook.

13 MR. FARVER: The TBD doesn't talk
14 about subtracting --

15 DR. MAURO: Ahh.

16 MR. FARVER: The tritium doses --

17 DR. MAURO: Okay.

18 MR. FARVER: From the external
19 doses.

20 DR. MAURO: This is an important --
21 yes, you see this is an important category.

22 MR. FARVER: So it's not that it's

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1 wrong necessarily, it says show your work type
2 of thing.

3 DR. MAURO: It's almost a supplement
4 to a TBD. It happens to find its way into a
5 workbook, this is how we are applying it here.

6 MR. FARVER: Yes.

7 DR. MAURO: Got you.

8 MEMBER MUNN: But instead of showing
9 your work, show why you are doing this work
10 really.

11 MR. FARVER: Yes, I mean if you are
12 --

13 MEMBER CLAWSON: Well, I think what
14 this -- if I can, Doug, I think where a lot of
15 this came up numerous times is you guys have
16 gone back and tried to reconstruct what was
17 done with the blind ones, and we can't even
18 come close to them because there's been things
19 that have been done that aren't in the works
20 for --

21 MR. FARVER: In the TBD -

22 MEMBER CLAWSON: and everything else

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1 like that --

2 MR. FARVER: Procedures -

3 MEMBER CLAWSON: And the whole thing
4 is, if you're going to do something like this,
5 it should be able to be reconstructed very
6 simply and done basically showing your work,
7 just like in school, you can have a deal here
8 and the answer but I want to see how you got
9 that answer.

10 MR. FARVER: It's hard to tell if
11 it's correct if you don't have something
12 supporting it.

13 MEMBER MUNN: If you don't have the
14 structure to begin with, yes.

15 MR. FARVER: This is why we do it
16 this way.

17 DR. MAURO: If anything, it is when
18 that's done, maybe this is the hard -- this is
19 always going to happen. You owe it to every
20 dose reconstruction, it's probably going to
21 run into the situation of what do I do now,
22 and you can't prescribe everything, and when,

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1 I guess -- and you would never want to take a
2 certain amount of judgment away from a person
3 doing the job who is a professional at it.
4 Just tell us your story. Tell us what you did.

5 MR. FARVER: This is a specific case
6 with Savannah River records, the way they
7 write up their records, they include their
8 tritium on their external dosimetry program
9 and that's how they monitor for tritium.

10 DR. MAURO: Yes, yes, that's how
11 they build it, yes.

12 MR. FARVER: And so therefore they
13 subtract out tritium from their external dose
14 --

15 DR. MAURO: Okay.

16 MR. FARVER: and report it as
17 tritium dose. All we are saying in this
18 finding is, put that in the TBD somewhere
19 saying this is how you want to --

20 (Simultaneous speaking.)

21 MR. KATZ: In addition to the TBD -

22 DR. ULSH: So this remains a NIOSH

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1 action?

2 CHAIRMAN GRIFFON: Yes.

3 MR. SIEBERT: And this is Scott
4 Siebert. Just to let you know, we do have that
5 on our plate to put it in the next version of
6 the Savannah River technical basis document.
7 I'm looking at a draft right now and it's
8 being addressed.

9 CHAIRMAN GRIFFON: Okay, the next
10 one is the 152.6. Is that correct? Okay.
11 152.6.

12 MEMBER CLAWSON: I've got a question
13 for Stu. You know I was just listening to what
14 Scott said and I just -- you've got the
15 changes coming out to that procedure so make
16 this look back and so forth, like that, the
17 next time that we come to this meeting or
18 whatever else like that, this would be the
19 conclusion of this, the profile is changed or
20 whatever, correct?

21 CHAIRMAN GRIFFON: Yes.

22 MEMBER CLAWSON: And the time. Okay.

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1 CHAIRMAN GRIFFON: Okay. 152.6. Is
2 this the chooser approach versus the TIB-54?
3 Is it two different approaches for the --
4 isn't that right?

5 MR. HINNEFELD: Yes.

6 CHAIRMAN GRIFFON: The chooser
7 approach was the earlier approach, right?

8 MR. HINNEFELD: Yes.

9 CHAIRMAN GRIFFON: Yes. So yes, I
10 guess we are asking for a comparison of the
11 older method with the newer method to see if
12 it is still as conservative, right or
13 whatever.

14 MR. HINNEFELD: Right.

15 CHAIRMAN GRIFFON: And I`m not sure
16 what, but it sounds like this potentially had
17 an effect on this case too, so I think it's a
18 case-specific, you know, one as well. Yes. So
19 that remains a NIOSH action item.

20 Okay 153.1. Some of these -- no I
21 think this one is an example that NIOSH really
22 hadn't done any work on this, so it remains a

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1 NIOSH action item and I'm not going to add to
2 it. The next two are that way, 153.2 as well.

3 153.6 was an SC&A action. Did you
4 have that one Doug?

5 MR. FARVER: No.

6 (Simultaneous speaking.)

7 CHAIRMAN GRIFFON: Yes, yes. Sorry
8 about that. Got to go on to my next page.

9 MR. HINNEFELD: So it's our action.

10 MEMBER MUNN: You know if the PER is
11 down here or not?

12 CHAIRMAN GRIFFON: Yes, it's under
13 PER review, it says, but I don't know, it
14 might have been multiple PERs, right, that
15 case, so I'm not sure Wanda. If this was
16 Savannah River it would have fallen under --

17 MR. HINNEFELD: Well, it could have
18 been Super S I think pretty much everything on
19 Savannah River got reworked for Super S
20 plutonium.

21 CHAIRMAN GRIFFON: Right.

22 MR. HINNEFELD: Now, these

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1 particular findings don't relate to Super S
2 plutonium. They relate to -- we are putting
3 zeroes, not counting a film badge reading that
4 is left not counting as a zero. That's what
5 the finding relates to.

6 CHAIRMAN GRIFFON: Right.

7 (Simultaneous speaking.)

8 MR. HINNEFELD: Was done correctly.

9 CHAIRMAN GRIFFON: I think this was
10 one of those ones that was very close so it
11 could have potentially --

12 MR. HINNEFELD: Yes.

13 CHAIRMAN GRIFFON: I think this was
14 a close one.

15 MR. HINNEFELD: Could have been.

16 CHAIRMAN GRIFFON: Yes.

17 MR. HINNEFELD: I don't know.

18 CHAIRMAN GRIFFON: All right.

19 DR. ULSH: So 153.6, I have it as a
20 NIOSH action item to review SC&A's --

21 CHAIRMAN GRIFFON: Yes, SC&A came
22 back with that response at the last meeting

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1 and then it's back in your court now. And
2 let's see, 153.7, it looks like SC&A had a
3 response at the last meeting. And the same
4 thing, NIOSH will review. I mean, stop me if
5 we need to -- any discussion on these items
6 now or if you just haven't -- yes, okay.
7 153.8, oh that's the chooser approach again,
8 the same.

9 MEMBER MUNN: That's a NIOSH action.

10 CHAIRMAN GRIFFON: The one that we
11 had above, yes.

12 MEMBER MUNN: Yes.

13 CHAIRMAN GRIFFON: It's comparing of
14 the old fission product approach versus TIB-
15 54.

16 DR. ULSH: I didn't get that chooser
17 part. Which earlier finding did that relate
18 to?

19 CHAIRMAN GRIFFON: I'll have to go
20 back. It was 152.6, it's the same thing.
21 They're both Savannah River cases, yes. 154.1.

22 MEMBER MUNN: On NIOSH action. No

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1 change.

2 CHAIRMAN GRIFFON: Yes, I'm not sure
3 what the action there is though. They are
4 going to review the nature of the error and
5 how to prevent it in the future.

6 MR. SIEBERT: Actually -- this is
7 Scott -- this one is pressed in the quality
8 document that we are getting to later, this
9 specific -

10 CHAIRMAN GRIFFON: That's what I was
11 going to say. It sounds like a quality follow
12 up, right? Yes.

13 MR. SIEBERT: So it is in there.

14 CHAIRMAN GRIFFON: Okay. 154.2 then
15 looks like the same kind of thing, yes. So I'm
16 leaving in those actions now, but I think,
17 Scott, we are going to have some discussion on
18 them.

19 DR. ULSH: Well, I'm putting both
20 154.1 and .2 remains a NIOSH action item
21 addressed in that --

22 CHAIRMAN GRIFFON: Right, quality --

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1 DR. ULSH: Assurance follow up.

2 CHAIRMAN GRIFFON: Right.

3 MEMBER MUNN: The description here
4 doesn't even show any difference between them.

5 CHAIRMAN GRIFFON: I know. That
6 looks very close, didn't they?

7 MEMBER MUNN: Considering they are
8 the first and the second.

9 MR. FARVER: One's recorded.

10 MR. HINNEFELD: One's recorded and
11 missed.

12 CHAIRMAN GRIFFON: Oh, okay,
13 recorded and missed. Very close. Same
14 essential thing.

15 MEMBER MUNN: Okay. Two findings.

16 CHAIRMAN GRIFFON: 155.4. It's a
17 matter of modifying the Site Profile. Is this
18 still Savannah River, this case, 155?

19 MR. SIEBERT: Yes, it is.

20 CHAIRMAN GRIFFON: Has this been
21 considered in the revision, Scott?

22 MEMBER MUNN: Why do we have all

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1 these SRS -

2 CHAIRMAN GRIFFON: I know.

3 MR. FARVER: Somebody selected them.

4 MEMBER MUNN: I was absent that day.

5 CHAIRMAN GRIFFON: I don't think so,
6 Wanda. Your attendance record has been pretty
7 good.

8 MEMBER MUNN: You would have
9 remembered it.

10 CHAIRMAN GRIFFON: I would have
11 remembered that day.

12 MR. SIEBERT: I don't know if this
13 is specifically being addressed in the
14 revision or not.

15 CHAIRMAN GRIFFON: Okay. Maybe we
16 can keep it as an action for you to look at
17 that. So Site Profile revision question.

18 MEMBER MUNN: And the same OTIB-54
19 question we had earlier.

20 CHAIRMAN GRIFFON: Okay, 155.6.
21 That's the same thing --

22 MEMBER MUNN: Yes.

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1 DR. ULSH: Same as 155 --

2 CHAIRMAN GRIFFON: As we just had,
3 yes. And then 155.7 is back to the chooser
4 versus TIB-54 question. Several of these, they
5 are all Savannah River so they are competing
6 findings here.

7 156.1, SC&A gave us a response in
8 July. And NIOSH -- yes. I think you needed to
9 sort of look at SC&A's response, right, so
10 it's back in NIOSH's court. This is a work
11 location question, right?

12 MR. FARVER: No, this is whether you
13 wore one TLD or two TLDs -

14 CHAIRMAN GRIFFON: Oh, okay. Okay.

15 MR. FARVER: a separate neutron
16 dosimeter or just a TLD that had neutron --

17 CHAIRMAN GRIFFON: Oh yes, yes.

18 MR. FARVER: Capabilities.

19 CHAIRMAN GRIFFON: Was it whether,
20 or whether he was required based on work
21 locations or -- well, I guess it's all --

22 MR. FARVER: I guess if it's a

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1 separate neutron dosimeter, then you would
2 address like missed neutron dose and things
3 like that, or unmonitored dose.

4 MR. HINNEFELD: Yes, the question
5 whether the person was specifically monitored
6 for neutron or they were just given a badge
7 that happened to have a neutron badge in it,
8 so even they didn't need monitored --

9 CHAIRMAN GRIFFON: Yes, yes. 156 --
10 oh no, no, these are all clear, sorry. I'm
11 getting carried away. 156.5. This looks like
12 another NIOSH follow up from --

13 MR. FARVER: It looks like the same.

14 MR. HINNEFELD: The same one --

15 CHAIRMAN GRIFFON: Yes. Oh, it's the
16 same one, okay. Yes.

17 DR. ULSH: So the same as 156.1?

18 MR. HINNEFELD: I believe so, yes.

19 CHAIRMAN GRIFFON: Yes. We actually
20 have a fair amount of non-yellow. I'm
21 impressed.

22 MR. HINNEFELD: For 156.7 there's

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1 nothing in here to do except it was
2 transferred. We need to make sure that got
3 done.

4 CHAIRMAN GRIFFON: Oh, okay, sorry,
5 I didn't catch that.

6 MR. HINNEFELD: Well, there's no
7 yellow on it, but it's a transfer and I
8 thought we needed to make sure that got done.

9 CHAIRMAN GRIFFON: And I may have
10 missed another one of -- or some other one of
11 those, Stu, if you are keeping an eye out for
12 those.

13 MR. HINNEFELD: I think that was the
14 first one.

15 CHAIRMAN GRIFFON: Okay.

16 MR. HINNEFELD: The first one that
17 didn't have any sort of highlight.

18 CHAIRMAN GRIFFON: 160.3 I see
19 another transfer to Procedures Work Group,
20 TIB-54.

21 MR. HINNEFELD: Okay, now there's no
22 highlighting on 157.1 or .2 but I don't see

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1 we've ever responded initially.

2 CHAIRMAN GRIFFON: 157?

3 MR. HINNEFELD: 157.1 or .2.

4 CHAIRMAN GRIFFON: Oh yes, it's
5 probably because you didn't respond initially,
6 though.

7 MR. HINNEFELD: Yes.

8 CHAIRMAN GRIFFON: Yes, so you're
9 right.

10 MR. HINNEFELD: 157.1 and .2 will
11 need our initial response.

12 CHAIRMAN GRIFFON: Yes, obviously if
13 they are blanks they, yes, we need a response.
14 Sorry I should probably highlight the numbers
15 on those.

16 DR. MAURO: That would be classified
17 as open if this was a procedural review,
18 right?

19 CHAIRMAN GRIFFON: Exactly. It would
20 be open.

21 DR. ULSH: Don't skip over 160.3
22 when you get there --

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1 CHAIRMAN GRIFFON: Right.

2 DR. ULSH: Because I didn't write
3 down, what status you had.

4 CHAIRMAN GRIFFON: Yes. Yes. I'm
5 there right now. 160.3. I have --

6 DR. ULSH: Transfer to somewhere?

7 CHAIRMAN GRIFFON: Transfer to
8 Procedures Work Group, TIB-54 and the whole
9 body counting results. And it says the case is
10 currently being reworked. It must be a PER
11 rework, or -- it doesn't say PER. Usually I
12 say PER if it --

13 MR. HINNEFELD: It could have been
14 return for additional cancer --

15 CHAIRMAN GRIFFON: Yes, yes.

16 MR. HINNEFELD: Or something.

17 CHAIRMAN GRIFFON: I'm sure Scott
18 probably looked it up during the meeting for
19 us, you know. Scott, do you know what site
20 this is from?

21 MR. SIEBERT: Which number I'm
22 sorry?

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1 CHAIRMAN GRIFFON: 160.

2 MR. SIEBERT: 160 is Hanford.

3 CHAIRMAN GRIFFON: Hanford. That
4 could be a PER rework, too, right, I guess.

5 MR. HINNEFELD: Could be. Could be -

6 -

7 CHAIRMAN GRIFFON: Yes.

8 MR. HINNEFELD: Additional cancer --

9 CHAIRMAN GRIFFON: Yes, yes.

10 MR. HINNEFELD: Could be additional
11 employment.

12 CHAIRMAN GRIFFON: Well, what does
13 that mean to us, the case is being reworked. I
14 have that in several of the others. Does that
15 mean we are going to look at it again after
16 the rework?

17 MR. HINNEFELD: Well, we haven't
18 made that necessarily a part of the practice.

19 CHAIRMAN GRIFFON: I know, but I'm
20 just looking at these responses, it says,
21 NIOSH agrees and then it says the case is
22 being reworked. So I don't know that -- is

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1 that sufficiently closed out, I'm not sure.

2 MEMBER MUNN: Well, in this
3 particular case, where it's transferred to
4 Procedures and TIB-54, I have it on my list to
5 check.

6 CHAIRMAN GRIFFON: Yes, I'm looking
7 at 160.1 and .2, though, also. They say NIOSH
8 agrees, the case is being reworked, NIOSH
9 agrees, the case is being reworked. If -- I
10 mean, I guess the only question would be, if
11 they were reworked and it ended up affecting
12 the outcome, I don't know what the PoC was
13 originally, but you know, we would sort of
14 want to know that if it was reworked and it
15 had an effect on the outcome of the case.

16 MR. SIEBERT: Just a second here. It
17 has been reworked. It's been approved. Give me
18 a second. The rework was compensable barely.

19 CHAIRMAN GRIFFON: And what was it
20 before the rework?

21 MR. HINNEFELD: Now you're asking a
22 difficult question. That piece of information

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1 is not really available anymore.

2 MR. SIEBERT: Less than that, how's
3 that?

4 CHAIRMAN GRIFFON: I'm guessing it
5 was, well -- I don't know. I don't want to
6 guess.

7 MR. FARVER: It was less. It was
8 48.7.

9 CHAIRMAN GRIFFON: It was 48.7.

10 MR. HINNEFELD: Scott, do you know
11 why it was reworked?

12 MR. SIEBERT: Let me look at the
13 draft here real quick. Most likely Super S,
14 but --

15 DR. MAURO: Lung cancer case?

16 MR. HINNEFELD: Wouldn't necessarily
17 have to --

18 DR. MAURO: No? Super S?

19 MR. HINNEFELD: It could go up for
20 something -- it could go up on --

21 DR. MAURO: Okay.

22 MR. HINNEFELD: The bioassay record,

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1 when it ends, compared to when the person got
2 cancer, things like that.

3 MR. SIEBERT: There was a change in
4 employment and also they updated a Hanford
5 TBD.

6 MR. HINNEFELD: Okay.

7 MEMBER MUNN: Photon dose is
8 missing.

9 CHAIRMAN GRIFFON: So, it wasn't an
10 additional cancer or anything, I mean that
11 would be a --

12 MR. HINNEFELD: Additional
13 employment can do it too.

14 CHAIRMAN GRIFFON: Additional
15 employment can do it too, yes.

16 MR. KATZ: So unless you look at it,
17 you can't really whether it's -- what you
18 found here has to do with its change --

19 CHAIRMAN GRIFFON: Right. Exactly.

20 MR. KATZ: or whether it's other
21 factors.

22 CHAIRMAN GRIFFON: Exactly. Exactly.

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1 MR. HINNEFELD: Would you like us to
2 do that?

3 CHAIRMAN GRIFFON: I think we need
4 to, especially where it changed
5 compensability, yes.

6 MR. HINNEFELD: We should just track
7 down the history of this case and what has
8 changed in -- what the key functions, what the
9 key elements were of the change, and whether
10 or not this procedures issue had an effect on
11 it or not. It's going to take us a little but,
12 I mean, we've got to go and look up some
13 references to get the actual tracking number
14 and then look at the history.

15 MEMBER RICHARDSON: So, Mark, for an
16 issue like 160.1 or 160.2, there would be lots
17 of examples of those sorts of things in this
18 matrix, where there was perhaps a data entry
19 error or omission, NIOSH would agree with
20 that, and your concern here is just the
21 statement afterwards that says the case is
22 being reworked?

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1 CHAIRMAN GRIFFON: Yes, my concern,
2 and now, the added concern I guess is that it
3 was reworked and a lot of times it's reworked
4 and the compensation stays the same, you know,
5 so we still would follow up as overall, sort
6 of your forest idea, David is that we are
7 looking at all these quality issues in that
8 first 100 cases summary report to see what the
9 significance is, and if NIOSH needs to modify
10 from a programmatic level, but this issue, you
11 know, has often been touched on in our follow
12 ups in terms of well, you know, yes, small
13 mistakes were made but they didn't affect the
14 outcome. NIOSH got the right answer, you've
15 made the right decision as far as
16 compensability, so it's a lesser concern but
17 where your -- where this did flip the
18 compensation, we want to see if in fact it was
19 these findings or if it was the additional
20 employment or other issues that made that
21 happen.

22 If it was other employment then

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1 that's a factor outside of our review, you
2 know, obviously, and NIOSH's control, you
3 know, yes.

4 DR. MAURO: And teasing that out may
5 be a difficult thing to do.

6 MEMBER CLAWSON: If the overall
7 addressed in one rework it might be hard to --
8 we'll have to see, we'll just have to -- we'll
9 look at it.

10 CHAIRMAN GRIFFON: We'll have the
11 old version, though. Yes. We have to at least
12 try to track it down, yes.

13 MR. HINNEFELD: Until we look at it
14 we aren't going to be able to tell. It might
15 be hard to tease out if several changes were
16 made at once.

17 MR. FARVER: Although a lot of
18 times, in the DR report, if it's been reworked
19 it will say what the changes are.

20 MR. HINNEFELD: It's supposed to say
21 that, as of some date, it's supposed to say
22 what change in the rework.

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1 MR. SIEBERT: Yes, the rework does
2 state that there was a change of employment
3 and in an update of the technical basis
4 document, it was revised to reflect both those
5 new information.

6 MR. HINNEFELD: Yes, there have been
7 some -- as Hanford research has gone on,
8 there's been additional -- there's been some
9 stuff changed out there.

10 MR. KATZ: That would be outside of
11 this factor as well.

12 MR. HINNEFELD: That was probably
13 changed in response to the Hanford Work Group
14 documents.

15 MR. KATZ: Right.

16 CHAIRMAN GRIFFON: Yes. It's
17 difficult. I think we want to -- because this
18 is one of the first ones where we have really
19 had to look into the flip issue, so I think we
20 want to at least pull and follow up on that.

21 DR. MAURO: Mark, is your concern,
22 do you want -- when something does flip, and

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1 there could be multiple factors at play when
2 you do that, are you especially interested in
3 knowing which -- when it's flipped because it
4 was a rework for a PER or a rework for various
5 reasons you describe, or it was a quality
6 issue. Is that what you are concern was?

7 CHAIRMAN GRIFFON: Yes, I think we
8 have to know why.

9 DR. MAURO: You want to know when
10 it's a quality issue.

11 MR. FARVER: So, is that something
12 you would like us to do, go back and look at
13 this case as if it were, you know, they would
14 submit the files to us, and we would look at
15 those files and write up one of our reviews
16 and then we do a comparison between the first
17 review and the second review for selected
18 cases? It's something to think about.

19 MEMBER CLAWSON: Well, this kind of
20 comes back to how these changes were
21 implemented and stuff, and my earlier question
22 of you know, we say we are going to do these

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1 changes and then we make the full circle I
2 thought we were talking about.

3 MR. FARVER: So I believe this is
4 going to come up in case 175, I think one of
5 our actions is to review the reworked case.

6 CHAIRMAN GRIFFON: I guess my --
7 yes, I was just trying to think of a way to
8 streamline this, but I guess my hope would be
9 that NIOSH could take the first crack at it in
10 terms of identifying what was changed, so you
11 didn't have to review it as like a first, you
12 know, cut through, and then SC&A can respond
13 to whether they, you know, agree with that
14 assessment. Does that make sense? I mean I
15 think it's just a matter of identifying what
16 changes -- I'm not sure.

17 DR. MAURO: I guess when we go
18 through, when we do a Savannah River, it's
19 simply to see did they follow, did they do it
20 according to the rules and any finding we have
21 is going to be because they didn't right? Or
22 this other thing where they didn't explain it

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1 so that we could really figure it out. Now,
2 the overarching issues come in section 1.3 --
3 we have this section of every DR report where
4 we list all of the generic findings that we
5 had that applied to the Site Profile in the
6 case of say Savannah River. I'm just trying to
7 -- I don't know if there's anything -- and in
8 theory, we are not in a position to say
9 whether it flips or not, even though of course
10 we could, but we don't. I think we have just
11 gone some place where we haven't had this
12 conversation before.

13 CHAIRMAN GRIFFON: No, I know,
14 that's right.

15 DR. MAURO: And I'm -- it's not
16 apparent if in fact you would like to achieve
17 closure by saying okay, here's a case that we
18 had a number of findings, two of them were
19 quality, a couple of them are being
20 transferred because it goes back to the Site
21 Profile, so there's multiple issues at work
22 that will drive this case and whether it's

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1 going to be reworked, and whether it's going
2 to flip. I've got to say, I think that this is
3 another almost task that I don't think anyone
4 has done before. I don't know, have you -- I
5 mean we might identify the issues that were
6 addressed, but saying which ones, you know,
7 which ones were the -- was any single one the
8 one that turned it, you know --

9 MR. HINNEFELD: I don't think we
10 have ever done that. And in terms of whether
11 you assign it us or to SC&A, we might not have
12 resources to work on that.

13 DR. MAURO: And I don't think we
14 were ever in that world. I'll tell you why,
15 because this goes towards the question of
16 flipping a PoC, running PoC calculations.

17 MEMBER RICHARDSON: Yes, my view
18 would be that from a Program Evaluation
19 Standpoint, kind of the question of whether a
20 case is compensated and even whether there's a
21 correction needed for a case is less important
22 than the generic impact on -- so kind of a

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1 compensation decision for a case depends in
2 part upon the age at which the exposure
3 occurred, the person's sex, their smoking
4 history perhaps, lots of individual level kind
5 of nuances which aren't really important to
6 the kind of the generic process of how the
7 dose was evaluated, and all those are going to
8 be factors that weigh into whether this
9 Probability of Causation flips. But what I
10 think our objective is, and you can help me
11 with this somewhat more, would be each of
12 these findings, what's the impact in absolute
13 terms on the dose. And you could have the dose
14 estimate for the target organ for the
15 compensation claim and maybe for a few other
16 illustrative organs and see whether these
17 findings are important for, in absolute terms,
18 for the dose. Does that make sense?

19 MR. HINNEFELD: I think it would be
20 doable to find, sort out for each finding,
21 what's the impact on the dose.

22 CHAIRMAN GRIFFON: Yes, I think we

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1 want to focus more on the dose. I agree. But
2 then the only thing you might have to take out
3 of the equation for comparison's sake is the
4 change in employment, if --

5 MR. HINNEFELD: Yes, but I --

6 (Simultaneous speaking.)

7 MR. HINNEFELD: That would add or
8 subtract, I mean, it could have been he worked
9 -- he continued to work after the claim. It
10 could have been something as simple as that.

11 CHAIRMAN GRIFFON: Right, right,
12 right.

13 MR. HINNEFELD: He continued to work
14 after he claimed and had another diagnosis
15 later or something, although that would be an
16 additional --

17 CHAIRMAN GRIFFON: That would be an
18 additional cancer.

19 MR. HINNEFELD: Yes. It would stop
20 at the diagnosis.

21 CHAIRMAN GRIFFON: Yes.

22 MR. HINNEFELD: Covered employment

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1 stops at the diagnosis -- the relevant dose
2 stops at the diagnosis.

3 CHAIRMAN GRIFFON: Unless you have
4 additional employment that wasn't initially
5 reported or -

6 MR. HINNEFELD: Could have gone back
7 earlier, could have been a break that they
8 found records for --

9 CHAIRMAN GRIFFON: Right. Right.

10 MR. HINNEFELD: Could have been a
11 number of things, but I suspect it was
12 something like that.

13 DR. MAURO: What you're really
14 saying is listen, when -- at the end of this
15 process, a decision is made, PoC determination
16 is made, something is granted or is not, but
17 that's not the end of the process. There's a
18 whole lot of other things that will force you
19 back to go back and look at these cases again.
20 And out of that subset, out of that group, the
21 universe of all of the cases that you go back
22 and look at again, that have already been

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1 adjudicated, some subset flips, may be very
2 small, but some subset flips. And what you are
3 really saying is some kind of diagnostic,
4 global analysis needs to be done as almost
5 like a root -- do we have a root cause for the
6 one percent, the 0.1 percent that flipped,
7 whatever the number is, because you've got a
8 lot under your belt now -- 30,000? There is
9 probably some number that you can go any day
10 if they say okay, we have a couple of dozen
11 flips, we have a hundred, we have a lot of
12 flips, because of the -- high-fired alone
13 probably could have done it and what I am
14 hearing is somehow getting a diagnostic okay,
15 what does this tell us about the program,
16 where it may have had -- it's the flips that
17 you are really interested in and why, and the
18 root cause for why there was a flip, and it
19 may turn out every one is very different, and
20 maybe the smallest contribution may be quality
21 where you didn't count zeroes, because I know
22 we see that all the time and that changes

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1 things in a small way.

2 The big ticket item -- there are
3 some big ticket items also, and I don't know,
4 right now, I don't -- do you folks have --
5 let's go back, collect everything that flipped
6 and do an analysis and tell a story.

7 MR. HINNEFELD: We have not done
8 that. I think the analysis will have to be
9 done one by one. The additional complicating
10 factor in this analysis will be that it is
11 very possible that a portion, some part of
12 that dose reconstruction technique changed for
13 reasons other than additional data on the case
14 or came out of this -- it may have been
15 additional research done at the Site Profile,
16 at the site. It changed the Site Profile and
17 that technique changed for any cases and so
18 this one came back, it had all the changes in
19 it and doesn't matter, it won't -- so it may
20 not be -- there may be changes and there may
21 be counterbalancing changes, for instance a
22 change from one arena might act in opposite in

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1 terms of the magnitude of dose from a change
2 that came up in another arena.

3 So that will be the complicating
4 factor and each claim will have to be analyzed
5 individually to make any kind of judgment. So
6 I don't know where to --

7 MR. KATZ: Can I make a suggestion,
8 just trying to tie this with what David just
9 said, I mean when you do PERs you already know
10 what flips as a result of PER, you don't need
11 any work from this Subcommittee, because you
12 get that when you do the PERs right?

13 MR. HINNEFELD: Yes, we know which
14 ones change.

15 MR. KATZ: So those sort of
16 circumstances you know and when employment is
17 added or subtracted and these other -- or when
18 another cancer, that's not really interesting
19 either for this purpose, so really, here you
20 are only interested in the findings here, what
21 -- like David said, what was their dose
22 significance versus whether they flipped a

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1 case or not.

2 CHAIRMAN GRIFFON: Right, well it's
3 all -- yes, I don't disagree with that, but
4 the age of diagnosis isn't going to change, so
5 all that stuff is the same as it was in the
6 original case. But you are right, that and I
7 think quite frankly the employment status,
8 when that's -- when Scott said that, I'm
9 thinking well maybe that added on another year
10 that they hadn't originally accounted for, so
11 I think you have to tease that out as well.

12 MR. HINNEFELD: Didn't hear you
13 Scott.

14 MR. SIEBERT: It was an additional
15 two years in the very early '50s.

16 CHAIRMAN GRIFFON: Right. So that
17 may --

18 MR. FARVER: Well, my original
19 thought, when I heard this, was when we write
20 our reviews, we have our Table 1, where we
21 look at their IREP table and we sum up these
22 are the 30 to 250 keV photons, here's the

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1 dose. And then the total dose. So now you have
2 a new case, the reworked case, you'd start off
3 with the same thing. And then, where those two
4 are different, you say okay, why is that
5 photon dose different and then you go back and
6 say oh, it's page 62 of the revised TBD. Just
7 something where you identify the differences.

8 CHAIRMAN GRIFFON: Well since this
9 is our first experience with this, I think
10 that might be a good idea, especially after
11 what Stu said, which is that NIOSH is likely
12 not to be able to prioritize this. Maybe it
13 would be better if you took it with you to let
14 SC&A have a first crack at it.

15 DR. ULSH: So 160.3.

16 CHAIRMAN GRIFFON: Is now an SC&A
17 action.

18 DR. ULSH: To review the case.

19 CHAIRMAN GRIFFON: To review the
20 follow up case, revised case.

21 MR. FARVER: Provide us with all the
22 files.

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1 CHAIRMAN GRIFFON: Yes, NIOSH will
2 provide the files.

3 MR. HINNEFELD: Time to take care of
4 my buddy Doug. I don't want him to get bored.

5 MR. FARVER: Don't worry, I'm going
6 to assign this --

7 MR. HINNEFELD: Looking out for him,
8 all right.

9 CHAIRMAN GRIFFON: That should bring
10 us through 160 then.

11 MS. BEHLING: Mark.

12 CHAIRMAN GRIFFON: Yes.

13 MS. BEHLING: Excuse me, this is
14 Kathy Behling. I just wanted to add something
15 to this. It's a little bit of a side issue on
16 reviewing this case but the reason I think we
17 also may want to -- which would be a good idea
18 to review this particular case, if we go back
19 and look at findings, not only finding 160.3
20 but finding 160.1 and 160.2, I think we had
21 talked about this before. When a case is being
22 reworked, does that dose reconstructor always

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1 see all of the findings associated with the
2 specific case that we discuss during these
3 Subcommittee meetings and I think by looking
4 at this particular case, not only from the
5 aspect of the OTIB-54, but we can also then
6 look at, were the photon doses changed for
7 1952 and was that picked up, because I know
8 that at previous Subcommittee meetings we had
9 talked about how do we go about ensuring that
10 that dose reconstructor knows that there is a
11 finding on this particular case when he does
12 this rework, and we had talked about perhaps
13 putting a note in the file or something along
14 those lines.

15 Reviewing this particular case
16 would give us an opportunity to see if that is
17 happening.

18 CHAIRMAN GRIFFON: No, that's a good
19 point Kathy yes.

20 MR. FARVER: Katy, do you think Hans
21 would like to work on this?

22 CHAIRMAN GRIFFON: Okay, we are up

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1 to 161 and if it's okay with the group I am
2 going to propose that we take a 10-minute
3 break starting right now.

4 MR. KATZ: So we will start back up
5 at eleven.

6 (Whereupon, the above-entitled
7 matter went off the record at 10:47 a.m. and
8 resumed at 11:02 a.m.)

9 MR. KATZ: We are reconvening after
10 a short break, Dose Reconstruction
11 Subcommittee. Mark.

12 CHAIRMAN GRIFFON: Okay. Starting
13 back up with number 161. Still on the eighth
14 matrix if you are just joining in, or if you
15 left for a while. We are going to finish off
16 with the eighth matrix, going through just to
17 update our action items and it's probably a
18 good idea that we did this because it is
19 certainly refreshing all of our memories in
20 the room here. So 161.1 looks okay. Up to
21 161.2. I think that's a pretty clear action
22 for NIOSH. Oh wait a second, 7/23 it says this

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1 is a QA concern, SC&A agrees that the reported
2 incidents would not have affected the
3 compensation decision. NIOSH will check to
4 determine if the directive to include this in
5 the DR report predates the assessment date for
6 this case. So you have put a directive out,
7 apparently, but it might have come after this
8 case. Is that the idea?

9 MR. HINNEFELD: Yes.

10 CHAIRMAN GRIFFON: Yes, it falls in
11 the QA category and it's a minor thing but it
12 is worth looking at to see if the directive
13 predated the case. Anything more on that one?

14 162.1. This says no further action
15 but it was highlighted so I'm just going to
16 make sure. Is that no further action?

17 MEMBER MUNN: We'll chuck old claims
18 to prepaid. That predates the new Work Group.

19 CHAIRMAN GRIFFON: Yes. We were
20 asking specifically whether this requires a
21 PER review, right? That was the only action,
22 yes. That still remains, I imagine, right? I

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1 think.

2 MR. HINNEFELD: Yes, we should do
3 some of that analysis.

4 CHAIRMAN GRIFFON: So this is the
5 closing of the loop like Brant was talking
6 about seeing if it affects other cases. All
7 right. 162.2. Is this the same?

8 MEMBER MUNN: Yes, the same thing.

9 CHAIRMAN GRIFFON: Same thing, same
10 sort of thing, yes. You okay? Next one I have
11 is 162.9, and this is a more case-specific
12 case about the solubility chosen to run the
13 internal dose, I guess.

14 MR. HINNEFELD: Yes.

15 CHAIRMAN GRIFFON: Scott, if you
16 ever have the answer to these, you know, just
17 let us know if you have looked at these and
18 close them out.

19 MR. SIEBERT: Yes, I will.

20 CHAIRMAN GRIFFON: Okay.

21 MEMBER RICHARDSON: So is this one
22 that would have a large impact on dose?

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1 MR. HINNEFELD: Let me think for a
2 minute.

3 MR. SIEBERT: Oh, I actually do have
4 an answer on this one.

5 CHAIRMAN GRIFFON: I thought you
6 might, see.

7 MR. SIEBERT: Yes.

8 CHAIRMAN GRIFFON: I was giving you
9 the opening.

10 MR. SIEBERT: Thank you for the --
11 Yes, I dug on this right after last meeting
12 and originally the dose reconstructor did use
13 a Type F americium. However, the peer reviewer
14 caught it and they were instructed to remove
15 it from the claim, however one single IMBA
16 file did not get removed from the claim. It
17 should not have been submitted with it. It was
18 not used in the actual assessment, but the
19 previous version, and like I say one single
20 file kind of slipped through. So that's what
21 the issue was.

22 MR. HINNEFELD: Scott, did one --

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1 did the M result in a higher organ dose, is
2 that why it went to M?

3 MR. SIEBERT: Well no, M is the only
4 --

5 MR. HINNEFELD: It's the only one?

6 MR. SIEBERT: Solubility type we use
7 because that is the one represented by ICRP
8 68.

9 MR. HINNEFELD: Okay.

10 CHAIRMAN GRIFFON: So, it's odd that
11 they ever would have looked at F. Yes.

12 MR. SIEBERT: I agree. that's why
13 the peer reviewer said don't do that.

14 CHAIRMAN GRIFFON: Okay.

15 MEMBER MUNN: So, the whole
16 description go on there or just check
17 completed and say okay -- what are we saying?

18 CHAIRMAN GRIFFON: Well, I'm just
19 capturing what he said, that the original DR
20 used type F but it was caught on peer review
21 and type M was used for the final dose
22 reconstruction. And the question I would have

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1 is that you said it was submitted and it
2 shouldn't have been, but I would argue that it
3 should. That's that show your work question,
4 you know, if somebody was considering
5 different options, but you are saying in this
6 case, they should have been --

7 MR. HINNEFELD: They shouldn't --

8 CHAIRMAN GRIFFON: They shouldn't
9 have even looked at it, okay. Okay. All right.

10 MR. FARVER: Really, yes, all
11 references to type F should not have carried
12 over.

13 CHAIRMAN GRIFFON: Right.

14 MR. FARVER: But they did and that's
15 why it was confusing.

16 CHAIRMAN GRIFFON: But in some cases
17 where you are considering what is the --

18 MR. HINNEFELD: If you are weighing
19 two --

20 CHAIRMAN GRIFFON: What is the most
21 conservative, yes --

22 MR. HINNEFELD: Yes, then you can

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1 include both.

2 CHAIRMAN GRIFFON: Then you should
3 show it all. Okay, I just wanted to be clear,
4 yes, yes, okay. All right. So I don't think
5 there's any further action if SC&A is
6 comfortable with NIOSH's follow up, yes.

7 MR. FARVER: It sums it up there,
8 the file wasn't -- one of the files was not
9 included therefore we could not duplicate the
10 doses, which was because of what went on, what
11 Scott explained, I mean that explains it.

12 CHAIRMAN GRIFFON: Oh, okay.

13 MR. FARVER: It just, they didn't
14 remove all the type F references. He said a
15 file got through.

16 MR. KATZ: So this is a case where
17 QA worked like it should.

18 CHAIRMAN GRIFFON: Yes.

19 DR. ULSH: Well, sort of.

20 MR. KATZ: Except for the part of
21 that file, that the file wasn't used.

22 CHAIRMAN GRIFFON: Now, did you say

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1 that you weren't able to review it because the
2 file was not there for the type M or are you -
3 -

4 MR. FARVER: No, one was there and
5 not the other.

6 CHAIRMAN GRIFFON: So you never did
7 --

8 MR. FARVER: In other words --

9 CHAIRMAN GRIFFON: You didn't review
10 the type F -

11 MR. FARVER: The type F was there -

12 CHAIRMAN GRIFFON: I mean, do you
13 still need to follow up and review the type M,
14 or?

15 MR. FARVER: It's probably okay, I
16 mean I don't think that that dose was critical
17 anyway.

18 CHAIRMAN GRIFFON: It wasn't that --

19 MR. SIEBERT: Doug's question, if I
20 remember correctly, was it was never used in
21 the write-up of the assessment, why is that
22 dose there?

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1 CHAIRMAN GRIFFON: Oh, okay.

2 MR. SIEBERT: And if it should have
3 been, it should have been mentioned in the
4 dose reconstruction.

5 MR. FARVER: Yes.

6 CHAIRMAN GRIFFON: All right. So
7 I'll leave it as no further action. Okay?

8 MR. FARVER: Yes.

9 CHAIRMAN GRIFFON: Next one I have
10 is 163.4. This looks like it is still in
11 NIOSH's hands to review this, right?

12 MR. HINNEFELD: Looks that way.

13 CHAIRMAN GRIFFON: Used a different
14 model, right?

15 MR. HINNEFELD: Yes, it has to be
16 with the, essentially the surrogate, right,
17 for -- yes, whether we picked the right number
18 on the cable.

19 CHAIRMAN GRIFFON: Right, right,
20 right. So it ends up being a --

21 (Simultaneous speaking.)

22 CHAIRMAN GRIFFON: We'll follow,

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1 we'll close it out, I mean we will, you know,
2 we need to close it out and --

3 MR. HINNEFELD: I don't think it was
4 one of the ones selected on our thing there.

5 CHAIRMAN GRIFFON: Okay.

6 MR. HINNEFELD: So it would be
7 something similar to that I guess, to close it
8 out, or if we agree that these are appropriate
9 responses --

10 CHAIRMAN GRIFFON: Okay.

11 MR. HINNEFELD: That are still kind
12 of up in the air we are still --

13 CHAIRMAN GRIFFON: Right.

14 MR. HINNEFELD: Struggling with what
15 exactly is required on these quality things,
16 so.

17 CHAIRMAN GRIFFON: Okay, the next
18 one I have is 165.1. I think that should say
19 NIOSH will check to make sure the workbook,
20 not Work Group has been updated. That's my
21 typo. But I don't know if you have done this.
22 This seems like something that should be a

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1 fairly quick one. I don't know if you have had
2 the opportunity though.

3 MR. HINNEFELD: I don't think we
4 have anything to report.

5 CHAIRMAN GRIFFON: Yes, okay. So it
6 remains an action. And the next one is also
7 workbook. Yes. Definitely is. I need a peer
8 reviewer.

9 All right. I'm on 165.3. I see it
10 still in NIOSH's hands but I wanted to make
11 sure we understand the issue.

12 MR. FARVER: It's a workbook
13 calculation issue. They start off calculating
14 it like you would expect and then they got
15 through and divide by the bias of 1.6. When
16 you divide by that, you don't overestimate the
17 dose, you underestimate it.

18 MEMBER MUNN: Divide, and then
19 multiply.

20 CHAIRMAN GRIFFON: Okay. Look at
21 that. I cut and pasted that a lot of times.
22 The next one Work Group should also be

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1 workbook. I was moving fast, though.

2 MEMBER MUNN: And we know the Work
3 Group is not ready.

4 CHAIRMAN GRIFFON: It might be both
5 that need to be updated, right? So that was
6 165.4, and then 165.5. This refers to a later
7 finding. Interesting. Refers to 168.4.

8 MR. FARVER: Yes, typically for
9 medical doses, they have a 30 percent
10 uncertainty. In the specific case of 165, they
11 had a 20 percent not a 30 percent, okay, that
12 shouldn't be there. So that was the specific -
13 -

14 CHAIRMAN GRIFFON: Yes, it's QA and
15 then we had just to assure that it's not going
16 to affect the outcome, right?

17 MR. FARVER: Then it relates to a
18 later finding, 168.4.

19 CHAIRMAN GRIFFON: Was that also
20 same --

21 MR. FARVER: The same type of --

22 CHAIRMAN GRIFFON: Okay.

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1 MR. FARVER: Or similar.

2 CHAIRMAN GRIFFON: Yes. We are going
3 to get to that in a second. All right. 166.5.

4 MEMBER MUNN: So, it's still a NIOSH
5 action.

6 CHAIRMAN GRIFFON: Yes, that last
7 one. And looks like this one also. So this is
8 the -- just --

9 MEMBER MUNN: Just to make sure it
10 was done.

11 CHAIRMAN GRIFFON: Yes. Determine if
12 the X-rays were included, right?

13 MEMBER MUNN: Yes.

14 CHAIRMAN GRIFFON: The next one is
15 the IREP versus the -- the IREP is not
16 consistent with the DR, is that what you are
17 saying?

18 MR. HINNEFELD: Tab W is the
19 specific workbook.

20 CHAIRMAN GRIFFON: The tool, yes. So
21 there's an inconsistency between the two and
22 the big thing is to check to make sure --

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1 MR. HINNEFELD: Right.

2 CHAIRMAN GRIFFON: It's not going to
3 make a major difference but otherwise it's a
4 QA thing. Then I'm down to 167.3, which is a
5 long response there, but NIOSH will review
6 further based on specifics of the job
7 information and how it is outlined in TIB-7.
8 TIB-7 is?

9 MR. FARVER: Shallow dose.

10 CHAIRMAN GRIFFON: Shallow dose,
11 yes.

12 MR. FARVER: I believe.

13 MR. SIEBERT: It's assignment of
14 neutrons at Savannah River Site.

15 CHAIRMAN GRIFFON: Oh, okay.

16 MEMBER MUNN: Carries over.

17 CHAIRMAN GRIFFON: Yes. Still a
18 NIOSH action. Okay, 167.5.

19 MR. FARVER: Okay, that's our
20 action. Specifically, it has to do with the Y-
21 12 coworker dose and the CADW different
22 versions. Version 4.03 I believe was used

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1 originally to assess this case. It came up
2 with one number. When we did our DR review,
3 that CADW had been revised to a different
4 version. So when our reviewer went in and
5 looked at the numbers and plugged into the
6 newer version, he came out with a slightly
7 higher number. The version that he reviewed,
8 it was 6.0, I didn't have access to it, I have
9 access to 5.3 and 6.02 and if you put it in as
10 a Y-12 coworker dose, in other words you
11 select, up to the top, Y-12 as the site for
12 the default, and you select use coworker
13 values, and it will add the correct intake,
14 that will give you one value, the value that
15 was contained in the DR report through all the
16 versions of the CADW that I could find.

17 However if you go and put in the
18 intake of 7,054.4 dpm per day, and you put in
19 a standard deviation of 3.77, just like it
20 says, and this comes out of Table 5.1 of OTIB-
21 29, which is the Y-12 coworker data, and if
22 you put in those values from that table

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1 manually, you come up with a slightly higher
2 dose in all versions. Why?

3 MEMBER POSTON: What's slightly?

4 CHAIRMAN GRIFFON: I think he said
5 14 percent higher.

6 MR. FARVER: Fourteen percent
7 difference. Now I don't know why because you
8 are using the same standard deviation. You are
9 using the same intake value, the same material
10 to class -

11 MR. HINNEFELD: What was the table
12 in --

13 MR. FARVER: Oh, 5-1.

14 MR. HINNEFELD: 5-1 in OTIB-29?

15 MR. FARVER: Yes. So that was
16 perplexing. I could not resolve that.

17 MR. HINNEFELD: Did you find you
18 runs showing the difference?

19 MR. FARVER: I did, but it's not
20 conclusive from the run because the reviewer
21 ran the version, he put in a standard
22 deviation of 3.0, and I figure that's got to

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1 be the difference. So, it wasn't, because I
2 went in and ran it with 3.77 and it was still
3 higher when you entered the intake manually as
4 opposed to selecting the Y-12 coworker data,
5 even though the intake is the same, the type
6 is the same, the standard deviation is the
7 same, the type of distribution is the same,
8 log-normal. So I don't know what's going on
9 behind there that has that little difference.

10 CHAIRMAN GRIFFON: Right.

11 MR. FARVER: That was all.

12 CHAIRMAN GRIFFON: That's it. But
13 that could impact -- that's one of those
14 global impacting things, yes, essentially.

15 MR. FARVER: You would expect those
16 two runs to be the same but it's not dependent
17 on version apparently, it's just how you enter
18 the data.

19 CHAIRMAN GRIFFON: Coworker or
20 manual, right?

21 MR. HINNEFELD: Okay now just so I'm
22 straight here, and I'm not very familiar with

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1 CADW, said that one of the options on CADW is
2 to choose Y-12 coworker.

3 MR. FARVER: Yes.

4 MR. HINNEFELD: And it goes in
5 everything automatically --

6 MR. FARVER: And it enters

7 MR. HINNEFELD: Gives you dose
8 numbers.

9 MR. FARVER: Yes.

10 MR. HINNEFELD: Okay. Another option
11 on CADW still --

12 MR. FARVER: Is you can enter the
13 intake manually.

14 MR. HINNEFELD: Intake manually so
15 many picocuries per day.

16 MR. FARVER: Yes.

17 MR. HINNEFELD: Okay.

18 MR. FARVER: And you can set the
19 distribution type and you can set the standard
20 deviation to whatever you want.

21 MR. HINNEFELD: And so you set those
22 to be the same as what the coworker

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1 distribution tells you if it is true --

2 MR. FARVER: Yes.

3 MR. HINNEFELD: And it comes out a
4 little different.

5 MR. SIEBERT: Hey Doug, I assume --
6 this is Scott -- I assume that you ran it both
7 ways and you are saying the difference is
8 still there?

9 MR. FARVER: Yes.

10 MR. SIEBERT: Okay. It would be very
11 helpful to us if we could have your runs for
12 the comparison because we can compare it to
13 our own as well and see if there is any other
14 issue that we are not catching.

15 MR. FARVER: Okay. I just thought
16 you could do the same thing and try it, enter
17 it manually or enter it through Y-12 coworker.

18 MR. SIEBERT: Yes, I'm just trying
19 to head off the fact of waiting until the next
20 meeting if ours happen to come out identical.

21 MEMBER MUNN: Actually the action
22 item was for SC&A to attach the kind of runs

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1 that they completed.

2 MR. FARVER: Well, and when I did
3 find them they really didn't show what I --

4 MEMBER MUNN: What you wanted to
5 show.

6 MR. FARVER: Yes, because I thought
7 the error was in the standard deviation --

8 MEMBER MUNN: Okay.

9 MR. FARVER: but it wasn't.

10 MEMBER MUNN: No.

11 MR. FARVER: So then I kept trying
12 everything.

13 CHAIRMAN GRIFFON: Can you just
14 provide those? Yes.

15 MR. FARVER: Yes, I can forward
16 those to Scott.

17 CHAIRMAN GRIFFON: Okay.

18 MR. SIEBERT: Thank you.

19 MR. FARVER: I just thought it was
20 interesting that it came down to just how you
21 entered the data.

22 CHAIRMAN GRIFFON: Okay. All right.

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1 So that remains an SC&A action, well it's kind
2 of a combined, once you provide him the --
3 yes. NIOSH will review those.

4 MR. HINNEFELD: Right.

5 CHAIRMAN GRIFFON: Okay. Yes, I'll
6 put that in there too, yes.

7 DR. MAURO: I'm sure we had this
8 conversation once before but I'll do it again
9 anyway. The whole idea of these tools and
10 workbooks, I know one time when we reviewed
11 procedures, one of the things we did review
12 and were going to report on, it seems like for
13 all intents and purposes, the procedures are
14 no longer the -- where the action is. Where
15 the action is, is the Work Group, is the
16 workbook. And now the procedures always have a
17 pedigree, I mean they have a written document,
18 they are loaded, they are QC, they have a
19 pedigree. The workbooks seem to be something
20 that may or may not have a pedigree. Am I
21 wrong?

22 MR. HINNEFELD: In what sense?

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1 DR. MAURO: In the sense that it
2 goes through the same formal QA, QC, because
3 if that becomes effectively your procedure,
4 it's sort of like, and that's fine, but that
5 means it has to be -- have the same
6 reliability and go through the same -- because
7 that becomes your -- I noticed more and more
8 that when we do our audits, we go right
9 through the workbook --

10 MR. HINNEFELD: Yes.

11 DR. MAURO: We see what the inputs
12 are, we see that they did -- and so in effect
13 we were reviewing your work as against you
14 workbook, as opposed to, well in your case you
15 did both, you looked at the workbook and then
16 you looked at the procedure and you did it by
17 hand and -- I guess I'm just raising a
18 question that, I know we had this conversation
19 before, but if where all the action is, is the
20 workbook and the tools, and it's turning the
21 crank, there has to be some level of assurance
22 that the quality and the reliability of those

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1 workbooks are equivalent to the same treatment
2 you give to procedures.

3 MR. HINNEFELD: Well, there is a
4 quality process on the workbook.

5 DR. MAURO: On the workbooks
6 themselves.

7 MR. HINNEFELD: Whether it is
8 exactly the same process or not, I guess I
9 wouldn't be prepared to say. For instance we
10 sign off on TIBs that the contractor prepares.
11 We don't necessarily sign off on workbooks, it
12 is not clear to me if we sign off on the
13 testing that they do for the workbooks, so it
14 would be something that we should take down to
15 -- I can make this special in something
16 specific to a particular finding or something
17 that we should evaluate that from our
18 standpoint in terms of approvals of workbooks
19 and those kinds of things.

20 CHAIRMAN GRIFFON: Yes, I guess I
21 was just kind of reflecting on what John said.
22 I think, I mean the way I have always thought

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1 of it was that the procedures review was
2 looking at the written procedures more than
3 the workbooks, but then this process ends up
4 diving into the workbooks because we are doing
5 case by case so, you know, we are -- when we
6 catch things that way we are, you know --

7 DR. MAURO: In a funny sort of way
8 the conversation you just had really doesn't
9 go toward this Work Group, I mean the
10 Subcommittee, it really goes to the procedure
11 --

12 CHAIRMAN GRIFFON: Right.

13 DR. MAURO: Because in effect, this
14 is a procedure, and you are using this tool as
15 a procedure like you would use any procedure
16 so it's really adjunct, whether it's site
17 specific or generic, it's an adjunct to a
18 procedure that has a great deal of importance
19 so that's what is being used.

20 CHAIRMAN GRIFFON: Well, that's
21 something I've been --

22 DR. MAURO: I know.

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1 CHAIRMAN GRIFFON: Yes --

2 DR. MAURO: I --

3 CHAIRMAN GRIFFON: That is something
4 I have been for ages -- which is that these
5 guidelines and things like that, or the
6 workbook is where the action is as opposed to
7 the --

8 DR. MAURO: And we did put a work
9 product out several years ago where we did
10 look at the generation of tools that were out
11 there as adjuncts to the OTIBs.

12 CHAIRMAN GRIFFON: Yes.

13 DR. MAURO: And we put a report out
14 so we never really got to it and also I recall
15 that it was problematic. I'll tell you what
16 happened then. It's all coming back now. You
17 know, once we are given an authority to do
18 some work and we go ahead and do it, all
19 right, let's say it takes us some time to do
20 it. By the time we are done, those workbooks
21 evolved. You heard the rev numbers. Rev
22 numbers doo doo doo, and all of a sudden we

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1 are left, wait a minute, that doesn't count
2 anymore, so where we ended up was we went
3 through and put a product out which was really
4 outdated by the time it went out and couldn't
5 be checked or used or have any value. So we
6 really -- and it was -- I wouldn't say it's a
7 waste of time but what it did reveal is that,
8 you know, if something is undergoing
9 continuous evolution and improvements and
10 refinements, we can't just step in and look at
11 it. By the time we are done, it's meaningless.
12 So we actually left that and Kathy, I think
13 you know better. Am I characterizing this
14 correctly, if you are listening in?

15 MS. BEHLING. Yes, I am. John, you
16 are correct, yes, keep going. That's exactly
17 what we did.

18 DR. MAURO: Now, yes, okay, and I
19 don't know, where does that leave us? It means
20 that we are in a situation, unfortunately,
21 where the procedures are getting a great deal
22 of attention, as Wanda could attest to, the

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1 workbooks aren't. In a funny sort of way they
2 really can't because they are undergoing
3 evolution. Some of the changes may be
4 substantive, some may just be convenience, I'm
5 not sure, but --

6 MS. BEHLING: Although -- oh excuse
7 me John.

8 DR. MAURO: Yes. Sure.

9 MS. BEHLING: This is Kathy.
10 Although when we were reviewing the
11 procedures, we also looked at the workbook at
12 that time --

13 DR. MAURO: At that time.

14 MS. BEHLING: We just didn't --
15 rather than doing a separate report on looking
16 at all of the workbooks, we decided while we
17 were reviewing the procedures and the OTIBs,
18 that we also look at the workbooks that --

19 DR. MAURO: And I remember that task
20 and it was very early in this process. But now
21 I'm hearing conversations regarding workbooks
22 and you know, we just heard these revisions

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1 and these changes and it's almost like I
2 wanted to say, maybe it's time to have this
3 conversation again.

4 MR. KATZ: But you're actually
5 getting at that -- we discussed earlier a case
6 where the workbook reflected later work than
7 the TBD and the resolution was elaborate the
8 TBD to reflect what is new in the workbook. So
9 if you're getting at that --

10 CHAIRMAN GRIFFON: And the only
11 other way we would get at it I think is to try
12 to select cases that are newer cases that are
13 more recent so we are getting more recent
14 revisions. But you are right. We are always
15 going to be a few steps behind perhaps, but we
16 will have to look at the way it's designed. We
17 have to look at things at a point in time,
18 right?

19 Okay, I am going to move on unless
20 there's any other insights on that. 168.4, is
21 that where we left off?

22 This refers back to 165.5 Doug,

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1 like you said, is that -

2 MR. FARVER: Yes.

3 CHAIRMAN GRIFFON: So that's related
4 to that medical dose question.

5 MR. FARVER: Yes, this is another
6 one where they do not multiply by the 30
7 percent or add the 30 percent or our finding
8 was rung out of a Technical Basis Document
9 that, for actual dose calculations,
10 reconstructors should assume the normal
11 distribution in an uncertainty of plus or
12 minus 30 percent. Reconstructors should only
13 use the positive uncertainty and multiply the
14 doses by a factor of 1.3 to include
15 uncertainty. In this case they did do that so
16 that's why we wrote the finding.

17 CHAIRMAN GRIFFON: And it the case
18 that NIOSH agrees but the one thing it doesn't
19 say there, it says you're going to look at the
20 section of the TBD but it doesn't say whether
21 this could have potentially affected the
22 outcome of the case.

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1 MR. FARVER: Well, initially it came
2 back and said it is a should statement and we
3 don't have to do and --

4 CHAIRMAN GRIFFON: Well, I'm looking
5 at the --

6 MR. SIEBERT: Well, that is -- this
7 is Scott. That's true, the way the TBD should
8 have been written was that you have the 30
9 percent normal distribution, which is your
10 best estimate, or you can use as an
11 overestimating assumption a factor of 1.3
12 which is just taking into account the high end
13 of the uncertainty. It's just one sentence was
14 written a little obviously unclearly so that's
15 what needed to be updated in the TBD. It would
16 have been in conflict with other direction we
17 have on medical X-ray doses so we all know
18 that you don't apply both of those. It's just
19 the TBD was not written as clearly as it
20 should have been.

21 CHAIRMAN GRIFFON: So you are saying
22 that the dose for this case doesn't have to be

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1 adjusted at all -

2 MR. SIEBERT: Correct.

3 CHAIRMAN GRIFFON: It's just TBD to
4 be reworded to be consistent with your other -
5 - with your practices. Okay.

6 MR. SIEBERT: Correct.

7 MR. FARVER: Consistent with
8 procedure.

9 CHAIRMAN GRIFFON: Right.

10 MR. FARVER: Was it 61?

11 DR. MAURO: Sixty -- oh for X-rays.
12 I guess what I heard is I recalled checking
13 and sometimes you used the normal plus or
14 minus 30 percent, which is the standard, or
15 you take the dose and you multiply by 1.3.
16 There was an option. Wasn't that an option?

17 MR. FARVER: I think it is in the
18 procedure.

19 MR. SIEBERT: Earlier on in the
20 project we would use that option. We have
21 determined that basically we are just going to
22 use normal. Let's use them all as a best

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1 estimate because it doesn't really save us any
2 time either way.

3 DR. MAURO: And what happened here?

4 MR. SIEBERT: This one used the best
5 estimate method of normal distribution, 30
6 percent, which is correct. It did not deal
7 with a factor of 1.3.

8 MR. FARVER: It had different
9 wording in the Technical Basis.

10 MR. SIEBERT: Correct.

11 DR. MAURO: So it did arrive.

12 MR. FARVER: Correct.

13 DR. MAURO: It did arrive, okay.

14 MR. FARVER: It's just the
15 documentation was -- not consistent with what
16 they did.

17 DR. ULSH: What was the other
18 document that it's supposed to be consistent
19 with? Procedure something?

20 MR. FARVER: It was 60 or 61.

21 DR. MAURO: There's two X-ray
22 procedures. One is OTIB-6 and the other one is

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1 either 60 or 61.

2 MR. FARVER: Okay. I'm not sure
3 which one it was not consistent with.

4 MR. HINNEFELD: The one on medical
5 X-rays.

6 MR. FARVER: They all blend
7 together.

8 CHAIRMAN GRIFFON: All right. 168.5.
9 This was you action, Doug.

10 MR. FARVER: Oh, okay. Let me see
11 what it is. I looked at this. Okay. We'll come
12 back to this in a couple of minutes.

13 CHAIRMAN GRIFFON: Want to come back
14 after -- I'll put it down, we can come back to
15 it.

16 MR. FARVER: We are going to find
17 the file.

18 CHAIRMAN GRIFFON: All right.

19 MR. FARVER: I looked this up and I
20 did something and I just have to find where
21 it's at.

22 CHAIRMAN GRIFFON: Okay. I'll move

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1 ahead and we can come back to that one. 168.7,
2 NIOSH will investigate further. Usually when I
3 say investigate it's about worker placement,
4 right? Yes. It said T building, potential
5 exposure in the T building.

6 So it's a question of assigning
7 plutonium dose for someone that was in the T
8 building. Is that sort of the -- I think
9 that's the gist of it.

10 MR. HINNEFELD: Yes. First you had a
11 termination bioassay.

12 CHAIRMAN GRIFFON: Right. So I
13 guess it's really a question of where they
14 were working.

15 MR. HINNEFELD: Were they plutonium
16 exposed or not?

17 CHAIRMAN GRIFFON: Right, right,
18 right, yes, we don't need to get into the
19 specifics. 169.1.

20 MR. SIEBERT: I believe this is the
21 same 30 percent --

22 CHAIRMAN GRIFFON: I see it. I see

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1 it at the bottom. Okay. So that's the same
2 question of correcting that --

3 MR. SIEBERT: Yes.

4 CHAIRMAN GRIFFON: TIB-60 or
5 procedure 60, 61, whatever it is -- not
6 correcting that but correcting the TBD to be
7 consistent with that, right?

8 MR. SIEBERT: And it's procedure 61.

9 DR. MAURO: It is 61. Okay.

10 CHAIRMAN GRIFFON: There you go
11 Brant. Okay. I am down to 170.2. Is this a
12 worker location question again? It's about the
13 same neutron issues.

14 It's a question I think of whether
15 to assign the neutron exposures, is that
16 correct, based on job?

17 So you assign neutrons over a
18 certain time period but not over others and
19 it's unclear to SC&A, yes. That remains a
20 NIOSH action, correct?

21 MEMBER MUNN: Yes.

22 CHAIRMAN GRIFFON: Okay. Down to

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1 171.4.

2 MR. HINNEFELD: Yes, it looks like
3 171, two or three, it doesn't look like we've
4 submitted -

5 CHAIRMAN GRIFFON: Oh, they're
6 blank, I'm sorry, yes. Thanks for catching
7 that. 71.2 and 3 have no responses yet so and
8 171.4 looks like the assignment question again
9 I think. Oh no, maybe not. Sorry. This is an
10 internal coworker question, internal coworker
11 model question.

12 I think this is a question of which
13 model was selected over what time periods,
14 right Stu? I think sometimes you used
15 environmental --

16 MR. HINNEFELD: Yes, well this looks
17 to me like an exposed versus non-exposed
18 question, where, you know, you say the -- at
19 some period of time -- yes, they used
20 environmentally and weren't exposed so you
21 used environmental and they're saying we're
22 not so sure based on the guidance you have in

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1 your Technical Documents. It looks like this
2 case should have been considered exposed and
3 I'm guessing we're saying we're going to
4 investigate this further.

5 CHAIRMAN GRIFFON: Yes. And I like
6 171.5. I'm laughing because I'm not sure what
7 the heck, I think I forgot what organ it was
8 so I had a placeholder in there.

9 MEMBER MUNN: Well, whatever it is,
10 it is not a question of --

11 CHAIRMAN GRIFFON: Something is
12 organ, not solubility, solubility tests were
13 not evaluated. It's not so clear to me what is
14 meant by that.

15 MR. FARVER: If you look in the
16 NIOSH response, they refer to a specific file
17 and they are saying the xxx is the type of
18 organ -- it's the type of -- yes, it's the
19 type of organ and the core concern is the
20 solubility.

21 CHAIRMAN GRIFFON: Oh, okay.

22 MR. FARVER: So --

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1 MR. SIEBERT: I'm going to see if I
2 can pull up that file real quick.

3 CHAIRMAN GRIFFON: So you concern,
4 Doug, was that they didn't look at the
5 different solubilities to see which was going
6 to be the worst case, or --

7 MR. FARVER: Yes.

8 CHAIRMAN GRIFFON: Okay. I'll just
9 jot that down. If Scott finds something on it,
10 we can come back.

11 171.6.

12 MEMBER MUNN: NIOSH follow up to
13 find out how close one building was to where
14 the incident occurred.

15 CHAIRMAN GRIFFON: Oh, yes, this is
16 the incident, right?

17 MEMBER MUNN: Yes.

18 MR. SIEBERT: I apologize, it's
19 going to take me a little while to get to that
20 file because we have reworked the case since
21 then so I can't track it down right now.

22 MR. HINNEFELD: Okay.

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1 CHAIRMAN GRIFFON: That's 171, okay.

2 DR. ULSH: I might have this totally
3 wrong, but 171.6 has to do with how close two
4 buildings were to each other. Is that the one
5 that we sent out information on that --

6 MR. FARVER: That's correct, yes.

7 DR. ULSH: Yes. I don't know if that
8 changes the status or not, but --

9 MR. FARVER: But, yes, we do have an
10 --

11 (Simultaneous speaking.)

12 CHAIRMAN GRIFFON: So NIOSH did send
13 a response.

14 MR. FARVER: 3019 in relation to
15 3022.

16 CHAIRMAN GRIFFON: Right.

17 MR. FARVER: And I think they're in
18 pretty close.

19 CHAIRMAN GRIFFON: Incident at 3019,
20 right, right.

21 MR. FARVER: Because 3022 is no
22 longer around.

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1 DR. ULSH: So the way it reads right
2 now is NIOSH will follow up to determine the
3 location of the building 3022 in proximity to
4 3019. It sounds like Dr. Poston has already
5 sent out information like that. So is that
6 status still appropriate or do we have some
7 other action item or --

8 CHAIRMAN GRIFFON: Did you look at -

9 MR. HINNEFELD: Well, our additional
10 action is to then interpret from that whether
11 we agree with the finding or not --

12 CHAIRMAN GRIFFON: Okay.

13 MR. HINNEFELD: Whether we agree
14 with the finding or --

15 CHAIRMAN GRIFFON: That was sort of
16 a sub-action.

17 MR. HINNEFELD: That was the first
18 action.

19 CHAIRMAN GRIFFON: Now that you know
20 the proximity, does it impact the -- yes. So
21 this person is saying they were in 3022 during
22 this incident but that wasn't --

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1 MR. HINNEFELD: Yes.

2 CHAIRMAN GRIFFON: They were in 3022
3 during the incident.

4 MR. HINNEFELD: Yes.

5 CHAIRMAN GRIFFON: Right. But that
6 wasn't considered in their dose reconstruction
7 so now you should look at that. Yes.

8 Okay. Now we go to a new color
9 here. This is Tab 171. The case is reevaluated
10 and remains non-compensable. No further
11 action. Just going to get rid of that blue on
12 there. Anyway.

13 173.2. So NIOSH agreed with the
14 original finding, SC&A accepts the response
15 and then the question is did it affect the
16 case. In the same with 173.3.

17 MR. SIEBERT: I'm checking.

18 CHAIRMAN GRIFFON: Okay. Let's see
19 173.5 I have a more open-ended NIOSH follow
20 up. Oh no, wait -- yes. Kind of a NIOSH will
21 follow up on SC&A's response. So this is a
22 justification for not assigning the ambient

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1 doses.

2 MR. SIEBERT: We do not have -- we
3 were never returned this claim through rework
4 so we would have to do all this offline as we
5 have done in the past and this one hasn't been
6 done yet so I'll put that down on the list to
7 do.

8 CHAIRMAN GRIFFON: Okay. So we're up
9 on 174.1 unless Doug, do you have anything
10 back on those others ones that I have on hold
11 over here?

12 MR. FARVER: It was just that one --

13 CHAIRMAN GRIFFON: 168.5, is that
14 the one?

15 MR. FARVER: Yes. I cannot find a --
16 we'll say a spreadsheet in the files, in the
17 worker's files, that calculates the doses that
18 are in the IREP table. In other words the IREP
19 table will give you one dose that we reference
20 in our document, but I cannot find any
21 supporting calculations how they came up with
22 that number. So I can't tell if it's a

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1 workbook error or not because I can't tell how
2 they came up with that number. Now, I believe
3 we suspected they used a different dose
4 conversion factor and that's what we put in
5 our finding. We say we believe they did it
6 this way using this dose conversion factor and
7 came up with the number in that manner. Let me
8 get you some specifics real quick. Has to do
9 with -- oh, whether they used the dose
10 conversion factor for ambient dose equivalent
11 or the dose conversion factor for deep dose
12 equivalent.

13 CHAIRMAN GRIFFON: Right.

14 MR. FARVER: That's what it was. So
15 although we can't find a worksheet that shows
16 how they calculated it, if you go through the
17 process and put in the value for deep dose
18 equivalent you come up with their value that's
19 in their IREP table. I could not find a
20 spreadsheet in their files that showed how the
21 calculation occurs.

22 CHAIRMAN GRIFFON: So this -- when

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1 this says -- when the NIOSH response
2 originally says here DCF should have been used
3 rather than SC&A's suggestion of H10 organ
4 dose DCF. Was that your suggestion or was that
5 your feeling that that was what they had used?

6 If you read the original response, I'm a
7 little confused. My understanding of what you
8 are saying is that when you have plugged in
9 the H10 organ dose DCFs, you got the number
10 that they --

11 MR. FARVER: Yes.

12 CHAIRMAN GRIFFON: reported.

13 MR. FARVER: Correct.

14 CHAIRMAN GRIFFON: But that wasn't
15 your suggestion to use that.

16 MR. FARVER: No, that's what we
17 believe they did.

18 CHAIRMAN GRIFFON: They did. Right.
19 But you are thinking that was wrong to do
20 that. It should have been the ambient.

21 MR. FARVER: It should have been the
22 ambient dose conversion factor.

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1 CHAIRMAN GRIFFON: Right. So that's
2 misstated a little bit, I think. You see what
3 I'm saying, in that first line of the
4 response? Rather than SC&A's belief that that
5 was it. In other words you weren't suggesting
6 to use that. You believe that's what they did,
7 right?

8 MR. FARVER: I believe that's what
9 they did because that's how -- you come up
10 with the same value if you do it that way and
11 I do not have any documentation supporting
12 their calculations otherwise. In other words
13 we don't have the calculations on how they did
14 it. I couldn't find them.

15 MR. HINNEFELD: So here, the issue
16 here appears to be that our response
17 mischaracterizes the finding.

18 CHAIRMAN GRIFFON: Yes, I think so.
19 Yes. And we didn't catch that earlier, but --

20 DR. MAURO: At the risk of showing
21 my ignorance, what's the difference between
22 Hp(10) and ambient?

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1 MR. HINNEFELD: Well, it's the
2 ambient I believe is exposure. It depends on
3 how you measure. Hp(10) is absorbed dose of 10
4 and --

5 DR. MAURO: I never understood that.

6 MR. HINNEFELD: What we said is
7 exposure to organ dose conversion. But there
8 is an ambient dose conversion.

9 DR. MAURO: Yes, I know there's a --

10 MR. HINNEFELD: Yes, that one
11 confuses me all the time too. I have to get
12 Tim to explain it to me again.

13 DR. MAURO: Okay, so you're in the
14 same boat I am.

15 MR. HINNEFELD: It's wrapped up I
16 think in some ICR units --

17 DR. MAURO: I think it is too. I
18 have run across it and I think -- is Hans on
19 the line?

20 CHAIRMAN GRIFFON: And from a value
21 --

22 MR. HINNEFELD: Don't ask Hans these

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1 questions or we won't get to lunch.

2 (Laughter.)

3 CHAIRMAN GRIFFON: From a value
4 standpoint --

5 MR. HINNEFELD: I mean we found out
6 the difference in dose conversion factors on
7 the ambient dose, I mean this is probably
8 almost nothing.

9 CHAIRMAN GRIFFON: Right. Yes.

10 MR. HINNEFELD: You know, in terms
11 of quantitative numbers.

12 CHAIRMAN GRIFFON: That's what I was
13 pointing out, yes. I'm not sure how to bring
14 this to a closure though.

15 MR. HINNEFELD: Let's see if we
16 can't reword our response somehow. This goes
17 on and on and on and I don't know --

18 CHAIRMAN GRIFFON: Yes, I mean, if
19 you agree that is what it has done, but it
20 impacts the case very minimally, then we can
21 close it --

22 MR. HINNEFELD: I think we can just

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1 stop it there, you know, correct the
2 characterization of the response and stop.

3 CHAIRMAN GRIFFON: Yes. Okay.

4 MR. FARVER: Yes, it just goes back
5 to how the ambient doses were calculated.

6 DR. ULSH: Makes sense. 168.5. Mark,
7 I kind of lost track there before we went to
8 that issue. On 171.6 I've got that Dr. Poston
9 sent out information and NIOSH has to consider
10 that new information. That's the status of
11 that one.

12 MR. HINNEFELD: About proximity of
13 building -- just about proximity of buildings
14 --

15 CHAIRMAN GRIFFON: Yes. About
16 proximity of buildings. I said --

17 MR. HINNEFELD: Trying to remember
18 what it --

19 CHAIRMAN GRIFFON: That's what I
20 had.

21 MR. HINNEFELD: I mean we can dig
22 this down I guess, we'll have to look at the

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1 notes with the matrix in front of us.

2 CHAIRMAN GRIFFON: And then I said
3 NIOSH will consider the impact on the internal
4 dose. I think that was the question really,
5 right?

6 MR. FARVER: From the accident?

7 MR. HINNEFELD: From the accident.

8 DR. ULSH: Okay. Then 173.2. I have
9 that remains a NIOSH action item, right?

10 CHAIRMAN GRIFFON: Yes.

11 DR. ULSH: Same with 173.3 and .5?

12 CHAIRMAN GRIFFON: They are both the
13 same, yes, all three of those.

14 MR. HINNEFELD: Well, I would
15 characterize .5 a little differently.

16 CHAIRMAN GRIFFON: All right.

17 MR. HINNEFELD: Two and three are a
18 specific question -

19 CHAIRMAN GRIFFON: Yes, two and
20 three are --

21 MR. HINNEFELD: Just change the
22 compensability of the claim. That is a

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1 specific question. Five's action is a little
2 different. It says we will review our
3 response. It is our action but it's a somewhat
4 different action.

5 CHAIRMAN GRIFFON: Yes.

6 MR. HINNEFELD: So if you are just
7 writing remains a NIOSH action --

8 CHAIRMAN GRIFFON: I'm sorry. Yes,
9 yes, yes.

10 MR. HINNEFELD: If you are just
11 writing remains a NIOSH action, then we will
12 refer back to this, then you can just write
13 remains a NIOSH action.

14 CHAIRMAN GRIFFON: Well, what I'm
15 doing on the matrices when I don't change
16 anything, I'm leaving them as the 723 action
17 highlighted.

18 MR. HINNEFELD: Yes. Yes.

19 CHAIRMAN GRIFFON: So I'm not
20 changing the words at all.

21 MR. HINNEFELD: Perfect.

22 CHAIRMAN GRIFFON: Yes, so this --

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1 those first two, like Stu said, you are really
2 checking just to see -- you are in agreement
3 with the finding, you are just going to check
4 and see if it affected the compensability. The
5 other one is --

6 MR. HINNEFELD: The other one is
7 something about our response, checking if our
8 response really speaks to the question or
9 something.

10 CHAIRMAN GRIFFON: And NIOSH will
11 review the SC&A response I think, right? Oh
12 no, review your own response.

13 MR. HINNEFELD: I think it's our own
14 response --

15 CHAIRMAN GRIFFON: Yes.

16 MR. HINNEFELD: I'm not sure we
17 understood our own response, how it related to
18 the finding.

19 CHAIRMAN GRIFFON: Right, review,
20 I'll put that, review the original NIOSH
21 response. Review their own response.

22 DR. ULSH: Now I have written down

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1 174.1 but I don't have anything after that.

2 CHAIRMAN GRIFFON: No, we just got
3 there.

4 DR. ULSH: Okay. Good.

5 CHAIRMAN GRIFFON: That's where I
6 left off I think. Okay.

7 MEMBER MUNN: One question is clear.

8 MR. HINNEFELD: It remains our
9 action. You can figure out what it is from
10 reading, I mean as long as --

11 CHAIRMAN GRIFFON: Yes.

12 MR. HINNEFELD: We are just going to
13 --

14 CHAIRMAN GRIFFON: That's pretty
15 clear.

16 MR. HINNEFELD: Going to pull out
17 the matrix along with our action list, we'll
18 be able to figure out what our action is. We
19 don't have to be so complete, I'm sorry --

20 CHAIRMAN GRIFFON: That one's pretty
21 clear, I think.

22 MR. HINNEFELD: I get cross when I

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1 get stressed.

2 MEMBER MUNN: Oh, let's not do that.

3 MR. HINNEFELD: I'm stressed by
4 getting ready for the Board meeting. Not quite
5 as bad as Laura yet. It might come to that.

6 MEMBER MUNN: In time.

7 CHAIRMAN GRIFFON: All right, I'm
8 just -- well I'm not sure when to cut this
9 off, but we are almost through this matrix but
10 I've said that before. 175.1. This is SC&A. Oh
11 well actually I'm not sure if it's been
12 reworked yet so -- no this is the one that we
13 said you review the rework.

14 MR. FARVER: To review the rework.

15 CHAIRMAN GRIFFON: Yes.

16 MR. FARVER: I don't have the
17 rework.

18 CHAIRMAN GRIFFON: Okay. So NIOSH
19 will have to provide the reworked case, right?
20 So this is two that we are going to have kind
21 of these reworked cases to see how this
22 evolves.

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1 MR. FARVER: Well I mentioned that
2 earlier, that we have this later on coming up
3 and --

4 CHAIRMAN GRIFFON: Was this just to
5 give me a -- just to get my bearings on this -
6 - was it a close case, was it a close 50th
7 percentile? Scott, do you have that
8 information on 175?

9 MR. SIEBERT: I don't have it
10 immediately available.

11 CHAIRMAN GRIFFON: That's all right.

12 MS. BEHLING: It's 27 percent.

13 CHAIRMAN GRIFFON: Twenty-seven
14 percent.

15 MEMBER MUNN: Not a cliffhanger in
16 any case.

17 CHAIRMAN GRIFFON: Right. Well I
18 think we still want to follow up on the case
19 regarding the findings, right, to see if they
20 were -- yes.

21 MR. FARVER: Oh this is where
22 additional records came in afterwards --

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1 CHAIRMAN GRIFFON: Oh, okay.

2 MR. FARVER: after the DR had been
3 completed.

4 CHAIRMAN GRIFFON: Okay.

5 MR. FARVER: I believe.

6 MR. SIEBERT: This is finding --
7 claim 175 or findings for 175, right?

8 CHAIRMAN GRIFFON: Yes.

9 MR. SIEBERT: The rework pulled it
10 down to 15 percent PoC so --

11 MR. HINNEFELD: So the rework is
12 done?

13 MR. SIEBERT: Yes.

14 MR. HINNEFELD: Doug, you can just
15 pull everything off NOCTS.

16 MR. FARVER: Okay.

17 MR. HINNEFELD: Do you have the
18 claim tracking number? We can provide you, if
19 you don't have it, we can provide it, once you
20 have it you can find everything about the
21 rework in NOCTS.

22 MR. FARVER: Okay. I'm pretty sure I

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1 don't have that.

2 MR. HINNEFELD: Okay. Okay. So we
3 need to give him a copy.

4 CHAIRMAN GRIFFON: All right, and
5 this may answer these other ones too, I'm not
6 sure. Yes. I think these are going to carry
7 through for 175.2 at least and 175.3. Bear
8 with me. I'm just going to copy and paste my -
9 - okay. So, 176.1 has nothing. I'm up to, oh
10 the attachments, ah, the attachments. John,
11 this is where you come in.

12 DR. MAURO: Yes, we went through all
13 those.

14 CHAIRMAN GRIFFON: Yes.

15 DR. MAURO: I gave my little story
16 on each one and I think we left it at that.

17 CHAIRMAN GRIFFON: Let's look at
18 finding number one. Let's see. Yes, these look
19 like they -- do you have a separate document
20 tracking these findings?

21 DR. MAURO: Yes -- well, on the
22 tracking system?

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1 CHAIRMAN GRIFFON: Here's my
2 suggestion. Why don't we take up the
3 attachments after lunch, right?

4 MEMBER MUNN: Excellent suggestion.

5 CHAIRMAN GRIFFON: Attachment one is
6 Bridgeport Brass. I know we treated -- I know
7 SC&A provided a separate document when we were
8 talking about them but I thought I tracked the
9 findings in here. I think the reason that
10 Bridgeport has a 3/22 date in the matrix is
11 because we had done that in the meeting before
12 and then we picked up on the next one in July
13 --

14 DR. MAURO: We did, we actually went
15 through --

16 CHAIRMAN GRIFFON: Right. But I
17 think these findings -- these actions still
18 stand for NIOSH. I'm not sure, but -- let's
19 come back to it, yes.

20 MR. HINNEFELD: Yes, these are
21 essentially AWE Site Profiles.

22 DR. MAURO: Yes. These are Site

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1 Profile readings.

2 CHAIRMAN GRIFFON: Exactly, they
3 are, right, right. Which is these are these
4 mini-reviews that we said we would handle here
5 so. Why don't we pick up on those after lunch?

6 MR. HINNEFELD: I don't think we
7 have provided anything.

8 CHAIRMAN GRIFFON: You don't think
9 there's anything new on those but don't go
10 through them. We go through them.

11 MR. HINNEFELD: I don't think we are
12 going to make it through the rest of the -- I
13 think there's three attachments.

14 DR. MAURO: Yes there's three of
15 them.

16 CHAIRMAN GRIFFON: So this might be
17 a good breakpoint anyway and we can come back
18 and knock that off.

19 Okay so let's take a break until
20 one o'clock Eastern Time. We'll reconvene,
21 finishing the eighth matrix, and then pick up
22 on -- what did I say I was going to do right

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1 after lunch -- the QA. The QA.

2 MR. HINNEFELD: We can do some
3 selection on 14 if you want.

4 CHAIRMAN GRIFFON: And selection and
5 we want to cover David's question about the
6 overarching --

7 Okay. So one o'clock guys.

8 (Whereupon, the above-entitled
9 matter went off the record at 12:02 p.m. and
10 resumed at 1:01 p.m.)

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1 MR. KATZ: Yes, we can continue.

2 CHAIRMAN GRIFFON: All right, we're
3 continuing on with the eighth matrix and we
4 are going to pick back up on attachment one
5 but before we go there, Brant said that he had
6 some follow up from one of the earlier items
7 so we will go back to that.

8 DR. ULSH: Yes, this message was
9 waiting on me when I came back from lunch.
10 It's from Liz Brackett, and it relates to item
11 167, one -- well, 167.5. It's the one where
12 Doug, you were putting in the input manually
13 what the coworker --

14 MR. FARVER: Okay.

15 DR. ULSH: I'm about to forward this
16 message to you and to Wanda and to Brad
17 because you are the ones that have CDC email
18 accounts. I don't.

19 CHAIRMAN GRIFFON: Does that have to
20 be CDC or can that go to my other government
21 email? I don't know what the restrictions are.

22 MEMBER CLAWSON: It can't go to DOE

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1 ones?

2 MR. HINNEFELD: The issue is
3 protection and transit of the information
4 because it has to go out to the internet and
5 then back in from the internet to the other
6 government system.

7 CHAIRMAN GRIFFON: That's fine.
8 Anyway, go ahead and describe it yes.

9 DR. ULSH: I'll just read the
10 message that Liz sent.

11 CHAIRMAN GRIFFON: Yes.

12 DR. ULSH: It says the CADW
13 difference that Doug was talking about for
14 this case (Y-12 coworker coded values versus
15 manual entry) is because the coworker intake
16 rate changes at the end of April 1952. The
17 CADW entries list only the intake rate on
18 January 1 of a year but the calculations will
19 account for the change during the year. It
20 looks like Doug used the January through April
21 rate for the entire year when running it
22 manually, which would overestimate the total

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1 dose because the intake rate decreases from
2 7,054.4 dpm per day to 1,844.4 dpm per day on
3 May 1.

4 MR. FARVER: It's true. It does.
5 It's just not apparent from that entry, in
6 other words it doesn't show it as a variable
7 in the intake. It shows it as an intake over
8 the entire period.

9 DR. MAURO: In the workbook

10 MR. FARVER: Yes.

11 DR. MAURO: Okay.

12 MR. FARVER: Now we understand what
13 it's doing.

14 MEMBER MUNN: Just wasn't obvious to
15 the reader.

16 MR. FARVER: Yes.

17 DR. ULSH: So I don't know if that
18 changes the status on that item or you want to
19 take it back and consider it or what.

20 MR. FARVER: I mean that's probably
21 the reason. In my mind it's closed.

22 CHAIRMAN GRIFFON: Yes, yes, yes, I

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1 think it's closed.

2 MR. FARVER: I would say that if you
3 manually entered them and did it through the
4 correct time periods and changed the intake
5 accordingly, you should come up with the same
6 value.

7 DR. ULSH: So, leave 167.5 closed?

8 CHAIRMAN GRIFFON: I just want to
9 make sure I get that response to capture in
10 here, though, and send it to my -- send it to
11 my CDC and I'll get it but --

12 DR. ULSH: Okay.

13 MR. KATZ: Mark has a CDC account.
14 He's just locked out of it.

15 CHAIRMAN GRIFFON: I just haven't
16 been in it.

17 MR. HINNEFELD: We'll figure out
18 what to do, talk to the computer guy and see
19 if there's something we can do.

20 CHAIRMAN GRIFFON: Okay now I'm
21 going to un-highlight that and then we can go
22 on to attachment one and pick things up from

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1 there. Okay. So attachment one, Bridgeport
2 Brass Site, the mini Site Profile reviews, and
3 these are all outstanding actions from 3/22 so
4 Stu basically I think you're right that if you
5 still have these as actions. I'm not going to
6 modify anything unless you see anything that
7 needs clarification if you are looking at
8 them.

9 MEMBER MUNN: They all look like the
10 same response except that Mark Griffon needs
11 additional time to consider the approach of
12 attachment two, finding three.

13 CHAIRMAN GRIFFON: Oh, I'm on
14 attachment one still. All right. So now
15 Wanda's moving ahead to Harshaw which is
16 attachment two and yes, it seems like, Stu or
17 Brant, stop me if you have anything on these
18 but otherwise I'm going to start on these --
19 the same action and then apparently I have an
20 action in here too, Wanda is reminding me.

21 MEMBER MUNN: Just a small needle.

22 CHAIRMAN GRIFFON: Which one was it?

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1 Attachment --

2 MEMBER MUNN: Three I believe.

3 Attachment two, number three, finding three.

4 CHAIRMAN GRIFFON: Oh okay. Yes, and
5 I just to stick with the theme here today, I
6 didn't do that action either, so. But I still
7 would want to look at that and we haven't
8 closed the rest of the profile so I don't feel
9 so bad.

10 MEMBER MUNN: No.

11 CHAIRMAN GRIFFON: But I will
12 remember to do that. It's a radon surrogate
13 model.

14 MR. HINNEFELD: That would be the
15 Class for Harshaw?

16 DR. MAURO: Yes.

17 MR. HINNEFELD: Harshaw Class?

18 CHAIRMAN GRIFFON: Was the Harshaw
19 Class -- it wasn't the whole period though, in
20 there?

21 DR. MAURO: No, no, it's not.

22 CHAIRMAN GRIFFON: So this still

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1 applies.

2 DR. MAURO: Yes, I'd have to look at
3 it, see what the cutoff is.

4 CHAIRMAN GRIFFON: Yes. Yes.

5 MR. HINNEFELD: I'll have to go
6 look.

7 CHAIRMAN GRIFFON: But the surrogate
8 model, you might recall John, what it was
9 based on?

10 DR. MAURO: I'd have to look at it.

11 MR. HINNEFELD: You'd have to look
12 back.

13 CHAIRMAN GRIFFON: Okay. Five, one
14 action, got that. Okay. Yes I think the rest,
15 they're the same. Going up to attachment three
16 is the Huntington plant. So far I see much the
17 same. Now this finding number four, I don't
18 know if that's a general question also. This
19 is the issue of BZAs versus general area air
20 sampling. Was that a site-specific finding or
21 was it also just overall?

22 DR. MAURO: You know, I didn't -- we

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1 --

2 CHAIRMAN GRIFFON: I noticed that
3 this has come up on several things, right?

4 DR. MAURO: It could be a general
5 statement where the correlation between
6 breathing zone and bioassay but I don't think
7 so.

8 CHAIRMAN GRIFFON: I guess I would
9 just remind, when in doubt, go back to the
10 original report from SC&A because I -- the
11 description is not doing it justice.

12 MEMBER MUNN: The wording of the
13 finding there looks like it's a general one.

14 CHAIRMAN GRIFFON: Yes, that's what
15 I was thinking when I saw it, you know?

16 DR. MAURO: These are abbreviated in
17 the matrix. I'd have to look at it to see what
18 the heart of it was. Most of these, though,
19 are very, what I would say, fundamental. That
20 is you know this is how you did it and I have
21 a question that's almost a common sense kind
22 of question, gee that doesn't seem to make

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1 sense here, and once you guys dive into it, I
2 think you are going to find it easy to track
3 and either agree or not agree you know, it's
4 not going to be anything subtle.

5 CHAIRMAN GRIFFON: But see a lot of
6 these -- well you have more information now,
7 but a lot of these, well all of these I guess,
8 have no initial NIOSH response either, do
9 they, or did you respond in the other context?

10 MR. HINNEFELD: See, I'm trying to
11 decide because some of these indicated that --
12 we would almost conclude from some of these
13 that we sent a response.

14 DR. MAURO: You probably did on the
15 case. Remember, we do two things. We have
16 actual real cases where we reviewed the case
17 and I wouldn't be at all surprised if a lot of
18 the issues that we discussed in the previous
19 set, you know, the set of -- previously there
20 were certainly Harshaw cases. They were
21 Bridgeport Brass cases. And they are all based
22 on the Site Profile, so it's a logical step

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1 and I wouldn't be at all surprised if we have
2 already discussed a lot of the issues, so
3 that's where they come from.

4 CHAIRMAN GRIFFON: Yes, that's where
5 they came from. That's why we added this on.

6 DR. MAURO: Right. Yes. But what I
7 tried to do here is --

8 CHAIRMAN GRIFFON: They are tagged
9 back to the first -- I think it's the first
10 cases listed in the matrix, right.

11 DR. MAURO: And maybe before. What I
12 tried to do here is broaden it because you
13 have to realize, when we do a case, when I do
14 a case for say Bridgeport Brass, it is a
15 particular organ, a particular person, it may
16 have been in one of the facilities, remember,
17 I think at Bridgeport Brass there was a couple
18 of them, Havens facility, and another one,
19 Adrian Plant, I think.

20 And so what happens is when I do a
21 real case, it really does a disservice to call
22 the -- and even though when I do the case I

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1 have to review the Site Profile. So I'm like a
2 lot of -- the Site Profile is the rock that
3 most of these AWE cases stand on. But when I
4 review the case, I only review the Site
5 Profile to the extent I need to review it, for
6 that case.

7 So the reason Mark asked -- we had
8 a lot of cases from Bridgeport Brass you know,
9 et cetera, and he said listen, and you know,
10 and they are slipping -- we are not doing them
11 in Site Profiles. So let's see what we can do
12 here. That's how the genesis of this was.

13 So then what I did was when I
14 reviewed this -- I would not consider it a
15 full-blown Site Profile by any means. But I
16 try to cover the waterfront on all of the
17 external, the internal, how -- where the data
18 came from, the validity of the data.

19 Now for example there are no
20 interviews. We didn't do any data capture the
21 way we do with -- so it's really an
22 abbreviated Site Profile, where I use my

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1 judgment on what I am going to look at,
2 because I thought this was important.

3 CHAIRMAN GRIFFON: Yes, it's a
4 little more of a drill down into some of the
5 basis of some of these things.

6 DR. MAURO: Yes, does it ring true?

7 CHAIRMAN GRIFFON: Right.

8 DR. MAURO: I have a few -- still
9 have to come back to me, some of the examples,
10 but when you fine folks jump into it you're
11 going to find it's something you are going to
12 be able to move through pretty quickly. You
13 are going to either say yes he's right or no
14 he's wrong.

15 MR. HINNEFELD: I believe we
16 actually have some responses out for a couple
17 of these.

18 CHAIRMAN GRIFFON: Right. That's
19 what I am -- yes.

20 MR. HINNEFELD: And we can put them
21 in the matrix.

22 CHAIRMAN GRIFFON: If you do, what I

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1 was going to say, why don't you email me the
2 responses and then I can cut and paste because
3 otherwise we are going to have two versions of
4 the matrix --

5 MR. HINNEFELD: Sounds great.

6 CHAIRMAN GRIFFON: Going on.

7 MR. HINNEFELD: Even better.

8 MS. BEHLING: Excuse me, Mark, this
9 is Kathy Behling. I do have some notes on
10 attachment one which was the Bridgeport Brass
11 and I believe, based on what I have written
12 here, that NIOSH initially did respond to our
13 findings on January 26, 2009 and then we wrote
14 a White Paper thereafter and I know Hans and
15 Harry Chmelynski had presented a response to
16 their initial response at the 3/22, the March
17 22 meeting, 2010.

18 So if NIOSH wants to go back,
19 January 26 we hear an initial response and
20 then we discuss it again back on 3/22, 2010.

21 CHAIRMAN GRIFFON: And this is for -

22 -

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1 MS. BEHLING: For Bridgeport Brass,
2 attachment one.

3 CHAIRMAN GRIFFON: I also see
4 something here in my folder, says draft
5 response to SC&A, comments on Harshaw TBD. So
6 that would be -

7 MR. HINNEFELD: That's what we sent
8 -- that would be what I have.

9 CHAIRMAN GRIFFON: So, there's other
10 --

11 MR. HINNEFELD: So that's a Harshaw
12 and there's some for Bridgeport.

13 CHAIRMAN GRIFFON: Right. Right. So
14 with -- yes that's fine. If I could ask you
15 Stu to boil these down --

16 MR. HINNEFELD: Oh okay.

17 CHAIRMAN GRIFFON: Well, I have
18 them. Maybe I can try to summarize in the
19 matrix.

20 MR. HINNEFELD: I think there's kind
21 of a response paragraph in there.

22 CHAIRMAN GRIFFON: There is. I just

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1 don't want it to be this long.

2 MR. HINNEFELD: Yes, we've done
3 those on others.

4 CHAIRMAN GRIFFON: I know, I know.
5 All right. I'll try to -- I'll take it. I've
6 got the one for Harshaw. I'm not sure I have
7 the one that Kathy is referencing.

8 MR. HINNEFELD: Yes, I can send it.
9 I'll send it to you.

10 CHAIRMAN GRIFFON: What's the title
11 of that?

12 MR. HINNEFELD: The title of that
13 one is --

14 CHAIRMAN GRIFFON: Is it eighth
15 matrix Bridgeport Brass TBD? Maybe I do have
16 it.

17 MR. HINNEFELD: Yes, that's what it
18 was. Eighth case matrix Bridgeport Brass.

19 CHAIRMAN GRIFFON: Okay, so you just
20 pulled out that part of the matrix. So I have
21 that. So I'll roll that all together.

22 MR. HINNEFELD: Yes, all right. And

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1 then the Harshaw actually has the finding and
2 then a paragraph --

3 CHAIRMAN GRIFFON: That's more of a
4 written report, right, right, not a matrix.
5 Okay. I'll pull those together into the set
6 and then you can -- so.

7 MEMBER MUNN: All that November
8 stuff.

9 CHAIRMAN GRIFFON: The actions
10 remain the same. I'll just clean up the matrix
11 to reflect the work that has been done
12 already.

13 MEMBER MUNN: And the White Paper.

14 CHAIRMAN GRIFFON: What's the other
15 thing you have on there?

16 MEMBER MUNN: The White Paper, it
17 was a part of the zip file that came with
18 Bridgeport and the first 20 cases.

19 CHAIRMAN GRIFFON: Oh is that White
20 Paper Harshaw TBD review?

21 MEMBER MUNN: I have it sent in
22 November last year. It's a 28-page White

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1 Paper.

2 CHAIRMAN GRIFFON: And that is for
3 Harshaw, right?

4 MEMBER MUNN: Harshaw.

5 CHAIRMAN GRIFFON: Is that the SC&A?

6 MEMBER MUNN: SC&A.

7 CHAIRMAN GRIFFON: Yes, yes, yes. So
8 that's the SC&A review --

9 MEMBER MUNN: Right.

10 CHAIRMAN GRIFFON: which you call
11 the White Paper for some reason in this case.
12 And they also sent a Bridgeport review.

13 MEMBER MUNN: Yes.

14 CHAIRMAN GRIFFON: Okay.

15 DR. ULSH: So for those two, we have
16 provided initial responses and SC&A has
17 responded to those so now it's back in our
18 court.

19 CHAIRMAN GRIFFON: Right.

20 DR. ULSH: And then for the --

21 CHAIRMAN GRIFFON: I'll put your
22 initial responses into the big matrix.

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1 DR. ULSH: Okay.

2 CHAIRMAN GRIFFON: Right.

3 DR. ULSH: And then for the others
4 we have not yet provided an initial response.

5 CHAIRMAN GRIFFON: I don't see any,
6 unless you know of any.

7 MR. HINNEFELD: I only know of those
8 two -

9 CHAIRMAN GRIFFON: Right.

10 MR. HINNEFELD: Bridgeport Brass and
11 Harshaw.

12 CHAIRMAN GRIFFON: Right, so I think
13 for the other Huntington and -- Huntington,
14 yes, there's only three.

15 DR. ULSH: So, it was Huntington,
16 attachment three?

17 CHAIRMAN GRIFFON: Yes. That should
18 do it. And all the actions remain the same I
19 think. Anything else on that?

20 Okay I think we can move on to the
21 other items on the schedule. I have the
22 discussion of the Quality Assurance

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1 objectives, selecting the 14th set of cases as
2 the next two things.

3 So I just -- I actually, you
4 probably emailed this a while ago but I
5 obviously -- so people on the phone have a
6 copy of this?

7 MR. HINNEFELD: Mike and David will
8 not. We didn't have an email -

9 MR. KATZ: Yes, we don't have a CDC
10 email for them.

11 MR. HINNEFELD: I was concerned
12 about the Privacy Act issue on this because we
13 didn't look through it -- I don't think
14 there's any Privacy Act issue but we don't
15 know for sure. We haven't had it reviewed.

16 CHAIRMAN GRIFFON: Well, we are not
17 going to read it into the record or anything -
18 -

19 MR. HINNEFELD: No, I mean, we can
20 talk about it but in terms of sending it to
21 non-government emails --

22 CHAIRMAN GRIFFON: I got it.

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1 MR. HINNEFELD: So I couldn't -- we
2 didn't send that. Now the actual selection
3 list, that was -- we don't have to worry about
4 Privacy Act because that has been vetted many
5 times in that form, so that, we don't --

6 CHAIRMAN GRIFFON: Do you have that,
7 did you get a chance to --

8 MR. HINNEFELD: Let me think back,
9 now that I'm thinking about that, let me go do
10 that now. See what they --

11 CHAIRMAN GRIFFON: Okay.

12 MR. HINNEFELD: I did not --

13 CHAIRMAN GRIFFON: You need to --

14 MR. KATZ: How many copies --

15 CHAIRMAN GRIFFON: For this
16 discussion that was what I was wondering, yes
17 --

18 MR. HINNEFELD: Yes, I should
19 probably be here for the discussion.

20 MR. KATZ: Let me take care of that.

21 CHAIRMAN GRIFFON: Mike and David, I
22 don't know if you have joined us yet, again.

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1 David, is --

2 MEMBER GIBSON: Yes, I'm here Mark.

3 CHAIRMAN GRIFFON: Oh, hi. Mike.

4 That's Mike. Okay. So this is -- so as you
5 heard, you won't be looking at this document.

6 We just got it. I just got it today. This is
7 the NIOSH review of the QA issues from the
8 claims reviewed by SC&A so from those first --
9 it was a little over 100. I think we went to a
10 bigger set of cases, right Stu?

11 MR. HINNEFELD: Actually, there was
12 a set of 100.

13 CHAIRMAN GRIFFON: Yes.

14 MR. HINNEFELD: Then there was a
15 smaller set that we did our --

16 CHAIRMAN GRIFFON: But I thought you
17 picked it initially from a larger subset of
18 150 -- it went through the eighth set I
19 thought.

20 MR. FARVER: 110 or something, yes,
21 it might have been gone through the eighth
22 set.

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1 CHAIRMAN GRIFFON: Yes, yes, because
2 we expanded it so we had more to pick from,
3 basically. Anyway it is all those QA findings,
4 SC&A selected some that we wanted to sort of
5 track back to see what the sort of root cause
6 was of why these mistakes were made and NIOSH
7 did a -- and this is an initial cut at that,
8 is that what --

9 MR. HINNEFELD: Yes.

10 CHAIRMAN GRIFFON: So I'll let Stu
11 describe it, yes.

12 MR. HINNEFELD: Let me give you a
13 little pedigree on this. We haven't had this
14 very long and so we didn't really vet it much.
15 But because we wanted to get it to the
16 Subcommittee for the purposes of discussion
17 and checking out expectations. Now I have
18 hardly, to be honest with you, hardly looked
19 at it. There is supposed to be in here some
20 sort of discussion of what would you do to
21 prevent this in the future and I'm not -- you
22 know, some of these may not lend themselves to

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1 that very well, but there is supposed to be
2 some sort of thing like that in here.

3 In any case, whenever you start
4 down this pathway of doing a deficiency report
5 and then a disposition report, one of the
6 things you have to worry about is if I do
7 this, is the amount of effort it would take me
8 to put a system in place to prevent this error
9 worth saving errors of this sort?

10 So that's going to have to be part
11 of the decision as well. We haven't really
12 gone very far down that path. It's a sort of a
13 -- an evolving thing and so this, chances are,
14 will be part of a broader, quality assurance
15 question, which is probably going to get
16 handed to us as part of the 10-year program
17 review anyway.

18 So it's going to be part of -- it's
19 sort of an early effort, a work that we expect
20 to be evolving as we go forward. So that's
21 kind of the background here. And we have not,
22 in the office, vetted it very thoroughly and

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1 so we made sure we put a disclaimer on it
2 about this being a draft document or a working
3 document. We didn't put a draft watermark on
4 it or anything, but it's still fairly
5 preliminary.

6 If you would like I can start
7 through these.

8 CHAIRMAN GRIFFON: Yes, I wouldn't
9 mind -- well, either that or --

10 MR. HINNEFELD: Well, I think it
11 might be helpful -

12 CHAIRMAN GRIFFON: Yes. Maybe --

13 MR. HINNEFELD: The first finding is
14 that an error was made in the data entry for
15 an IMBA run which grossly overestimated the
16 internal alpha dose and this had to do with
17 the TBD stated annual intake of uranium, is
18 what the intake is, is 1,400 picocuries per
19 year. But there were two mistakes apparently
20 in entering. One was an order of magnitude too
21 high in the number and then choosing
22 picocuries per day as the entry instead of

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1 picocuries per year and so it's just a huge,
2 huge overestimate.

3 Now you would think you would see
4 that, you would think you would notice that,
5 you know, the dose reconstructor would make
6 it, or the peer reviewer wouldn't it, and this
7 just says, well, it was a mistake and the DR
8 shouldn't have made the mistake. He knew
9 better, or she knew better, and the peer
10 reviewer should have caught it.

11 The peer reviewer's instructions do
12 not specifically say make sure the IMBA intake
13 value is correct. It doesn't say that line on
14 the review procedure where it tells the peer
15 reviewer what to do, but it does say make sure
16 the tools are checked, all tools in the
17 assessment, of which IMBA would be one.

18 So again, it's a matter of probably
19 a careless mistake on the part of the dose
20 reconstructor and perhaps a mistake because of
21 time constraints on the part of the peer
22 reviewer. I think to really go much further

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1 it's going to take a little more discussion on
2 our side. I don't know that the Board needs to
3 talk about it that much, but it's going to be
4 more a discussion on our side about are we
5 expecting too much of somebody.

6 Well, I mean you could go further
7 down this path. Did the dose reconstructor,
8 did they know how to use IMBA well enough?
9 Were they accomplished enough in IMBA or did
10 the part of units per day is just part of
11 using IMBA that they were unfamiliar with and
12 just didn't check off, change from the
13 default.

14 That's one -- I mean, you can
15 examine further the knowledge of the dose
16 reconstructor and you can examine further the
17 specificity of instruction to the dose
18 reconstructor and to the peer reviewer. I'm
19 not sure there's a lot of ground to go there,
20 a lot of gain to be made in that. Doug, I
21 don't know what you would think about
22 something like that?

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1 MR. FARVER: Oh, my concern is why
2 wasn't it caught --

3 MR. HINNEFELD: Yes.

4 MR. FARVER: And how can you catch
5 it in the future, would be the only thing.

6 CHAIRMAN GRIFFON: Especially when
7 it appears to me this would be a -- it's a big
8 overestimate, right?

9 MR. HINNEFELD: It's not just a tiny
10 --

11 CHAIRMAN GRIFFON: Yes.

12 MR. HINNEFELD: And the problem here
13 is, you know, this one was in the high
14 direction. What happens if somebody makes the
15 same mistake in the low direction?

16 CHAIRMAN GRIFFON: Right, right.

17 MR. HINNEFELD: You know, that's the
18 problem.

19 MR. FARVER: You know, the one thing
20 that comes to mind is -- I don't know what the
21 DR report says but it actually say that it is
22 supposed to be 1,400 picocuries per year, then

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1 someone reviewing the DR report should review
2 the actual calculation and say oh, it's not
3 picocuries per year at all, it's off by a
4 factor of 10. You know, if that value is
5 actually in the DR report which it may or may
6 not be. That way it could be caught.

7 DR. MAURO: One of the things that
8 happens when you go to a tool. You see, you
9 are building a machine that's trying to put I
10 don't know how many a week, trying to move
11 these things out. I have the luxury to sit
12 back and think about what is it that they are
13 doing here. And it is a luxury. So I'm trying
14 to get to a root cause thing, what do you do
15 to fix something like this?

16 There is the machine that is going
17 in check, check, check, check, check, check,
18 but then there's this other thing where you
19 have to say well, does this make sense and
20 that's what I do. I just ask myself. I don't
21 go into these workbooks the way a lot of our
22 crew does. I do something different. It

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1 doesn't take long when you ask yourself --
2 this is a classic problem that may not be
3 caught when you are inside the machinery. It's
4 caught when you are not, you know, I'm just
5 giving you an observation.

6 So one of the things I guess I
7 think is very important, whenever we do our
8 work and you are in the same boat we are in,
9 is you have got to sort of step outside of the
10 thing and ask yourself some common sense
11 questions about what -- does it look like it
12 makes sense? And that's not easy to do yet.
13 Anyway, I don't know if that helps.

14 CHAIRMAN GRIFFON: Well, that did
15 have -- I mean from my new job, I tend to
16 think that just blaming -- not blaming, but
17 just pointing out that the worker made an
18 error isn't really getting at the root of the
19 problem. Right.

20 MR. HINNEFELD: I agree. I was
21 taught the same thing.

22 CHAIRMAN GRIFFON: So the question

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1 then is like, you know, because I can see a
2 situation where not only is the -- you said
3 inside the machinery but also the peer
4 reviewers may have so many peer reviews to do,
5 that you know, because I'm thinking well how
6 could -- like Doug, how could this get through
7 the layers, you know, you have sort of these
8 layers to sort of catch those mistakes or
9 catch those or if the first dose reconstructor
10 doesn't flag it then the peer review will.

11 MR. HINNEFELD: This is the reason I
12 think that this needs really individual
13 discussion from our side and the ORAU people
14 who do these things about what exactly,
15 because it's not clear to me what exactly the
16 peer reviewers see.

17 CHAIRMAN GRIFFON: Right.

18 MR. HINNEFELD: Not clear to me the
19 peer reviewer sees a finished dose
20 reconstruction report, with the verbiage in it
21 and everything. So to me there's a lot more
22 knowledge of the intricate details of the work

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1 process that are required in order to fix the
2 details of the work process.

3 MR. FARVER: Whoever is signing off
4 on the front page of that DR report should
5 have reviewed it.

6 MR. HINNEFELD: Should know. It
7 should say I agree this is right. Your
8 signature can always be --

9 MR. FARVER: Really probably the
10 only way you are going to catch this is if
11 this is actually stated in the DR report that
12 it should be so much per year. Then you have a
13 chance of catching it.

14 MEMBER MUNN: Then the reviewer
15 should know.

16 MR. FARVER: Should compare this
17 with this and say oh, they are different.

18 CHAIRMAN GRIFFON: Yes, but there's
19 sometimes just a reality check so someone
20 saying wow, that's a huge intake, you know --

21 MR. FARVER: That can work too.

22 CHAIRMAN GRIFFON: That real -- I

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1 know we do a lot of overestimates so that
2 makes it tricky because you know --

3 MR. HINNEFELD: You would think
4 somebody would have said wow, that dose
5 intake?

6 CHAIRMAN GRIFFON: Right, right,
7 right.

8 MR. FARVER: I do it by hand.

9 CHAIRMAN GRIFFON: But I think we
10 are going to run into this a lot and the
11 trouble will be --

12 MR. HINNEFELD: I think every one --

13 CHAIRMAN GRIFFON: peer review
14 question, right.

15 MR. HINNEFELD: I think every one,
16 if you really want to do a serious evaluation
17 of -- because if you're looking about why do
18 things break, why did it not work, you need to
19 have a pretty good understanding of the work
20 process.

21 CHAIRMAN GRIFFON: Right.

22 MR. HINNEFELD: And to do that we

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1 are going to get a better understanding o the
2 work process to do that and this may be -- I
3 mean a project like that may be for a handful
4 of claims. That might be an all-day meeting if
5 we were going to do it in this group, or it
6 might be just, more conveniently, us going
7 back to ORAU in our world and when we can do
8 it --

9 CHAIRMAN GRIFFON: I would ask that
10 you go back to ORAU but then come back to us
11 with a presentation --

12 MR. HINNEFELD: Yes.

13 MEMBER MUNN: Absolutely.

14 CHAIRMAN GRIFFON: Of the work
15 process, you know.

16 MR. FARVER: I just -- I sit on a
17 commission in New Jersey that is looking it --

18 CHAIRMAN GRIFFON: Are you a county
19 commissioner?

20 DR. MAURO: No, I'm not a county
21 commissioner.

22 CHAIRMAN GRIFFON: That was a

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1 lunchtime joke. Sorry.

2 DR. MAURO: We sit around a table
3 like this and right now the big ticket item --
4 I don't know if you know this, some very, very
5 serious problems with radiotherapy. People go
6 in to get radiotherapy on a tumor and mistakes
7 are being made. And this goes -- and the
8 reason for the problem is everything is
9 computerized and there's a very, very, very
10 sophisticated machinery in place and they have
11 got an army of technicians and other folks,
12 physicians, going inside and they run the
13 machine.

14 And I asked the question, well is
15 anybody sitting -- is there anybody watching
16 the store from the bigger picture before the
17 person goes in, wait a minute, what are we
18 doing here, does it all make sense? I'm not
19 saying you're doing this, but what I'm getting
20 at is this is a classic big problem. This is
21 where the big mistakes are made.

22 You know when we catch, they didn't

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1 have -- instead of 26 zeroes there are 28
2 zeroes, you know, that's -- you know, you have
3 to catch that.

4 CHAIRMAN GRIFFON: Yes, yes, I think
5 this is -- I don't mean to cut in on you but
6 this is, sort of Stu's point is, if I can give
7 the -- this is nice because I'm using some of
8 the new stuff --

9 DR. MAURO: Oh is that right?

10 CHAIRMAN GRIFFON: Everything we are
11 looking at on the Chemical Safety Board is
12 high risk, low probability, so this is sort of
13 high risk situation --

14 DR. MAURO: Exactly and more
15 probability.

16 CHAIRMAN GRIFFON: And in this
17 instance it's sort of the technology getting
18 ahead of the workplace management, how to
19 handle this, how to handle the technology.

20 DR. MAURO: Yes.

21 CHAIRMAN GRIFFON: I don't think we
22 really have this with the --

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1 DR. MAURO: No. No.

2 CHAIRMAN GRIFFON: Same type of
3 thing, but to look at one thing we have to try
4 to be able to tease out is how can NIOSH catch
5 the bigger ones but some of the littler ones,
6 like Stu is saying, how much investment do you
7 make to catch every little error versus just
8 catching them -- if you don't want to make big
9 mistakes, can we accept little mistakes, I
10 guess is what I'm trying to say, and where's
11 that -- how can we make that distinction?

12 MEMBER MUNN: Well then you can't
13 draw a line. It's always going to be --

14 CHAIRMAN GRIFFON: Right, right,
15 right, yes

16 MEMBER MUNN: But the second part of
17 this question, which is at least as important
18 and maybe even more important ultimately than
19 the one we have before us is, are these types
20 of oversights still occurring? Or was this an
21 artifact of the early days and this particular
22 -- and/or this particular site that we were

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1 looking at? You have a case where we have
2 found this problem. Now is this a repetitive
3 problem --

4 CHAIRMAN GRIFFON: Oh, you mean the
5 bigger ones. I mean, the QA issues continue to
6 be, now the magnitude of them is right, I'm
7 not sure how many are -- a lot of them we
8 catch are smaller, right, don't you agree,
9 Stu, I mean Doug?

10 MR. FARVER: They may be small for
11 the case we look at.

12 CHAIRMAN GRIFFON: Yes.

13 MEMBER POSTON: Maybe I'm -- many
14 years ago I went through this training before
15 I got -- I know how the dose reconstructors
16 are supposed to do this stuff and in the old
17 days, maybe it's changed, there was always a
18 peer review that was done and I know a lot o
19 times those dose reconstructions would go back
20 to the person who did it and say you forgot to
21 do this or you ought to do that, and where is
22 this system broken? Is it because it is -

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1 CHAIRMAN GRIFFON: Well, that's why
2 I think we need --

3 MEMBER POSTON: More and more
4 computerized and so people are trusting the
5 computers? I mean, that's a real fallacy to
6 think the computer is going to tell you the
7 right answer.

8 CHAIRMAN GRIFFON: You see I think
9 that's what we need to -- at least I think the
10 best way forward is to let NIOSH go back to
11 ORAU and get a good understanding and present
12 it to us as a Subcommittee I think first,
13 unless you think it should go to the full
14 Board, of the work process. What exactly
15 happened? How did the peer reviewers do it?
16 What do the peer reviewers do because we have
17 a general impression and I've seen the
18 checklist but -

19 MEMBER POSTON: But I had another
20 question at a higher level, are there
21 documents that show that these computer codes
22 and so on have been verified and validated?

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1 Where are the V&V documents that we used to
2 have on every one of these codes?

3 CHAIRMAN GRIFFON: Right.

4 MEMBER POSTON: Nowadays people
5 write computer codes and they start using
6 them. Back when I was a pup we actually sat
7 down and made hand calculations to make sure
8 that every part of that code worked.

9 CHAIRMAN GRIFFON: Right.

10 MEMBER POSTON: And so we ought to
11 have some validation documents that would show
12 that these things are working.

13 CHAIRMAN GRIFFON: I know for IMBA,
14 you guys -- you went through this, didn't you,
15 with IMBA? I don't know where it stands but
16 the question was raised, yes.

17 MEMBER POSTON: Wait. I don't feel
18 strongly about this.

19 (Laughter.)

20 DR. ULSH: Maybe I'm missing
21 something here because I'm just reading what
22 it says here. What it says happened this was,

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1 this two typographical errors, that the dose
2 reconstructor made two errors in entering into
3 IMBA. The order of magnitude was too high and
4 he chose picocuries per day instead of
5 picocuries per year. Now that doesn't say to
6 me that that's a problem in the tool or the
7 computer code. That's a problem in the dose
8 reconstructor man.

9 DR. MAURO: That's true. That's
10 true. In this case, yes.

11 DR. ULSH: And -- well, you look at
12 it from -- in terms of impact on PoC, it's a
13 big problem, I mean it's a big issue. But if
14 you look at it from a dose reconstructor's
15 standpoint, someone who is putting out however
16 many DRs a day, this is a situation where a
17 small error had a big impact.

18 CHAIRMAN GRIFFON: Right.

19 DR. ULSH: So, these are going to be
20 the most challenging types of issues, where if
21 I type picocuries per day instead of
22 picocuries per year, that's a big impact, but

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1 in terms of a glaring, easy to detect error,
2 unless you do what John said and take a step
3 back, it's going to be hard to detect. But I
4 don't see that this is a consequence of things
5 getting too computerized.

6 CHAIRMAN GRIFFON: Maybe not. I
7 don't know what the red flags are yet, but I
8 think the more troubling -- we've all said
9 this -- that the more troubling thing in this
10 case is not that they mis-keyed something, I
11 mean that can happen to anyone, but that it
12 went through at least one peer review after
13 this, you know.

14 DR. ULSH: And please understand,
15 I'm not saying --

16 CHAIRMAN GRIFFON: That's the
17 question. It's the system, more -- yes. Yes.

18 DR. ULSH: I'm not saying that it's
19 not something that you should correct. I'm not
20 saying that at all.

21 CHAIRMAN GRIFFON: I think John's
22 raising another issue, which may be a separate

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1 issue, but you know --

2 MEMBER CLAWSON: But it has been an
3 issue that has come to the table numerous
4 times.

5 CHAIRMAN GRIFFON: Yes.

6 MEMBER CLAWSON: Is feeding -- we
7 are feeding all of this in and I have to laugh
8 because my wife just started back into school
9 and her teacher is frustrated because she does
10 everything long-hand. She says, that's what
11 the computer is here for and she says yes, but
12 when I screw up I can't see what I did wrong
13 in the computer program. And this is part of
14 the checks and balances of the process, I
15 think that people don't understand is, you
16 have a computer system, works great, but how
17 do we know what's going on in there, and
18 that's just a check back.

19 We have in the process that I work
20 out out there, we have to validate our system
21 monthly because there gets to be glitches in
22 there, there gets to be bugs. We have to check

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1 our -- can't really talk about what -- but it
2 makes sure our system that we are feeding you
3 information into checks out. Every month we
4 have a program check, and this is kind of what
5 I think some of that frustration -- what
6 people are looking at because we can't see
7 what's happened, we can't go wrong, and then
8 you get into the peer reviews of where did we
9 pass this, how did this get past?

10 MEMBER POSTON: I agree with what --
11 I probably overreacted. But I think there are
12 two issues. One of them is data entry and
13 checking, the other is to know that the codes
14 are doing them right, and I don't know, no one
15 has told me, oh we got V&V data, no one has
16 told me that, so if they told me that I would
17 be quiet about that.

18 MR. HINNEFELD: IMBA's got a
19 verification and IREP has a verification.
20 There are workbooks that we use, there's some
21 verification work done before it is put into
22 place. Now, do I know specifically what it is?

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1 No, but I could find out because all those
2 workbooks are verified, okay, it's doing what
3 we think it should do before it goes do the
4 work.

5 CHAIRMAN GRIFFON: Well, the other
6 check on the workbooks is quite frankly our
7 process, I mean, when we do the procedures
8 review, we are doing the workbook reviews.
9 It's a point in time, I agree, because they
10 evolve, but we are at least looking at that to
11 some extent, but internally --

12 MR. HINNEFELD: That's all done, I
13 mean it is done for IMBA and it's done for
14 IREP.

15 CHAIRMAN GRIFFON: Yes, but John's
16 right, we haven't seen, we haven't --

17 MR. HINNEFELD: No, but I think IREP
18 might be on the web.

19 CHAIRMAN GRIFFON: True.

20 MR. HINNEFELD: It's available,
21 validation and verification is on the website.

22 DR. MAURO: Oh, no --

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1 MEMBER RICHARDSON: This is David.
2 Those are two great points about verification
3 of the software and verification of the data
4 entry process, and I've been leaning towards
5 thinking about the latter although I think the
6 former is important and I think IMBA's has
7 more independent users than the NIOSH version
8 of IREP does so IMBA's probably been verified
9 by BNFL and other people who are also using
10 it.

11 IREP, I mean, we say we are
12 verifying IREP through this process but we are
13 not really. I mean I think there's -- nobody
14 has independently tried to derive that. I
15 can't. I've tried to dig into it some. I can't
16 move very far forward in kind of taking it
17 apart and trying to independently derive those
18 posterior Probability of Causations that it is
19 spitting out, so that's an open question to
20 me.

21 But for the question about
22 verifying the data entry, I mean, here we are

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1 focused on one situation where it had a big
2 consequence, but going through the seventh and
3 eighth matrix, I have written down whole
4 series of places where there were what I would
5 consider data entry errors, like 125.7, maybe
6 154.1 and 155.5, and the thing that is
7 concerning to me is that this is a like is it
8 a 0.3 percent sample? I mean, like 100 records
9 out of how many thousands?

10 CHAIRMAN GRIFFON: Yes, that's why
11 we are saying, it's a small sample and that's
12 why, even though these are minor, if you think
13 that it's happening over the whole population
14 of these --

15 MEMBER RICHARDSON: Yes, but I mean
16 I would, like documenting 15, 20 key punch
17 errors in a 0.3 percent sample means, if you
18 weight that up --

19 CHAIRMAN GRIFFON: Right.

20 MEMBER RICHARDSON: That's tens of
21 thousands of key punch errors. That is a big
22 flag to raise and it seems like that's -- as

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1 one part of Program Evaluation, this is
2 something that is kind of reproducibility that
3 if two people type in the same information, a
4 minimum criteria for reproducibility would be
5 that they typed that into a spreadsheet and
6 you are going to have the same values.

7 CHAIRMAN GRIFFON: Right.

8 MEMBER RICHARDSON: So I don't know,
9 I --

10 CHAIRMAN GRIFFON: No, no. you raise
11 a good point. I think, I mean, I don't know,
12 David, how you feel but my proposal was to
13 have NIOSH take these back because we are just
14 looking at these live and you don't have them
15 in front of you, I don't think.

16 MEMBER RICHARDSON: No.

17 CHAIRMAN GRIFFON: No. So, what they
18 have provided us is these descriptions going
19 back to each individual case that we asked to
20 look into further, but without understanding
21 the ORAU process, you know, what they do in
22 terms of peer reviews -- more of the specifics

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1 of the work process, it's hard to really dig
2 much deeper than yes, there was an entry error
3 here, you know, and why didn't the peer review
4 catch it? Well, we don't really know. Well,
5 what does the peer review exactly do?

6 So I think that's where I'm sort of
7 -- I don't mean to end this discussion now but
8 I mean that's one thing, at least, that I
9 think NIOSH, it would be good for me to know.

10 MEMBER RICHARDSON: So aside from
11 this, what we are doing, there's not a
12 standard process of double entry of data for
13 kind of the fundamental data entry?

14 MR. HINNEFELD: Well, the dose
15 reconstructor, when the dose reconstructor
16 enters data into something, there is not. When
17 -- before the dose reconstructor even gets a
18 case file, the DOE exposure record is coded
19 onto essentially a cell, a spreadsheet, so and
20 that is dual coded. I believe that's the QC,
21 but that does have data -- the kinds of
22 traditional data entry QC you would expect.

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1 Now from, now that file then goes
2 to a dose reconstructor for interpretation
3 into a dose reconstruction report, either
4 using IMBA or CADW or whatever tools the dose
5 reconstructor uses. That dose reconstructor's
6 work of entry is not QC'd, is not double coded
7 QC, they don't put a second person down there
8 to do the dose reconstruction again. A peer
9 review --

10 CHAIRMAN GRIFFON: Sometimes they
11 will have the manual entry, they wouldn't just
12 input those numbers necessarily.

13 MR. HINNEFELD: I think -- I don't
14 know. Scott may be able to speak up here. I
15 think it's going to depend on what tool they
16 have available to use at what point.

17 MR. SIEBERT: I'm also going to jump
18 in Stu. I'm not 100 percent sure that we are
19 doing double key entry for the external
20 records. We'd have to check with that.

21 MR. HINNEFELD: Okay so may not be
22 double entering. Okay.

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1 CHAIRMAN GRIFFON: Anyway, those
2 specifics would be good to have, to come back
3 to us with so we know exactly what is
4 happening.

5 DR. MAURO: Say, I got something to
6 bring up that could be very important. It has
7 to do with spreadsheets. I had a very large
8 contract, with the Nuclear Regulatory
9 Commission many years ago where we started off
10 using spreadsheets to build the simulation.
11 The spreadsheets got bigger and bigger, more
12 and more complex, more and more sophisticated.
13 You reach a point with spreadsheets where you
14 cannot catch the errors. You cannot catch
15 them. We moved to Fortran, we just abandoned
16 the whole spreadsheets approach and went to
17 Fortran, which is readily QA-able, in other
18 words, Fortran is a do-loop

19 Spreadsheets, especially when they
20 are a little ad hoc, I could imagine some of
21 you folks say well I have got to fix this and
22 they would be a little bit -- and do something

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1 to the spreadsheet on the go to deal with a
2 particular circumstances. It becomes --
3 there's a point -- I'm just, believe me, I
4 have been through this and I have seen it
5 happen -- this project stopped in its tracks
6 because we could not catch all the errors. The
7 spreadsheets became unwieldy, impossible to
8 check and we didn't even know if we were
9 making any mistakes. We just abandoned the
10 whole thing and in no time, we had our folks
11 convert everything to Fortran. Fortran is very
12 tractable through QA, QC process,
13 conventional, this has to do with the nuclear
14 safety issues, and you do not want to use a
15 spreadsheet at some point.

16 Now I don't know how big these
17 things are but I've seen some spreadsheets
18 that have come out of this thing that are
19 enormous.

20 CHAIRMAN GRIFFON: Yes, these
21 workbooks can be really --

22 DR. MAURO: And let me tell you

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1 something, you are not going to -- it is
2 extremely difficult to ensure quality when you
3 get to a certain point with the complexity of
4 a spreadsheet. This is an observation that I
5 have.

6 MR. KATZ: It seems like we have two
7 action items here, one for DCAS to develop a
8 presentation to the DR Subcommittee on the
9 whole DR process so that you can get into the
10 QA bit, and a second is for a DCAS
11 presentation on whatever, it doesn't sound
12 like it would be extensive, but on what is
13 done in terms of workbook validation when it
14 is developed.

15 MR. HINNEFELD: Okay.

16 MR. FARVER: Well we do find
17 workbook errors. It's an error in how the
18 workbook is built. In this case this was just
19 a --

20 DR. MAURO: Oh, no.

21 CHAIRMAN GRIFFON: Right, right,
22 right.

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1 MR. HINNEFELD: I understand.
2 Absolutely, absolutely.

3 DR. MAURO: We entered into a thing
4 where -- I lived through this and I know,
5 these things get too big.

6 MR. HINNEFELD: And you dated
7 yourself a little bit with Fortran there John.

8 DR. MAURO: I didn't do it -- that's
9 how we fixed it though, and it wasn't that
10 long ago. And it fixed it.

11 MEMBER MUNN: You are not alone.

12 CHAIRMAN GRIFFON: It is, yes. Okay,
13 Stu, can I ask, are there any -- what I was
14 going to ask is, out of these, you're more
15 familiar with them than I --

16 MR. HINNEFELD: Well, only barely.

17 CHAIRMAN GRIFFON: Are there are any
18 that we should be aware of? I mean, just for
19 the sake of example here, we can go into them
20 more later when you come back, but -

21 MR. HINNEFELD: I don't know that I
22 have enough -- I am familiar enough to really

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1 comment on very much.

2 DR. ULSH: I would propose that --
3 well, this may be getting above my station,
4 but I would propose that NIOSH go back and do
5 these two action items and that will also give
6 the Subcommittee time to look at this --

7 CHAIRMAN GRIFFON: Look at this,
8 yes.

9 MR. HINNEFELD: If you would like,
10 we will go through them and we will say okay,
11 here's one that we think is particularly -

12 CHAIRMAN GRIFFON: Yes.

13 MR. HINNEFELD: Although to be
14 honest to Richard's point, the data entry
15 situation -- in this case we had mistake that
16 was easy to make, it was a data entry mistake,
17 not a big consequence. Okay, going back to my
18 safety manager days, the idea was that you
19 wanted to design your work process so that the
20 everyday mistakes that people are going to
21 make don't have a big consequence.

22 So that's the kind of situation we

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1 are in here, is how do we avoid the easy to
2 make mistakes, how do we avoid a big
3 consequence associated with the say to make
4 mistakes, or what do we have to do especially
5 to make sure that these easy to make mistakes
6 don't carry through the process and have a big
7 consequence.

8 CHAIRMAN GRIFFON: Right. Okay.

9 MR. FARVER: Well, if you just take
10 a look at the last page, 158, 155.8, and even
11 the one above that, 155.5. Look at finding
12 155.8, failed to assign environmental tritium
13 dose and you can read through the response,
14 but the peer review procedure was in place
15 about two months prior and it does include
16 checklist for internal environmental dose
17 assessment, you know, is it correct,
18 appropriate assessment.

19 So that probably should have been
20 caught on that peer review. And then the one
21 above that is another data entry error where
22 the value is off by a factor of 10, an order

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1 of magnitude high because they entered a
2 bioassay value that was incorrect.

3 So these errors just keep on. So
4 anyway, but the last one was the one that
5 caught my eye there.

6 MEMBER MUNN: There's no way we can
7 note these kinds of errors. The question is,
8 how can we catch them?

9 MR. FARVER: Yes, agreed.

10 CHAIRMAN GRIFFON: How can you flag
11 the ones that have bigger consequences, which
12 is a trickier question.

13 MR. HINNEFELD: I'm not sure you can
14 do that.

15 CHAIRMAN GRIFFON: I know, I'm not
16 sure either.

17 MR. HINNEFELD: Whatever process --
18 we are talking about data entry here which is
19 kind of a theme on a lot of these, stuff
20 didn't get added that should have been put in,
21 some if it where the wrong values were put in,
22 some of the things weren't put in that should

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1 have been put in. You're talking about that,
2 there's no way to prejudge which one, you will
3 only look for the ones that are important I
4 don't think.

5 CHAIRMAN GRIFFON: No, I'm not -- I
6 offer that --

7 MR. HINNEFELD: I don't know of any.

8 CHAIRMAN GRIFFON: that's what we'd
9 like to answer but I'm not sure how they --

10 DR. MAURO: Every single one of
11 these dose reconstructions, you could create a
12 very sophisticated, very accurate protocol,
13 with the workbook. I'll tell you right now,
14 when we were doing the blind dose
15 reconstruction, we broke it up into two
16 groups. One person that was going to do the
17 real, heavy lifting, detailed workbook work
18 and my job was to do it by hand and I said
19 listen, I don't care about the details. I am
20 just going to look at something. Let me see
21 what the -- oh here's the bioassay results?
22 I'm not going to do a curve fit on IMBA, I'm

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1 going to look at the bioassay results and see
2 where they're coming in.

3 So okay, what seems to make sense,
4 what would give you that? I was not looking
5 for a level of precision. I was looking for
6 does it seem to make sense? I have to say
7 this. I think a lot of folks forget just to
8 sit down and say wait a minute, does this seem
9 to make sense? In 15 minutes, you could see
10 whether or not this thing is within a factor
11 of two. My rule is that when I'm checking
12 something, if I come within a factor of two,
13 it's probably right. And you catch these big
14 ones fast. Anyway --

15 MR. KATZ: So that's a procedure
16 that a peer reviewer might use for example as
17 a way to try to catch some of these.

18 CHAIRMAN GRIFFON: But, see, then
19 you -- and then you might have another -- a
20 level of -- and we have talked about this
21 before too -- there's a level of peer review
22 when you get to those that are closer to the

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1 PoC or something like you know, because that's
2 where even a small error could swing a case if
3 you're at 49.8 or whatever percentile, then
4 even small mistakes can make the difference.
5 So I guess it's not as simple as just catching
6 the big ones.

7 DR. MAURO: I agree with you. I'm
8 only talking about the big ones, the big ones.
9 A 20 percent difference, I'm not going to pick
10 up the way I do it. And 20 percent could be
11 very important if you're at 47, 48 percent.

12 MEMBER MUNN: An order of magnitude
13 you ought to be able to catch, just by looking
14 at it.

15 CHAIRMAN GRIFFON: Brant's got a
16 thought on this.

17 DR. ULSH: Also keep in mind, to go
18 to a point that was raised earlier about, if
19 we're catching this many errors in this small
20 sample, how many are in the whole population?
21 Don't we have a selection process where this
22 committee is purposely honing in on situations

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1 where these types of errors would be likely to
2 occur or to have a big impact? I mean we are
3 looking at ones --

4 DR. MAURO: It's a cross-section. We
5 are trying to catch every decade --

6 CHAIRMAN GRIFFON: Yes.

7 DR. MAURO: every PoC category, and
8 every cancer --

9 MR. HINNEFELD: Yes, but selection
10 is keyed towards close to 50 percent.

11 DR. ULSH: We have situations where
12 little --

13 CHAIRMAN GRIFFON: But that may not
14 change the error rate, that may change the
15 consequence rate, it may change -- yes. Yes.
16 Right. Anyway. We'll leave those two actions
17 that Ted described, I think, are where we
18 should move with this topic, but anything else
19 for the record now? We have these examples,
20 we'll try to -- Mike and David will make sure,
21 well they don't have government accounts,
22 these have to be cleared first --

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1 MR. HINNEFELD: We can get it
2 cleared through OGC probably and get it to
3 them. I don't think there's going to be any
4 privacy issues.

5 CHAIRMAN GRIFFON: We'll get these
6 to you as soon as I can. NIOSH will get these.

7 MR. HINNEFELD: The fact is I would
8 prefer not to send it all and the reason I
9 would -- we will, but my preference is to send
10 it only to CDC computers because once we start
11 sending things, okay this is cleared we can
12 send it outside, this is going to be sent
13 outside, it won't be long until we make a
14 mistake.

15 MR. KATZ: Well, yes, I mean, what
16 I've suggested for that is I can forward
17 things that are not sensitive, I can forward
18 them, I'm not worried about my making a
19 mistake. I don't think I'll make a mistake. So
20 -- I don't mind doing that and that's a
21 workaround for that.

22 So for non-sensitive, I don't mind

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1 forwarding those documents. You send them to
2 me with just the CDC people and I'll take
3 responsibility for sending it to others, but
4 it's PA it doesn't go to anyone else from me,
5 either, so that's -- and I've sent the Board
6 an email about that recently. Up until now
7 I've sort of taken on the burden of the
8 liability on that issue and I'm not going to
9 carry it anymore.

10 CHAIRMAN GRIFFON: Okay, so let's
11 move on to the next item, the selection of the
12 14th set of cases, and Mike and David, do they
13 have any way of getting these? You said these
14 could be emailed or no?

15 MR. HINNEFELD: Yes, these are not
16 privacy. I know these are not privacy.

17 CHAIRMAN GRIFFON: I mean are you
18 comfortable with emailing them to their
19 regular accounts?

20 MR. HINNEFELD: I'm not comfortable
21 but I can do it.

22 CHAIRMAN GRIFFON: Well, there's

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1 levels of comfort. Are you fairly comfortable?

2 Okay.

3 MEMBER MUNN: Oh, you think so?

4 MR. HINNEFELD: It'll take me just a
5 minute because I've got to clear a couple of
6 things out here.

7 CHAIRMAN GRIFFON: Well all right,
8 what I'm going to say is let's take a five --
9 let's keep this one short because we just got
10 off for lunch really, but take a five-minute
11 break, let Stu forward these over, and we'll
12 be right back.

13 MS. BEHLING: Stu, can you include
14 me on the email?

15 MR. HINNEFELD: That was Kathy?

16 MS. BEHLING: Yes.

17 MR. HINNEFELD: Kathy.

18 MS. BEHLING: You can send it to the
19 CDC account.

20 MR. HINNEFELD: Okay.

21 CHAIRMAN GRIFFON: Let's take a 10-
22 minute break and that way people can have a

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1 chance to look through this list of cases and
2 then when we come back from our break we'll
3 start doing our selection, you know, go
4 through it case by case and pick out ones we
5 think -- you know, we'll go through our
6 regular process of selecting, pre-selecting.

7 Ten after two we'll come back, all
8 right? Thank you.

9 MR. KATZ: Ten after, about, around
10 ten after.

11 (Whereupon the above-entitled
12 matter went off the record at 1:58 p.m. and
13 resumed at 2:15 p.m.)

14 MR. KATZ: Okay, this is the Dose
15 Reconstruction Subcommittee. We are just
16 reconvening after a short break.

17 CHAIRMAN GRIFFON: Okay and Mike and
18 David, are you guys on the phone?

19 MEMBER GIBSON: It's Mike. I'm here,
20 Mark.

21 CHAIRMAN GRIFFON: All right, did
22 you get the file?

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1 MEMBER GIBSON: Yes, I did get it.

2 CHAIRMAN GRIFFON: Okay.

3 MR. KATZ: You too, David?

4 CHAIRMAN GRIFFON: All right well
5 why don't we go ahead and start. I'm going to
6 assume David got it and again, this is the
7 pre-selection, so the process will be that we
8 will identify these, right Stu, and then
9 you'll give us additional information on them?

10 MR. HINNEFELD: Yes, I would like to
11 suggest that we maybe select more than what we
12 want to ultimately select --

13 CHAIRMAN GRIFFON: Well --

14 MR. HINNEFELD: Because when we get
15 the additional information --

16 CHAIRMAN GRIFFON: I think I'm
17 looking to select any case viable on here.

18 MR. HINNEFELD: Okay.

19 CHAIRMAN GRIFFON: You know there's
20 only a total of 50-something or whatever?

21 MR. HINNEFELD: There's 52 on here.

22 CHAIRMAN GRIFFON: So it's not that

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1 big a list, like sometimes you provide us a
2 lot more.

3 MR. HINNEFELD: Yes.

4 CHAIRMAN GRIFFON: So yes, let's
5 select as many as we can here.

6 MEMBER MUNN: And what are we aiming
7 for, ultimately? Total number?

8 MR. KATZ: Well, ultimately we are
9 aiming for about 30.

10 CHAIRMAN GRIFFON: Yes, usually we
11 do sets of 30, but we have varied on that a
12 little bit --

13 MEMBER MUNN: Just wanted to make
14 sure.

15 CHAIRMAN GRIFFON: Yes. So, I can
16 get the ball rolling and they go from low to
17 high PoC, obviously.

18 MEMBER MUNN: Well, let's ask the
19 other obvious questions also. What other
20 criteria are we -- do we have any specific
21 criteria we want to aim for?

22 MEMBER PRESLEY: Like a site that we

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1 haven't done.

2 CHAIRMAN GRIFFON: Yes, and I was
3 going to ask, as we go through --

4 I mean at the end, that's a good
5 question Wanda, at the end we might want to
6 look back. Paul had asked that question and I
7 didn't really get a chance to look at the
8 spreadsheet with the responses but some of
9 that asked about the other things, and maybe
10 if we asked for an expanded matrix, we can ask
11 for some of those factors that Paul had
12 brought up, you know --

13 MEMBER MUNN: I guess --

14 CHAIRMAN GRIFFON: as other
15 criteria, I mean --

16 MEMBER MUNN: My point is it's
17 really difficult for me to evaluate which of
18 these might be worth our delving into unless I
19 am clear at the outset what we really and
20 truly are establishing as our criteria for
21 looking at them. It -- you know we have done
22 decades, we have done the cross --

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1 CHAIRMAN GRIFFON: Right.

2 MEMBER CLAWSON: These are full
3 internals, all of them.

4 MR. HINNEFELD: Yes.

5 MEMBER MUNN: Yes.

6 CHAIRMAN GRIFFON: Yes.

7 MEMBER MUNN: These are all full.

8 CHAIRMAN GRIFFON: Well, they're all
9 described as full here. As we know that is not
10 necessarily --

11 MR. HINNEFELD: That's the button
12 pushed by the peer reviewer.

13 CHAIRMAN GRIFFON: Right. For
14 instance we know that when you say Simonds Saw
15 is full, it is a one size fits all model.

16 MR. HINNEFELD: It's the only
17 option.

18 CHAIRMAN GRIFFON: Right.

19 MEMBER PRESLEY: What I would like
20 to see us do is take something from about
21 where you start here at 232, which is 45 with
22 a PoC of 45.635 and put every one of those in

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1 there for review that goes up to 49.57.

2 DR. MAURO: I agree with that.

3 CHAIRMAN GRIFFON: I would almost
4 agree with that except for the fact that
5 there's several -- that may not even include
6 them Bob, so I may agree with that. No,
7 there's a couple at the end there, it's like
8 three Bethlehem Steels, although they are
9 really close to 50.

10 MEMBER PRESLEY: You get up that
11 close -

12 CHAIRMAN GRIFFON: 49.57, this is
13 Paul's pet peeve, how do you get that kind of
14 degree --

15 MEMBER PRESLEY: Yes.

16 MEMBER MUNN: Well, and besides,
17 it's one thing if you are talking about the
18 broad swipes, the overestimates and the
19 underestimates. It's a whole different thing
20 if you're talking about what is provided to
21 us.

22 MEMBER PRESLEY: I would like to

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1 know how in the world that something in Kansas
2 City can come out as a zero.

3 MR. KATZ: But when you're dealing
4 with a model like Bethlehem Steel, you are
5 going to get them coming out at any number.
6 It's still a machine.

7 MR. HINNEFELD: Yes.

8 MEMBER PRESLEY: Just so you know,
9 one guy goes to one point, one additional
10 place, and the next guy goes to two additional
11 places and that might be, instead of 49.57,
12 that might 49.6.

13 MEMBER MUNN: Or the next unit may
14 be zero.

15 MR. HINNEFELD: I think the last one
16 was listed on there by mistake. I clip these
17 out of a much longer list.

18 CHAIRMAN GRIFFON: Kansas City.

19 MR. HINNEFELD: Yes, yes. And we
20 selected the first, selected like 51 or so,
21 and I think I clipped one too many lines but I
22 clipped this out of a much longer spreadsheet

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1 and I clipped one too many lines I think.

2 CHAIRMAN GRIFFON: An interesting
3 one though.

4 MEMBER MUNN: Well, I guess, I'm
5 sorry to have started that discussion but I'm
6 still not clear -

7 CHAIRMAN GRIFFON: No that's all
8 right.

9 MEMBER MUNN: what needs to be our
10 criteria --

11 CHAIRMAN GRIFFON: I think the
12 criteria, at least for our pre-selection
13 Wanda, in my opinion, the criteria is the same
14 as we've always done, the one factor that I
15 would pay maybe a little more attention to
16 this time through is the data proved, which to
17 me would mean -- I would want to focus like
18 there's one Simonds Saw that was done
19 10/14/05. I would hope that we will, as Stu
20 has said many a times, let's look for more
21 current cases, yes because otherwise we are
22 going to see similar findings that we have

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1 seen in the past. Yes, so, if we were thinking
2 of moving the ball here, I would focus on
3 that.

4 But otherwise, you know, these are
5 -- a lot of these look reasonable.

6 MEMBER PRESLEY: You got one there
7 from Simonds Saw and you've got one from Y-12,
8 in that category.

9 CHAIRMAN GRIFFON: Well is it okay
10 if we just go by -- go through one by one,
11 remembering that this is a pre-selection and
12 if we -- when we get the full listing out,
13 next time we can still cut them off the list.
14 So I'm going to be more inclusive on this run-
15 through than -- and is the idea to do -- you
16 won't have this ready by next week?

17 MR. HINNEFELD: Not clear that we
18 will.

19 CHAIRMAN GRIFFON: All right.

20 MR. HINNEFELD: But we are trying to
21 figure out if we'll have it --

22 CHAIRMAN GRIFFON: Okay. The idea is

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1 if we can do that, we can do the full
2 selection at the full Board and that would
3 make SC&A happy.

4 MR. KATZ: That's the hope.

5 CHAIRMAN GRIFFON: Okay.

6 MR. HINNEFELD: Now one thing I
7 should probably mention here, on this pool, is
8 that we have been selecting cases for review
9 on a basis of uncertain set of criteria,
10 meaning it had to be ready for review, meaning
11 finally adjudicated. Well, it turns out we
12 don't necessarily know all the time when a
13 case is finally adjudicated. The site, the DOL
14 site offices don't necessarily send us the
15 file decision. So there were a number of cases
16 that had been done that we can't select.

17 After this, going forward, we are
18 going to select everything that as far as our
19 record is concerned, is at DOL. Then we will
20 take that selection list or maybe a pre-
21 selected list of them, give that to DOL and
22 say okay, which of these really are finally

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1 adjudicated. And then we would have a set.

2 So we have been drawing from an
3 incomplete set of incomplete piece of the
4 population when we've been drawing these. So
5 we can -- if we get another grab at another
6 selection process, it's not like we're going
7 to see 10 cases.

8 CHAIRMAN GRIFFON: Okay. All right,
9 so going down the first page I'm on, ID number
10 273, I would say to include that,
11 understanding that -- well let me ask this.
12 The Hooker model, I think there's a site model
13 for Hooker that we just covered, right?

14 DR. MAURO: The Site Profile and the
15 ER.

16 CHAIRMAN GRIFFON: But I'm not sure
17 that the -- this might predate what was done
18 in the model.

19 DR. MAURO: What date is that?

20 CHAIRMAN GRIFFON: This is 8/3/07,
21 that the reconstruction was done. So it might
22 have used some of those older TIBs. The

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1 question here might be, is this conservative
2 relative to the documents that are available
3 now. So I would argue to include that one.

4 The next one I have on the list is
5 the 446, I just skipped the American Bearing.
6 We have done American Bearing once I believe.
7 And this case was done in `04, so I skipped
8 that one. 446, any opinions on that?

9 MEMBER MUNN: That's Paducah. We
10 have plenty of Paducahs.

11 (Simultaneous speaking.)

12 CHAIRMAN GRIFFON: Well, yes. Yes,
13 it had -- it had the vast number of sites. I
14 guess that was the interest to me.

15 MS. BEHLING: Excuse me, Mark.

16 CHAIRMAN GRIFFON: Yes.

17 MS. BEHLING: I don't believe that
18 we have done an American Bearing as I am
19 looking down through the list.

20 CHAIRMAN GRIFFON: Oh, we haven't?

21 DR. MAURO: No, we haven't. I would
22 know that.

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1 MS. BEHLING: No.

2 CHAIRMAN GRIFFON: All right. So I
3 guess I would argue to include that. And then
4 I had the next two -- so the first three I've
5 checked.

6 MEMBER RICHARDSON: So, American
7 Bearing, I mean the one thing is, it was --
8 the review was done in 2004. Is that --?

9 CHAIRMAN GRIFFON: Yes, but we would
10 ask for a mini Site Profile and ask that -- if
11 there is a Site Profile. I don't even know if
12 it's a --

13 MR. HINNEFELD: I don't even know
14 how this was done.

15 CHAIRMAN GRIFFON: Right. I think
16 we have to raise that question David, that's
17 the --

18 MR. HINNEFELD: Chances are it was a
19 TIB-4, but --

20 CHAIRMAN GRIFFON: Yes, chances are
21 it's just a generic process, but -- I think we
22 would have, if there is any site matrix or

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1 Site Profile out there, we would ask SC&A to
2 delve into that.

3 DR. MAURO: Yes. I was just going to
4 ask. We haven't done this recently, since way
5 back. If there are any that you would like one
6 of these mini Site Profiles, like we did in
7 the eighth set --

8 CHAIRMAN GRIFFON: Right.

9 DR. MAURO: Please point them out to
10 us.

11 CHAIRMAN GRIFFON: Yes, I think we
12 may not know that until we see the case, you
13 know, so.

14 DR. MAURO: Sure.

15 CHAIRMAN GRIFFON: All right and
16 then refresh my memory on ElectroMet and
17 Harshaw, the next two.

18 MR. HINNEFELD: Electro
19 Metallurgical was also in the 6001 --

20 DR. MAURO: We're actively reviewing
21 this as a -- well this is an SC&A. It's in the
22 -- we're actively reviewing this with the 6001

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1 Work Group as we speak, the Site Profile and
2 the ER. As far as cases go, I think I do
3 recall doing a case.

4 MR. HINNEFELD: I can't recall if we
5 did, Kathy do you know that?

6 MS. BEHLING: We did one case.

7 CHAIRMAN GRIFFON: Okay, so I can go
8 either way on that one. I think it's a one
9 size fits all model I believe.

10 MR. HINNEFELD: I believe it is,
11 yes.

12 CHAIRMAN GRIFFON: So I would say we
13 don't necessarily have to do another one. I
14 would leave that off the list. The next one I
15 have is 092 Y-12. I skipped the Simonds Saw
16 ones because I am pretty sure we did a Simonds
17 Saw.

18 DR. MAURO: Yes, we did two, I
19 remember.

20 MEMBER CLAWSON: There's a Pantex.

21 CHAIRMAN GRIFFON: Oh, Pantex. I
22 didn't see that one. Iowa and Pantex.

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1 MEMBER CLAWSON: And Pantex. The
2 reason why I'm saying that is that we've got
3 over 40 years in --

4 CHAIRMAN GRIFFON: Yes.

5 MEMBER CLAWSON: And this would
6 bring into it -- I'd just like to see that one
7 if I could.

8 CHAIRMAN GRIFFON: Okay. All right,
9 130, let's add on the list. Then 092 is the Y-
10 12 plant. And did we do Alcoa?

11 DR. MAURO: Yes, I just finished
12 one.

13 CHAIRMAN GRIFFON: Yes, do I don't -
14 - I imagine that's a one size fits all.

15 DR. MAURO: Yes.

16 DR. ULSH, So, 92 is in?

17 CHAIRMAN GRIFFON: Yes, unless --

18 DR. ULSH: 663 is out, then?

19 CHAIRMAN GRIFFON: Right.

20 DR. ULSH: Okay.

21 MEMBER MUNN: Even thought it's one
22 of the more recent ones we have?

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1 CHAIRMAN GRIFFON: It is one of the
2 more recent ones, I noticed that too.

3 DR. MAURO: Alcoa 1, that's the
4 Pennsylvania one, right? There's an Alcoa 1,
5 there's an Alcoa 2. I forget --

6 CHAIRMAN GRIFFON: Yes. I don't know
7 which is which.

8 DR. MAURO: Yes.

9 MEMBER PRESLEY: I think you're
10 right.

11 CHAIRMAN GRIFFON: Do you know which
12 one you did before?

13 DR. MAURO: Pennsylvania, I forget
14 if it was one or two. I just finished it.

15 CHAIRMAN GRIFFON: Okay.

16 MS. BEHLING: It was one.

17 DR. MAURO: It was one?

18 MR. HINNEFELD: It was one?

19 DR. MAURO: Thanks Kathy.

20 CHAIRMAN GRIFFON: Then the last one

21 --

22 MEMBER MUNN: Interesting work

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1 decade on that.

2 MR. HINNEFELD: Some of these AWEs,
3 they refer to --

4 CHAIRMAN GRIFFON: Thirty? Yes, I
5 know --

6 MR. HINNEFELD: The day they started
7 working at that company.

8 CHAIRMAN GRIFFON: Right.

9 MR. HINNEFELD: And then the dose
10 reconstruction starts when that company got
11 the AEC contract.

12 CHAIRMAN GRIFFON: Yes.

13 MR. HINNEFELD: So I mean the actual
14 dose reconstruction period is going to be
15 whatever the covered period was for that site.

16 CHAIRMAN GRIFFON: Right.

17 DR. ULSH: So, 92 is in, 63 is out?

18 DR. MAURO: There's one thing -- I'm
19 sorry -- it's a rough process. One of the
20 dimensions of this thing that has recently
21 become important is the use of surrogate data.
22 In other words, many of these AWEs depend on

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1 surrogate data and only recently have we been
2 looking at it -- now we would do the review as
3 we normally would but now we are starting to
4 ask the question, okay, the way they applied
5 surrogate data for this Site Profile in this
6 case, does it meet the new surrogate data
7 criteria, the plausibility, timeliness and all
8 that sort of thing. So that has been something
9 that we are doing now that we never did
10 before.

11 I've just been reminded. So and I
12 know Alcoa was one of them where they ended up
13 using Christifano & Harris as a surrogate data
14 source for -- and I don't know whether that's
15 important to the --

16 CHAIRMAN GRIFFON: Well I think it's
17 important but if you've covered it in one case
18 --

19 DR. MAURO: And I did cover it, I --
20 yes, I --

21 CHAIRMAN GRIFFON: It's going to be
22 the same for all of them.

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1 DR. MAURO: Yes, and it will, but I
2 just --

3 CHAIRMAN GRIFFON: Right. No, good
4 idea and I actually jotted that down. That
5 might be something -- I'm not sure how easy
6 that is for NIOSH to tease out in the next set
7 of extra information --

8 DR. MAURO: I can help with that. I
9 wrote --

10 CHAIRMAN GRIFFON: If we asked them
11 for is. Is surrogate used or not, you know.

12 DR. MAURO: I made a table up about
13 six months ago --

14 CHAIRMAN GRIFFON: Oh yes, you did.

15 DR. MAURO: With every single, every
16 single site --

17 CHAIRMAN GRIFFON: That's right. So
18 it shouldn't be --

19 DR. MAURO: Which ones have
20 surrogate and what and I could email that to
21 everyone.

22 CHAIRMAN GRIFFON: That would be

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1 useful, yes.

2 MR. KATZ: Everyone has that
3 already, right?

4 DR. MAURO: You probably -- oh you
5 do? But if you want me to resend it.

6 CHAIRMAN GRIFFON: They do -- but I
7 think it might be worth resending. All right.
8 Then I picked 572 but I could go either one on
9 this one. The main reason I picked this one
10 was it was in a more recent case.

11 MEMBER MUNN: So are we doing 653?

12 CHAIRMAN GRIFFON: I skipped 653.

13 MEMBER MUNN: Okay.

14 CHAIRMAN GRIFFON: 572, I'm
15 including. It's the three plants but also it's
16 a fairly recent reconstruction. All right? So
17 that gives one, two, three, four, five, six on
18 that page.

19 MR. KATZ: I only have five.

20 CHAIRMAN GRIFFON: I added on 130.
21 Did you get that one?

22 MR. KATZ: Oh, yes. I have 130.

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1 DR. MAURO: Could you give us the
2 first page, could you just run down real
3 quick?

4 CHAIRMAN GRIFFON: I got 273, 036 --

5 MR. KATZ: Oh I missed that. Okay.

6 CHAIRMAN GRIFFON: 446, 130, 092 and
7 572.

8 MEMBER CLAWSON: Yes, I hadn't heard
9 of that one.

10 CHAIRMAN GRIFFON: Yes, I don't know
11 if we've done DuPont Deepwater.

12 DR. MAURO: Yes, we are in the
13 middle of doing a Site Profile -- this is one
14 of the ones we sort of postponed --

15 CHAIRMAN GRIFFON: Right.

16 DR. MAURO: Site Profile review, but
17 I did do a case, at least one case. Kathy
18 probably knows. I think we just did one case.

19 MS. BEHLING: Just one, yes.

20 CHAIRMAN GRIFFON: I don't see a
21 need. It's two years of experience. I think if
22 we have the one case.

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1 MEMBER MUNN: That was one of the
2 things, when I was looking over this very
3 quickly, one of the things that I chose to do
4 was look at very short employment, anybody
5 that had five or less years of employment, I
6 looked at to try to ascertain in my own mind
7 why in the world would you have an almost 37
8 percent PoC? How does somebody who has been
9 employed some place for a couple of years?
10 That's a very high PoC for a very short period
11 of time.

12 It turns out, as I looked down all
13 these things, virtually all of those are lung,
14 almost every single one of them.

15 DR. MAURO: And it's probably
16 surrogate data where they assigned some very -
17 -

18 CHAIRMAN GRIFFON: Very
19 conservative, yes.

20 MEMBER MUNN: But it seemed to me
21 worthwhile as another criteria, as a different
22 criteria, than one that we have used in the

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1 past. It's odd that someone with short
2 exposure time supposedly and significant PoCs.

3 CHAIRMAN GRIFFON: So you want to
4 include Deepwater or others? There's other
5 ones, I don't know if you want --

6 MEMBER PRESLEY: Yes, there's
7 another one down there. I keep talking about
8 it but I wish somebody would bring it up and
9 look at it. 07.

10 CHAIRMAN GRIFFON: I have that one
11 checked. I do have that one checked and that's
12 a short period as well.

13 MEMBER MUNN: So do I.

14 CHAIRMAN GRIFFON: But I would still
15 argue to skip Deepwater unless you really want
16 to -- do you want to add it, or? All right.
17 But we will keep that in mind.

18 MEMBER CLAWSON: I had never heard
19 of it and I was just wondering if it was
20 something else.

21 CHAIRMAN GRIFFON: Yes. The net one
22 we've heard of, Blockson Chemical. I don't

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1 know that --

2 MEMBER MUNN: I see that from time
3 to time.

4 CHAIRMAN GRIFFON: I don't know that
5 we need to do another case on that.

6 MR. HINNEFELD: That'll be, it looks
7 like an SEC claim now.

8 CHAIRMAN GRIFFON: Yes, that is what
9 I was wondering too, and General Steel we have
10 done at least one.

11 DR. MAURO: Several.

12 CHAIRMAN GRIFFON: So I would say
13 skip those. The next -- for some reason I did
14 check one of those, oh, only because of the
15 date it was done but the model should be the
16 same. That was 614 I'm looking at.

17 MEMBER PRESLEY: I was going to say,
18 that's -- you got two different types of
19 cancer there in two different areas.

20 MR. HINNEFELD: That's actually one
21 cancer --

22 MEMBER PRESLEY: Oh, is that one?

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1 MR. HINNEFELD: That's one cancer
2 model, lymphoma and multiple myeloma cancer
3 model.

4 CHAIRMAN GRIFFON: But it does have
5 Dow added with General Steel and we've often
6 covered those together anyway. But have you
7 done Dow Chemicals? I know we've done --

8 DR. MAURO: Oh, no, oh that's very
9 much on our front burner in terms of the Site
10 Profile SEC.

11 CHAIRMAN GRIFFON: Have you done a
12 case?

13 MS. BEHLING: No, we have not done
14 any Dow cases.

15 CHAIRMAN GRIFFON: Right. So -

16 MEMBER CLAWSON: Let's do that one.

17 CHAIRMAN GRIFFON: I think we should
18 add that one on, 614. As a matter of fact I
19 think we were asked if we had done any Dow
20 cases at one point by the petitioner, yes.

21 MS. BEHLING: Yes, we were.

22 CHAIRMAN GRIFFON: Yes. Okay. Next

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1 one I have is 107 as was mentioned. Short time
2 period. It was actually done very early on,
3 though, that's my -- the only possible
4 hesitation there. I don't know what people
5 think about that.

6 Okay we will leave it in then, at
7 least for this, again, we are triaging here. I
8 have the next one in, 481. And I have 566.
9 They are both, well, fairly recent
10 reconstruction. And then W.R. Grace I had a
11 question on, I think we have done this one
12 Katy?

13 MS. BEHLING: We have done one W.R.
14 Grace, yes.

15 CHAIRMAN GRIFFON: One W.R. Grace.

16 DR. MAURO: We have a case in front
17 of us right now that we are working on. Did we
18 do one earlier or is this the one you are
19 referring to, the one we have right --

20 MS. BEHLING: It's the one we are
21 working on right now, that's the only one.

22 DR. MAURO: Okay, we have got this -

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1 - right now there's an active one.

2 CHAIRMAN GRIFFON: It is a site, it
3 is a one size fits all kind of model though or
4 --?

5 DR. MAURO: Haven't looked at it
6 yet.

7 MS. BEHLING: It has a Site Profile
8 or an exposure matrix so --

9 MR. HINNEFELD: W.R. Grace is now
10 Nuclear Fuel Services, Erwin, Tennessee and we
11 have got exposure records for them.

12 CHAIRMAN GRIFFON: Oh.

13 DR. ULSH: It's an unusual cancer,
14 too.

15 DR. MAURO: Nervous system.

16 MEMBER MUNN: That's what I was
17 thinking before.

18 CHAIRMAN GRIFFON: Well then we
19 might -- are you using exposure records to
20 reconstruct?

21 MR. HINNEFELD: We better be.

22 CHAIRMAN GRIFFON: I guess you'd

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1 better be, if you've got them, yes, yes.

2 MR. SIEBERT: Yes, we are.

3 CHAIRMAN GRIFFON: Okay, and this
4 was done in `09, do you think that would have
5 included the use of -- Scott?

6 MR. SIEBERT: I don't see why it
7 would not have.

8 CHAIRMAN GRIFFON: Okay. Okay. So
9 maybe we should include it. 564, add that. So
10 that's five on that page.

11 MEMBER MUNN: I of course checked
12 316.

13 CHAIRMAN GRIFFON: On the next page?
14 I was just going to say, the next page I've
15 checked everything except number 83, Superior
16 Steel. But I'm not sure, in relooking at them,
17 I'd like to drop a few off.

18 MEMBER PRESLEY: Well let me ask you
19 something. Look down there at 485, the thyroid
20 from Nevada Test Site?

21 CHAIRMAN GRIFFON: Yes.

22 MEMBER PRESLEY: How many cases are

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1 we seeing on that particular type of cancer?

2 Is that --

3 MEMBER MUNN: Not a whole lot.

4 MEMBER PRESLEY: That's what I was
5 going to say.

6 MR. HINNEFELD: Yes, I can -- I
7 think I can tell you here and now.

8 CHAIRMAN GRIFFON: I have that
9 checked as well.

10 MEMBER PRESLEY: Yes.

11 MEMBER MUNN: Here's the other
12 DuPont Deepwater.

13 CHAIRMAN GRIFFON: Well I'm
14 proposing to add everything except number 83
15 on that page. So if -- but if you want to drop
16 any off, I mean --

17 MEMBER PRESLEY: Do we need
18 Deepwater back in there again? We dropped it
19 off once before.

20 CHAIRMAN GRIFFON: Oh yes,
21 Deepwater, you're right. No, I think we should
22 drop off Deepwater, right? And probably

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1 Simonds too don't you think, Simonds Saw and
2 Steel lung, it's the same model. So I revise
3 my statement.

4 Let me read down what I have now.
5 I'm sorry. I was trying to be a little more
6 efficient and came out less efficient. Okay, I
7 have 313, Hanford case, 316, Savannah River,
8 479, which is an X-10 case, 54, which is an
9 Iowa case, done in '04 but it's a bladder
10 cancer, right? It's not a -- yes. Then 630,
11 which is a Hanford, 485, Nevada Test Site and
12 424, Blockson.

13 MR. HINNEFELD: Bob, to your
14 question, we have done four claims where a
15 thyroid was the cancer when it had a single,
16 there was just the one cancer on the claim. We
17 have done one other claim where thyroid was on
18 where there was multiple cancers on the claim.

19 MEMBER MUNN: Not a whole lot.

20 MR. HINNEFELD: Yes, that Blockson
21 case will be in the SEC, I mean we still look
22 at the dose reconstruction.

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1 DR. MAURO: Same goes for NTS.

2 MR. HINNEFELD: Yes. The NTS thyroid
3 will be in the SEC as well.

4 CHAIRMAN GRIFFON: Oh I'm sorry,
5 okay then, drop those off the list if --

6 MR. HINNEFELD: Both the NTS and the
7 Blockson so that's 485 and 424. Is that what
8 you want to do?

9 MEMBER MUNN: Yes. That's what he
10 said.

11 CHAIRMAN GRIFFON: Yes.

12 MEMBER MUNN: Take them off.

13 CHAIRMAN GRIFFON: NTS is off. And
14 424 is off. Okay. So then I must have five on
15 that page, right?

16 MEMBER MUNN: Yes.

17 CHAIRMAN GRIFFON: All right. Okay,
18 then the next one I have is, I wasn't sure
19 about this, this is a question mark, Allied
20 Chemical. This is one of those, Wanda, that
21 caught my eye just like yours, 0.5 years.

22 MEMBER MUNN: Yes, half a year --

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1 CHAIRMAN GRIFFON: Right. It's skin
2 cancer. That's why, probably multiple skin, is
3 my guess.

4 MEMBER MUNN: Yes, it is.

5 CHAIRMAN GRIFFON: Yes.

6 MEMBER MUNN: Melanoma, basal cell -

7 - CHAIRMAN GRIFFON: Right.

8 MR. HINNEFELD: That's also a place
9 where we get exposure records from. We get
10 exposure.

11 DR. MAURO: Yes, we didn't want to
12 wait. It's a complex one.

13 CHAIRMAN GRIFFON: Okay. Let's leave
14 it in, just out of uniqueness and it's a new
15 case. Next one is Westinghouse Nuclear Fuels
16 Division. Have we done Westinghouse? I don't
17 think so.

18 DR. MAURO: Kathy, do you know if we
19 did any Westinghouse?

20 MS. BEHLING: Let me look here. One.

21 DR. MAURO: We did one.

22 MS. BEHLING: I think we are

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1 probably working on that right now.

2 DR. MAURO: Okay.

3 MS. BEHLING: Westinghouse Nuclear
4 Fuels Division, yes.

5 CHAIRMAN GRIFFON: I'll leave it in
6 for now. We can --

7 DR. ULSH: Is that an SEC site? I
8 don't recall.

9 MR. HINNEFELD: I don't recall if it
10 is or not. One Westinghouse is and one isn't.

11 CHAIRMAN GRIFFON: We can follow up
12 on these --

13 MR. HINNEFELD: We can figure it
14 out.

15 CHAIRMAN GRIFFON: at the full
16 meeting, yes. Yes.

17 MR. HINNEFELD: We can figure it
18 out.

19 CHAIRMAN GRIFFON: Okay, let's see.
20 Next one I had -- I did have this Portsmouth
21 one listed, it's a skin cancer, 44 percent. I
22 could go either way on that one.

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1 DR. MAURO: This is one of those
2 that we are continually struggling with in
3 terms of as a particle settling on the skin,
4 you know.

5 CHAIRMAN GRIFFON: Yes, yes.

6 DR. MAURO: That's what's going to -
7 - of course because it's skin cancer it is not
8 covered by the SEC. But the question is,
9 assigned 44, that is probably based on, my
10 guess is film badge data --

11 CHAIRMAN GRIFFON: And multiple
12 cancers probably.

13 DR. MAURO: Yes. And the only thing
14 that would make it something of interest to
15 the group is that it may turn out that if you
16 were to assume that, let's say, uranium
17 particle fell on -- if it turns out on, let's
18 say, the neck, or I don't know -- whenever we
19 see a person with skin cancer on the hand, the
20 face or the neck, we always raise -- and it's
21 at a site where there's potential for
22 particulate settling, I always say well

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1 listen, what are you going to do here? This is
2 a global issue.

3 CHAIRMAN GRIFFON: Right.

4 DR. MAURO: This is a global issue,
5 what do you want to -- that's probably just
6 going to emerge out of this review, a global
7 issue is going to come up.

8 CHAIRMAN GRIFFON: Yes. Let's leave
9 it on the list for now.

10 Okay. 545, Savannah River, another
11 lung case on Savannah River, but these
12 Savannah River cases have proved to be very
13 interesting as we have reviewed them, and we
14 are not -- I remember a presentation in July
15 that when I looked over our overall estimates
16 of where we want to be for percentages for the
17 sites and this is a big site with a lot of
18 claims and we're not -- we're not quite there
19 --

20 DR. MAURO: Not there.

21 CHAIRMAN GRIFFON: Even though we
22 seem like we are doing tons of Savannah River

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1 cases.

2 MR. KATZ: The 13th set, you added a
3 lot, though. There were a lot of Savannahs in
4 the 13th set I think.

5 CHAIRMAN GRIFFON: I think you're
6 right, so. Well, we can consider that with the
7 full Board as well and maybe I'll try to
8 update those projections too for the meeting,
9 by next week. Yes, right. Okay. I'm skipping
10 that one and then Rocky Flats, my question
11 was, does this fall on the SEC, other
12 respiratory, is that not --

13 MR. HINNEFELD: If you leave out the
14 respiratory, all is compensated, I think
15 everything's compensated until you get to
16 Mound.

17 CHAIRMAN GRIFFON: Right. So it
18 should be SEC, right, this one?

19 DR. ULSH: Well, it's in the SEC
20 time period, it's an SEC cancer, but --

21 MR. HINNEFELD: But may not be
22 neutron exposed.

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1 DR. MAURO: I'm sorry, it may not be

2 -

3 MR. HINNEFELD: Neutron exposed.

4 CHAIRMAN GRIFFON: Neutron exposed.

5 DR. MAURO: And that would be --

6 CHAIRMAN GRIFFON: And that would be
7 the final hurdle with DOL.

8 Well, let's leave it on for now and
9 that will prompt me to bring up that topic
10 with DOL at the full meeting. That's 528, yes.

11 I guess the next one I had is 666.

12 MEMBER MUNN: Oh.

13 DR. MAURO: Ominous.

14 DR. ULSH: Skip that one.

15 (Laughter.)

16 DR. MAURO: Ominous.

17 MEMBER CLAWSON: We will never do
18 it.

19 MR. KATZ: It's like the 13th floor.

20 MR. HINNEFELD: You'll pardon me if
21 we're not surprised.

22 DR. MAURO: Everybody saw "The

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1 Omen," right?

2 CHAIRMAN GRIFFON: Right. You need
3 your own building.

4 CHAIRMAN GRIFFON: Okay, last page,
5 well last page and a couple --

6 DR. ULSH: Wait, 666 is in or not?

7 CHAIRMAN GRIFFON: Yes.

8 MR. KATZ: Despite our worries.

9 CHAIRMAN GRIFFON: Despite our
10 worries, yes.

11 MS. BEHLING: It is in, right?

12 CHAIRMAN GRIFFON: Yes.

13 CHAIRMAN GRIFFON: I put 643 in. I
14 know it's a skin but it's at the Pacific
15 Proving Ground in Nevada Test Site. It's the
16 sort of non-SEC Nevada Test Site.

17 DR. MAURO: And Pacific Proving
18 Ground.

19 CHAIRMAN GRIFFON: And then the same
20 thing for the next one, Rocky Flats, non-SEC
21 sort of reconstruction.

22 MEMBER PRESLEY: Argonne?

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1 CHAIRMAN GRIFFON: Same, Argonne
2 East, I don't --

3 DR. MAURO: We never did -- I don't
4 think -- did we ever do an Argonne East Kathy?
5 I don't think so.

6 MS. BEHLING: Yes, one.

7 DR. MAURO: We did do one, okay.

8 MS. BEHLING: Two.

9 DR. MAURO: Two? There you go,. You
10 know what, I didn't do it, so I don't
11 remember.

12 CHAIRMAN GRIFFON: It's not all
13 about you, John.

14 DR. MAURO: It's not all about me.

15 CHAIRMAN GRIFFON: All right, I'm
16 going to include 581 anyway. I don't think
17 that's the one size fits all model is it,
18 Kathy?

19 MS. BEHLING: I don't think so, no.

20 MR. HINNEFELD: We get exposure
21 histories from -

22 CHAIRMAN GRIFFON: Right, right. So.

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1 MEMBER MUNN: It's just Idaho.

2 MEMBER CLAWSON: No, that's Chicago.

3 MR. HINNEFELD: She's in Chicago.

4

5 CHAIRMAN GRIFFON: Idaho is east for
6 Wanda. 591, Mound, I included it, this one
7 caught my eye with the more recent
8 reconstruction date also. I skipped the
9 Bethlehem.

10 DR. MAURO: 1930?

11 CHAIRMAN GRIFFON: I took the next
12 Mound also.

13 MR. HINNEFELD: Their hire date.

14 DR. MAURO: Well, that goes back.

15 CHAIRMAN GRIFFON: So, the next -- I
16 skipped the 567. I put in 604, Mound lung
17 reconstructed in '09. Skipping the next two
18 Bethlehems. The last one I have is 106,
19 Portsmouth. It's skin but it was fairly
20 compensable. And that's where I left it with
21 one more question, which is do we do these
22 next two. I'm pretty sure we did Bliss &

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1 Laughlin, didn't we?

2 We did the Reduction Pilot Plant?

3 MR. HINNEFELD: That's Huntington
4 Pilot Plant.

5 CHAIRMAN GRIFFON: Oh it is
6 Huntington, okay.

7 DR. MAURO: Yes, I don't know --
8 right, this is Huntington --

9 CHAIRMAN GRIFFON: Then did we do
10 Grand Junction?

11 MEMBER CLAWSON: Grand Junction is
12 the one that kind of got me -- look at that,
13 years there, 1.2 years.

14 CHAIRMAN GRIFFON: Yes.

15 MS. BEHLING: We've done two Grand
16 Junctions. But I don't believe we have done
17 Bliss & Laughlin.

18 CHAIRMAN GRIFFON: Oh, I thought we
19 had.

20 DR. MAURO: We have a Site Profile
21 review. I don't remember a case.

22 CHAIRMAN GRIFFON: Maybe that's what

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1 I'm remembering.

2 DR. MAURO: Yes.

3 CHAIRMAN GRIFFON: Is it under the
4 southern --

5 DR. MAURO: 6001, exactly.

6 CHAIRMAN GRIFFON: Yes, that's what
7 I'm remembering.

8 DR. MAURO: We just finished it.

9 CHAIRMAN GRIFFON: So I mean maybe
10 we should do the Bliss & Laughlin then, 423.

11 MEMBER PRESLEY: I'm going to be
12 honest with you. I'd like to see that 246 for
13 Bethlehem Steel. If you round that off, it's
14 50 -- 49.57.

15 MR. HINNEFELD: It'll be paid under
16 the SEC anyway.

17 MEMBER PRESLEY: Will it? Okay.

18 MR. HINNEFELD: The lung at
19 Bethlehem Steel, it's SEC.

20 MEMBER PRESLEY: Okay.

21 CHAIRMAN GRIFFON: Yes.

22 MEMBER PRESLEY: Okay.

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1 MEMBER MUNN: So, what was the
2 decision about 105 and 131?

3 CHAIRMAN GRIFFON: I was going to
4 not put 105 in or 131 because Kathy said we
5 did a couple of Grand Junctions and also the
6 Huntington Pilot Plant we have done.

7 MEMBER MUNN: So Grand Junction, you
8 noticed, that's another one of those --

9 CHAIRMAN GRIFFON: Yes.

10 MEMBER MUNN: Fairly new --

11 CHAIRMAN GRIFFON: Right. Let's do
12 it. You're right, because that's a -- yes, how
13 conservative is conservative enough, right?

14 MEMBER MUNN: Yes.

15 MR. HINNEFELD: I suspect that's the
16 radon there. That would take a whole lot of
17 radon.

18 CHAIRMAN GRIFFON: Yes.

19 MR. KATZ: Is that on there then?

20 CHAIRMAN GRIFFON: So, let me see,
21 yes. I've got -- let me count, six and five,
22 one, two, three, four -- 30 exactly. I've got

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1 30 on the nose assuming we don't cut any. But
2 I think that's the best we can do with this
3 list. And if we lose a few we will still be
4 close to the 30, you know? All right.
5 Everybody good with that? Okay.

6 Moving on, let's cover this one
7 item that Ted was mentioning to me, the PER
8 12, the case tasking, I guess is what we have
9 to do, right?

10 MR. KATZ: Yes.

11 CHAIRMAN GRIFFON: So, go ahead.

12 MR. KATZ: So, it's high-fired and
13 we have traded these emails. Hans originally
14 had hoped to do the case selection. He got
15 into the system and realized he didn't have
16 the wherewithal to be able to do that on his
17 own independently, so I forwarded that finding
18 from Hans along back to DCAS, to Brant and
19 Stu, and we discussed this at a break here.
20 They are going to then do the selection. If
21 you need Hans's help at some point to
22 understand his matrix of cases or what have

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1 you, then just by all means get in touch with
2 him directly, and consult with him so you can
3 do the selection.

4 MR. HINNEFELD: So we just make a
5 selection of sets and -

6 MR. KATZ: So you want a selection
7 of sets larger than the -- larger than you
8 will need.

9 MR. HINNEFELD: Okay.

10 MR. KATZ: So that then the DR
11 Subcommittee at the next meeting can make that
12 selection. And this is --

13 CHAIRMAN GRIFFON: Let me ask for a
14 clarification. Why did -- Kathy or I don't
15 know if Hans is on the line, but why couldn't
16 SC&A do this or -

17 MR. HINNEFELD: It has to do with
18 kinds of information you need to know about
19 the case in order to make the selection.

20 CHAIRMAN GRIFFON: Okay.

21 MR. HINNEFELD: And --

22 CHAIRMAN GRIFFON: And it wasn't

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1 accessible to them, or -

2 MR. HINNEFELD: It's probably not
3 clear to them. If it's electronically
4 available it's not clear to them how to do it.

5 CHAIRMAN GRIFFON: Okay, okay.

6 MR. HINNEFELD: And if it's -- and
7 it may not be electronically accessible in all
8 cases so it may involve looking at the claims.
9 I have to go back and look at it.

10 CHAIRMAN GRIFFON: All right, all
11 right, all right.

12 MR. HINNEFELD: We know a lot of
13 things electronically about these but we don't
14 necessarily try to get people to understand
15 them. I would send it down to TST and say
16 based on these parameters, pick these
17 populations for me and they could do it, not
18 like I could do it sitting it at my desk and
19 so --

20 CHAIRMAN GRIFFON: No, I'm just
21 thinking of the independence factor, that if
22 we -- I don't want to be --

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1 MR. HINNEFELD: Fairly long --

2 CHAIRMAN GRIFFON: NIOSH -

3 (Simultaneous speaking.)

4 MR. KATZ: No, but they'll be
5 pulling a pool and then this --

6 CHAIRMAN GRIFFON: I think it's okay
7 I just wanted to --

8 MR. KATZ: The Subcommittee will
9 make choices and this is one where I don't
10 think it needs to go to the full Board. This
11 is something that can be done independently by
12 the Subcommittee.

13 MS. BEHLING: Excuse me Mark.

14 CHAIRMAN GRIFFON: Yes.

15 MS. BEHLING: This is Kathy Behling.
16 I believe that the reason we weren't able to
17 select these cases is because we needed to
18 know if these individuals had urinalysis
19 samples, or if they were lung counts, or how
20 some of the internal bioassay was assessed and
21 we couldn't necessarily pick that out by just
22 scanning on NOCTS. We would have had to

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1 actually go into the various records and I
2 thought that perhaps NIOSH could do this a lot
3 quicker than we could.

4 MR. HINNEFELD: I think we probably
5 can. It may not be on our side, but I think
6 ORAU has some stuff that might be able to help
7 and at any rate, it's more our thing than
8 theirs, to be honest, to get a pool --

9 CHAIRMAN GRIFFON: Yes, yes.

10 MR. HINNEFELD: To make those
11 selections you need a pool.

12 CHAIRMAN GRIFFON: I think it's
13 fine, I just was thinking about the
14 independence factor, so -- but I think it's
15 fine as long as you get a larger pool and then
16 we can select from that pool. Okay. All right.
17 So that's done. There's no --

18 MR. KATZ: And that'll be on our
19 agenda for the next meeting, then.

20 CHAIRMAN GRIFFON: Okay.

21 MR. HINNEFELD: It's in the -- Tom
22 has actually specified how many we've used in

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1 each category. We just need to pull more than
2 that. We could pull -- we could pull
3 everything that fits that category. I think we
4 could. If we had to do a manual search we may
5 not do that, but I don't think we have to do a
6 manual search.

7 CHAIRMAN GRIFFON: All right. And
8 then I had really two more items on the
9 agenda. One is the ninth matrix and the other
10 is the item that David Richardson brought up
11 earlier which is sort of the question of maybe
12 reassess where we're at with this dose
13 reconstruction effort and what are we aiming
14 to get out this and, one thing I emailed David
15 during the break and I think one thing I would
16 like an opportunity to do is go back to our
17 original scope document. I don't know when we
18 developed this, Wanda might have a
19 recollection, but I think Mike was -- Mike and
20 Bob and Wanda and I -- were the ones that were
21 on the committee at the time, where we looked
22 at the scope of the dose reconstruction effort

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1 compared to the statute and the regulation.

2 So one thing I would offer, I mean
3 we can discuss a little bit now, if people
4 have opinions, but I can also pull that scope
5 back out and ask -- put some question points
6 on it to prompt a discussion at our next
7 meeting. If you have particular issues now,
8 I'd be happy to make a note of them, but I'd
9 like to pull that out and sort of resurrect it
10 and say where does it stand, what are we
11 doing, and --

12 MEMBER MUNN: It might be worthwhile
13 especially in view of the fact that the
14 statute has changed at least twice since then.

15 MR. KATZ: But not on that point.

16 MEMBER MUNN: I don't believe it's
17 changed on that point though I haven't
18 actually --

19 CHAIRMAN GRIFFON: No. Right.

20 MR. KATZ: Well I could tell you
21 that it has not changed --

22 CHAIRMAN GRIFFON: It hasn't changed

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1 on that, right.

2 MR. KATZ: With regard to dose
3 reconstructions.

4 CHAIRMAN GRIFFON: Okay.

5 DR. ULSH: What did you call that,
6 Mark? That document you are talking about, did
7 you --

8 CHAIRMAN GRIFFON: Oh, it was a -- I
9 forget exactly what it was titled but it was
10 the dose reconstruction review scope, so it
11 was our Board scoping document that we
12 developed and it talked about well, amongst
13 other things, we had sort of this concept of
14 basic, advanced and blind reviews and now --
15 so we might want to reflect back on that
16 because obviously we haven't stuck to that. We
17 have sort of all -- yes, they have sort of --
18 the case speaks to you and you sort of know
19 what level you have to do for each different
20 case I think, and so we haven't stuck always
21 to these sort of principles of basic and
22 advanced, but anyway.

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1 DR. MAURO: Well, just the thought
2 is that -- I think when it began, when we got
3 involved, it was really trying to get a cross-
4 section so that we see how dose
5 reconstructions are being done across all
6 these different characteristics, including
7 types of cancer, decades, et cetera et cetera,
8 which is still valid.

9 But what's happening now is that we
10 finished -- we reviewed all the procedures. I
11 don't even know if there are -- there may be
12 new ones coming out but we reviewed over about
13 105, maybe more, procedures. We have reviewed
14 just about every Site Profile and so what do
15 we have in front of us now? We have a review
16 of over 300 cases with who knows how many
17 findings, some of which are quality findings,
18 some of them are pointers for some procedures.
19 We also have all these Site Profile reviews,
20 all these SECs.

21 What I'm getting at is, I think
22 they all point to each other. In other words

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1 what we learn on this dose reconstruction, and
2 we are only doing one percent, remember, so we
3 are only doing one percent, there is 30,000,
4 so 300? Yes, we are exactly at one percent.

5 So the idea is -- I guess what I'm
6 putting on the table is, given that we are
7 dealing with -- we always thought about them
8 as separate.

9 CHAIRMAN GRIFFON: We also projected
10 for 2-1/2 percent.

11 DR. MAURO: Oh yes. Yes. But I mean
12 that was a number, it's a number you pick.

13 CHAIRMAN GRIFFON: Yes.

14 DR. MAURO: But we always looked at
15 oh, we are going to do dose reconstruction
16 orders. That was a separate task, almost like
17 its own world and there was a procedure
18 review, which was its own world, and the Site
19 Profile review, which even was its own world
20 and of course now we have the SEC, where there
21 is definitely a blend between Site Profile and
22 SEC.

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1 I guess I'm thinking out loud now,
2 but there are pointers. Like when we see
3 something here that says well, if this has to
4 do with OTIB-17, something like that, or this
5 particular thing has to do with a Site Profile
6 issue as opposed to a quality issue, is there
7 are any linkages that we should be thinking
8 about between what we learn in our DR review
9 and how that -- does that tell us anything
10 about the procedure?

11 I mean I'm trying to create
12 linkages now that really haven't talked about
13 before. Are these different activities that
14 are going on separately, should we be stepping
15 back and see how they link together and how
16 they may feed back and forth to each other to
17 --

18 I think Richard brought it up
19 earlier. Let's say -- whether we have a
20 finding from a DR review or we have a finding
21 from a procedure review, and we start to
22 transfer things, but you know the real big

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1 question is, listen, we are only looking at
2 one percent, what kind of ripple effect can
3 this have, that is if we found this on this
4 one case which feeds back to a particular
5 procedure that's being affected, I guess your
6 PER program looks at that all the time. I'm
7 not sure the degree to which -- whenever we
8 have a finding on this end, does it -- how
9 does it -- and you decide whether or not you
10 may want to redo this case or not, but it also
11 triggers a PER process for us?

12 MR. HINNEFELD: Well, it would
13 depend on whether the finding led to change in
14 guiding documents.

15 If the finding is such that in
16 resolution we said okay, this procedure or
17 this Site Profile needs to be revised in this
18 fashion, then ultimately that revision to that
19 procedure or technical document would be what
20 would trigger the PER and so it may be --

21 DR. MAURO: And that would bring it
22 back to do all the cases.

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1 MR. HINNEFELD: And it may be that
2 it may get grouped with other, similar type of
3 -- so you do one PER and see what's the impact
4 of all these changes. Because you kind of have
5 to do all the changes at one time.

6 DR. MAURO: So really when all is
7 said and done, it's the PER process that
8 really is the glue that integrates everything.

9 MR. HINNEFELD: That pulls findings
10 back, yes, into -- I mean that's -- well, I
11 don't want to oversell the PER process. The
12 PER process takes the outcomes today, the
13 technical discussions today and applies them
14 to things that were done before them, so I
15 don't want to kind of oversell the integration
16 nature of, how much does it integrate a
17 procedure review or a Site Profile review and
18 a DR review, those sets of information, I
19 don't want to oversell that, but they should -
20 - but the endpoint, to the extent that any of
21 those change guiding documents, things that
22 tell us how to dose reconstruction, they

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1 should all go back in to the PER process, but
2 I don't know there's any particular
3 integration process.

4 DR. MAURO: Well, built into the
5 program, what is the thing that inherently is
6 self-correcting, that is if there is something
7 that has been done in the past, that needs to
8 fixed, it's the PER process that catches it,
9 and feeds back and corrects it.

10 MR. HINNEFELD: Yes, that's what is
11 supposed to happen.

12 DR. MAURO: Right. And maybe -- I
13 think the machinery then is in place.

14 MR. HINNEFELD: I mean it could be
15 that there are things kicking around in here
16 that need to go elsewhere that are going to
17 have impact on Procedures that we may just go
18 do, that the Procedures Group wouldn't
19 necessarily know about, you know. There's that
20 thing which would then be not an integrated
21 effort. If the finding in here would say such
22 and such a procedure needs to be changed or

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1 such and such a technical information, both of
2 them, TIB needs to be changed, and we reach
3 resolution to change it, then that may proceed
4 independently of the procedures review portion
5 of the Board knowing anything about it.

6 DR. MAURO: The reason I --

7 CHAIRMAN GRIFFON: One thing -- yes.

8 DR. MAURO: One last point and then
9 I'll -- see I think that this report here,
10 it's a loop you've created here, so okay, we
11 found some quality problems, and we tried to
12 capture them and it was done mainly I guess
13 through the 100 case review report, here are
14 some of the quality problems we observed, but
15 and I think that's certainly one side of the
16 coin. It's very important. Here are the
17 quality problems that need to be fixed and
18 here's what we are going to do to fix them.

19 But there's this other part that I
20 think that is equally important to this --
21 what are the other problems that are counting
22 down, systemic, that is where -- what we find

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1 out from this Subcommittee is feeding back and
2 driving the Site Profiles, driving the
3 procedures, just like -- this is going to feed
4 back and drive your QA. Do we have any way in
5 which the Subcommittee is feeding back and
6 informing Procedures when they transfer? Are
7 we actually trying to go through all the --
8 from the point of view -- is there a way to
9 call out?

10 CHAIRMAN GRIFFON: Well don't forget
11 about the way we sort of try to call out is in
12 the summary reports and there's more than just
13 the QA things in that summary report. We
14 talked about the dose reconstruction report.
15 We talked about the show your work kind of
16 principles.

17 DR. MAURO: Yes, show your work,
18 yes.

19 CHAIRMAN GRIFFON: Now I don't know
20 that we have ever systematically gone back and
21 demonstrated to what extent NIOSH -

22 DR. MAURO: Speaks to us.

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1 CHAIRMAN GRIFFON: Has implemented
2 those recommendations. That's one question.
3 But I mean I would think the important thing
4 for us to be able to do as a Board is to make
5 recommendations to improve the system if we
6 think it needs it think the first step for the
7 QA side quite frankly is to better understand
8 the system. I mean, you can't really make
9 recommendations to something that I'm not
10 exactly familiar with how it works currently
11 and so -- but I think that's where we could
12 maybe add value at this point, is, as we sort
13 of -- we see at lot of similar types of
14 findings, but when we start to think of them
15 in aggregate, there's a fair number of ones
16 that fall into certain bins and so we say to
17 ourselves well, there's something that needs
18 to be fixed and I think that we need to better
19 understand the system to know if we can
20 recommend a fix.

21 DR. MAURO: But that's from a
22 quality point of view.

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1 CHAIRMAN GRIFFON: Yes, that's the
2 quality, but there's other things you are
3 asking, yes. David, do you have any comments
4 on this? I mean we don't have to -- this is
5 going to -- I think this is a discussion that
6 we can continue at our next Subcommittee and
7 maybe look to refine or propose to refine our
8 scope of our reviews, you know refine it based
9 on what we have learned over several years and
10 bring it back to the Board for approval or
11 whatever, you know.

12 MEMBER RICHARDSON: Yes, I think
13 that makes sense. I think it would be, as you
14 suggested, useful to figure out what the scope
15 of work is for this committee and then to move
16 forward with the discussion from there. In
17 addition to kind of understanding the quality
18 assurance and kind of data collection
19 procedures for NIOSH, I still, I would also be
20 interested in a description of the internal
21 processes. I mean, this Board should not be --
22 I wouldn't think this Board should or this

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1 Subcommittee of the Board should have
2 responsibility for kind of the quality
3 assurance parts of the dose reconstruction
4 process. I would expect that there is an
5 internal process going on as well.

6 CHAIRMAN GRIFFON: Right. Right.

7 MEMBER RICHARDSON: So that would be
8 useful to understand a document as well as the
9 kind of data collection process.

10 CHAIRMAN GRIFFON: Yes, I think what
11 I meant to present on how the system works, it
12 was all the way from data entry and what the
13 dose reconstruction does to what the quality
14 assurance steps are, the peer reviews, the et
15 cetera, so all aspects of it. I agree.

16 MEMBER RICHARDSON: Great.

17 CHAIRMAN GRIFFON: Anything else, I
18 mean, this will be an evolving discussion and
19 David, I don't even know if you have seen the
20 original scope. I don't think I have looked at
21 it in probably three or four years, so I think
22 that would be my first step, is to sort of

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1 pull that document out, circulate it with
2 maybe some comments that I have included in it
3 and then just bring it back to the
4 Subcommittee for discussion, more discussion
5 and possible modification.

6 MEMBER RICHARDSON: That sounds
7 great.

8 CHAIRMAN GRIFFON: All right.
9 Anybody else? Brad?

10 MEMBER CLAWSON: No, I was just
11 going to say I think we need to understand the
12 process a little bit.

13 CHAIRMAN GRIFFON: Yes I think it's
14 worth revisiting especially when sitting in
15 the wings for several years so. All right.
16 It's 3:10. Ready for the ninth set? Can we get
17 all the way through them in one and a half
18 hours? What are people's time limits?

19 MR. FARVER: I don't know that we
20 have anything to add to the ninth set.

21 CHAIRMAN GRIFFON: Okay.

22 MR. FARVER: I didn't look at it

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1 because I didn't know that we would be looking
2 at it for this meeting.

3 CHAIRMAN GRIFFON: Right, right,
4 right.

5 MR. HINNEFELD: Well, I mean we
6 could perhaps talk about what we said. We said
7 some things, right?

8 MR. FARVER: There's a lot of
9 written NIOSH responses in there. I just
10 skimmed through what I had.

11 CHAIRMAN GRIFFON: Okay. Do you want
12 to -- well let me ask first, what are people's
13 time frames for flights or anything, is there
14 limits?

15 MEMBER MUNN: We're scheduled until
16 5, aren't we?

17 CHAIRMAN GRIFFON: I think -- yes,
18 we are scheduled from 7:30 to 5 so we started
19 a little late.

20 MEMBER MUNN: That was the room.

21 CHAIRMAN GRIFFON: Okay. I was going
22 to say let's try to go to 4:30 because as is

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1 always the case in these meetings, especially
2 the temperature in here is increasing --

3 MR. HINNEFELD: Can we have a little
4 break first?

5 CHAIRMAN GRIFFON: All right. Let's
6 take a 10-minute break and then we'll start on
7 matrix nine and basically get initial
8 description from NIOSH. We're not expecting --
9 but at least they can describe what they
10 included in --

11 MEMBER RICHARDSON: Is that
12 something that can be circulated?

13 CHAIRMAN GRIFFON: The ninth set,
14 can we -- has that been cleared?

15 MR. KATZ: That would have been
16 circulated a while ago if you have that done.

17 DR. ULSH: It would have been April
18 or August, 2009.

19 MR. KATZ: Right, in August, that
20 would have been circulated to the -- why don't
21 you check your --

22 CHAIRMAN GRIFFON: But he may not --

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1 MEMBER RICHARDSON: I'm not sure I
2 was on the list then.

3 MR. KATZ: Yes, yes, that's right.
4 It may have missed you, David.

5 DR. MAURO: So you see right now we
6 have a matrix that has each of the issues in
7 mind that we have developed and you have
8 partial responses to some of those issues --
9 they exist right now. We haven't come back
10 yet. But it certainly would be valuable to
11 hear the -- we may be able to resolve them
12 right here. I mean let's see what the answers
13 are.

14 CHAIRMAN GRIFFON: The responses --
15 you don't do things on the fly, right John?

16 DR. MAURO: I do.

17 CHAIRMAN GRIFFON: Can I ask the
18 name of the file, Stu, that you are working
19 from?

20 MR. HINNEFELD: Sure, you can ask.

21 MR. KATZ: If you find it, can you -
22 - do these have Privacy Act material or can

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1 you send it to David?

2 MR. HINNEFELD: These essentially
3 never have --

4 MR. KATZ: Okay.

5 MR. HINNEFELD: A Privacy Act -

6 MR. KATZ: So if you could send them
7 -- if you find it, you could send it to David,
8 then he could follow along.

9 MR. HINNEFELD: Yes, okay. If I find
10 it.

11 CHAIRMAN GRIFFON: All right, David,
12 well we are going to take a 10-minute break.
13 we'll email you. Check your email. We will
14 send this file to you.

15 MEMBER RICHARDSON: Great. Thank
16 you.

17 CHAIRMAN GRIFFON: Mike, do you have
18 it or -

19 MR. KATZ: He should. He would be --
20 everybody -

21 MEMBER GIBSON: I have it Mark.

22 CHAIRMAN GRIFFON: All right, Mike's

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1 got it. I have something that says -- we are
2 going to -- let's adjourn for now.

3 (Whereupon, the above-entitled
4 matter went off the record at 3:11 p.m. and
5 resumed at 3:23 p.m.)

6 CHAIRMAN GRIFFON: Okay, like I
7 said, this will probably be a -- because SC&A
8 is really, wasn't prepared to discuss these
9 items, so it's going to be more of a -- mostly
10 overview of NIOSH's initial responses and then
11 we will go from there but at least we can
12 plunge forward.

13 MR. KATZ: Yes, and John and Doug
14 may be able to knock some of the low-hanging
15 fruit off.

16 CHAIRMAN GRIFFON: Right, right,
17 right. If they're obvious, we can take care of
18 it, yes. Okay, so 179.1, .2. Do you want to
19 just discuss the ones that -- just the ones
20 where you have some feedback, right, so 179.2.
21 Maybe as a starting point if you can give us
22 the site and the -- yes.

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1 MR. FARVER: Ashland Oil.

2 CHAIRMAN GRIFFON: Ashland Oil?

3 MR. HINNEFELD: So it's an AWE site.
4 Ashland Oil, that's I believe, in fact I think
5 it's now an SEC site if I'm not mistaken. No,
6 Standard Oil, sorry, Standard Oil. Ashland Oil
7 is not. The finding had to do with not using
8 PFG photofluorography for the medical X-rays
9 and our response is that our going in approach
10 is that we use photofluorography at the DOE
11 sites where they have large numbers of people
12 at the clinic and they turn them over really
13 quick and we haven't reached that same
14 conclusion at all the main AWE sites. So
15 that's our response so far.

16 DR. MAURO: This -- we're very
17 familiar with this, and this comes up every
18 time we do an AWE. It's always in there,
19 because your default was always an X-ray, a
20 chest X-ray.

21 MR. HINNEFELD: Yes.

22 DR. MAURO: And I guess this is a

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1 judgment that you folks need to make, is that
2 are you looking for affirmative evidence? See,
3 with the way in which OTIB-6 and 61 read, at
4 least in the case of DOE, it's really silent
5 on AWEs but it is affirmative on DOE. Before a
6 certain date unless you know otherwise,
7 definitely, presume it's a PFG. Now, you're
8 silent in those same documents with respect to
9 AWEs. And I can understand why, because AWEs,
10 you have a contract, unless the contract calls
11 for -- this is the way I was thinking about it
12 -- so am I correct in saying, if the contract
13 called for X-rays and/or PFGs, you would then
14 apply the DOE philosophy, that is we are going
15 to assign PFG if you don't know any better.

16 I mean, I'm trying to get to
17 understand this. Automatically I think you
18 always assume it's X-ray. You always give
19 that. You give that. But you don't
20 automatically assume it's PFG -

21 MR. HINNEFELD: Yes.

22 DR. MAURO: and it seems to me the

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1 distinction is why?

2 MR. HINNEFELD: Well, it had to do
3 with some research that was done, and I'm not
4 real familiar with it, but it had to do with
5 standard X-ray practices at the time and that
6 most clinics that were giving X-rays were
7 using chest X-rays and that the
8 photofluorography units were brought in from
9 places to do a large number of them in a quick
10 period of time -

11 DR. MAURO: So DOE was unique in
12 that regard.

13 MR. HINNEFELD: DOE, we felt like --

14 DR. MAURO: They wanted it. They
15 asked for it.

16 MR. HINNEFELD: They did a whole
17 bunch of them. This was a way to do a lot of
18 them quickly and so they did photofluorography
19 and AWE is more likely actually if they have a
20 clinic on -- if they have a medical facility
21 on site, they just have an X-ray unit as
22 opposed to photofluorography. That's the

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1 thought process. I don't -- I'm not familiar
2 with the research --

3 DR. MAURO: Okay that's very
4 helpful. Because that's the reason I say that,
5 I mean, that's just something we talk around
6 the table and I could -- I just presume that's
7 probably the case. But I always bring up that
8 finding, every time.

9 DR. ULSH: Well, and I think the
10 main -- a common use of PFGs, since they are
11 mobile units, was for TB screening and that's
12 why they brought them on site, to run all the
13 employees through. Now if you think of an AWE,
14 and I don't know if there's a typical one, but
15 frequently they are small operations.

16 DR. MAURO: Yes.

17 DR. ULSH: And it wouldn't be
18 justified to bring screening on site like that
19 for a few people. But I mean, if we do have
20 affirmative evidence that --

21 DR. MAURO: Then you do it.

22 DR. ULSH: Of course. But that's not

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1 the default assumption.

2 DR. MAURO: I mean as far as this
3 issue being resolved, the degree to which I
4 think that statement could be made even on a
5 generic basis in OTIB-6 or in 61, or be stated
6 in the Site Profile for an AWE site, which it
7 really isn't. We made the judgment that at
8 this facility, PFG was not either required --
9 in other words the degree to which you could
10 say that -- then we could sort of -- then we
11 could sort of -- then we don't have to put
12 this comment forward. Because right now --

13 CHAIRMAN GRIFFON: Can I -

14 DR. MAURO: Do you see the --

15 CHAIRMAN GRIFFON: Can I propose an
16 action?

17 DR. MAURO: Yes.

18 CHAIRMAN GRIFFON: NIOSH will
19 provide the background study information that
20 indicated that the standard chest X-ray was
21 the practice of the time. If acceptable to
22 SC&A and the Subcommittee. NIOSH will modify

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1 TIB-6 to reflect this as a standard practice
2 in the dose reconstructions. In other words,
3 Stu said there's background information, he's
4 not sure what it is, I think we need to just
5 get a better flavor -- yes, okay, we see how
6 you are supporting this.

7 DR. MAURO: We just resolved one of
8 your comments.

9 MEMBER MUNN: Yes, TIB-6 seems to be
10 the appropriate place --

11 CHAIRMAN GRIFFON: Assuming we all
12 agree with that then you just modify TIB-6.

13 MEMBER MUNN: That's the right place
14 for it to go. Otherwise you have to lay your
15 hands over each TBD that you've got.

16 MR. KATZ: I think this was
17 discussed, this very same discussion occurred
18 during the TBD-6001 Work Group last week, in
19 reference -- we just had this discussion --
20 yes we did -- to one of the AWEs covered their
21 Hooker or whichever -- we had this exact same
22 discussion and the same I think recommendation

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1 was made there so this is fine, but I think we
2 may have already gotten a sort of tasking for
3 DCAS on this in that Work Group.

4 DR. MAURO: So does this transfer to
5 --

6 MR. KATZ: This is fine, it's just a
7 double hitter.

8 CHAIRMAN GRIFFON: Yes, it might be
9 a little redundant, but yes.

10 MR. KATZ: It's not hurting
11 anything. It's fine.

12 DR. MAURO: OTIB-6?

13 CHAIRMAN GRIFFON: Yes. Okay.

14 MR. HINNEFELD: Okay. Next one we
15 have a comment on or response on --

16 CHAIRMAN GRIFFON: This is 180.1.

17 MR. HINNEFELD: 180.1.

18 CHAIRMAN GRIFFON: What's this site?

19 MR. SIEBERT: Bridgeport Brass.

20 CHAIRMAN GRIFFON: Hold on. 180.1.

21 MR. FARVER: Oh, I had 181.

22 CHAIRMAN GRIFFON: Oh, okay. So it's

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1 Bridgeport Brass. Okay.

2 MR. HINNEFELD: Okay. The finding is
3 reviewer questions accuracy of the employment
4 period identified by NIOSH/DOL and our
5 response is that we don't identify the
6 employment period that's identified by DOL.
7 Apparently there is some comment, maybe from
8 the employer, that they have transferred to
9 another site, to another AWE site and so DOL
10 didn't have that information. I presume we
11 sent that information to DOL for them to see
12 if they could verify it, so that would be for
13 us to follow up and make sure that we did
14 that.

15 Because normally when someone tells
16 us that like in an interview or if we get
17 information along those lines we say well, we
18 tell them first of all, you need to get
19 information about that to DOL and then we also
20 will let the DOL know. But our telling DOL
21 that the claimant told us that is not going to
22 change it. And DOL will take no action because

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1 we told them that. It's incumbent on the
2 claimant to get the information to DOL in
3 order to get the employment changed and we
4 tell them that too.

5 CHAIRMAN GRIFFON: Doug or John, I
6 don't know if you want to --

7 DR. MAURO: Well that's not --
8 that's not a Site Profile issue. That
9 basically is an issue dealing with this
10 particular case.

11 CHAIRMAN GRIFFON: It's a case
12 specific.

13 DR. MAURO: It's very case specific
14 and it's almost not in your hands so you are
15 just passing on information.

16 MR. HINNEFELD: When people tell us
17 that we say we'll tell DOL but you need to
18 tell them and to give them the information
19 because they won't -- just because we tell
20 them you said it, that's not going to change
21 anything.

22 CHAIRMAN GRIFFON: Well is there any

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1 indication in this case though that NIOSH did
2 identify it and relay it to DOL? I don't know
3 the issue.

4 MR. HINNEFELD: I don't know if we
5 would capture that or not.

6 CHAIRMAN GRIFFON: Right okay.

7 MR. HINNEFELD: There might be.
8 Let's see. We can look for evidence of having
9 done that but --

10 CHAIRMAN GRIFFON: I mean, not fully
11 understanding, from the summary so it's hard
12 to --

13 MR. FARVER: Yes I don't understand
14 what exactly prompted the finding. The only
15 statement in there is that the worker may have
16 continued working at the Seymour facility.

17 DR. ULSH: It might have been CATI.
18 I don't know.

19 DR. MAURO: It could have been CATI.
20 Yes.

21 MR. FARVER: But there's nothing
22 down there in the CATI section of our report.

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1 CHAIRMAN GRIFFON: Well, I mean I
2 guess I would -- I don't want to be hastily --
3 I mean we don't do anything hasty, but I think
4 SC&A should look at it closer and --

5 DR. MAURO: Well I mean we made a
6 finding that the time period over which you
7 have derived this fellow's dose needed to be
8 compatible with what we know to be his
9 employment period, or believe to be his
10 employment period, right, is that what the
11 issue us?

12 CHAIRMAN GRIFFON: Well, there's
13 actually just a suspicion.

14 DR. MAURO: A suspicion.

15 CHAIRMAN GRIFFON: Not even a
16 belief, there's a suspicion about it.

17 DR. MAURO: I mean it will be in the
18 write-up, the basis for it, I'll have to look
19 at it.

20 MR. SIEBERT: There seems to be an
21 incongruity between the worker's period of
22 employment at Havens Laboratory and the

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1 operational period of the laboratory. The
2 worker may have continued working at the
3 Seymour facility. In any event this worker was
4 employed at the Havens Laboratory during the
5 entire time period the facility was involved
6 in experimental uranium work. As a result of
7 the worker's employment at the plant, the
8 worker may have experienced external and
9 internal exposures from working with and in
10 the vicinity of uranium and thorium.

11 CHAIRMAN GRIFFON: Oh, so that's not
12 a DOL question, is it? Isn't that a question
13 of the amount of time you applied to the dose
14 reconstruction? Doesn't that seem to be --

15 MR. HINNEFELD: I couldn't tell from
16 that what it was.

17 CHAIRMAN GRIFFON: I know.

18 MR. FARVER: It's not clear.

19 MEMBER MUNN: It's still a DOL
20 question. DOL has to identify whether this
21 person did or did not transfer to another AWE
22 and what the total period of employment was.

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1 MR. SIEBERT: Right. The claim was
2 assessed with the employment as given to us by
3 DOL.

4 CHAIRMAN GRIFFON: Okay. Okay. Yes.

5 DR. ULSH: I mean, I agree that if
6 we thought that there should be additional
7 information then we should tell DOL. But we
8 can't -- that's not a DR finding. I mean we
9 did the DR in accordance with the employment
10 information provided by DOL.

11 DR. MAURO: I could --

12 CHAIRMAN GRIFFON: No but I think it
13 should have triggered at least NIOSH to
14 inquire with DOL.

15 DR. ULSH: I understand and it might
16 and we can check on that, but that's not in
17 and of itself, that's not a deficiency. Even
18 if we didn't do that, that's not a deficiency
19 with the DR. We have to do the DR with the
20 employment information that DOL gave us.

21 MR. HINNEFELD: See, there were
22 things in this claim file that should tell us

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1 a little bit about what the claimant said
2 about the employment and one is their
3 application to the program, the original claim
4 that they filed, they list their facility,
5 they covered where they did their work at,
6 it's listed on their claim and then
7 theoretically there was a telephone call that
8 said, that asked among other things is this
9 the actual employment.

10 So I mean we'll see, we'll go back
11 and look but there should be some evidence
12 somewhere of where this came from, and I
13 couldn't read from the finding whether --
14 there's more discussion after the statement of
15 the finding so it might be there, but it
16 didn't really understand from that exactly why
17 they felt like there was as reason to question
18 them.

19 DR. MAURO: He could have left that
20 facility at that time, went somewhere else
21 where he could have gotten some exposure there
22 also that may have been something. I think

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1 this is -- this rings a bell and therefore
2 there is some dose that this experienced not
3 while he was at Bridgeport Brass but
4 approximately after he left and went some
5 place else that wasn't captured, and that
6 would go towards his dose reconstruction that
7 should have been. I think that's the point.
8 Now, and if that's the case then maybe there's
9 something else that might have been missed.

10 MR. HINNEFELD: We'll go look and
11 see what we can sort out on it, but today we
12 are not --

13 CHAIRMAN GRIFFON: No, I'm not
14 asking that, I'm just trying to understand it
15 better. But I think SC&A should look back at
16 this one. I think both need to look back.

17 DR. MAURO: Okay.

18 CHAIRMAN GRIFFON: You know, review
19 this, because we need to understand what the
20 real basis was.

21 DR. MAURO: Doug, if you could keep
22 track of those and just kick it back to me,

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1 because that sounds like one that will come
2 back to me.

3 MR. FARVER: Oh yes, you are going
4 to get all the AWEs.

5 DR. MAURO: I'll pick them up in
6 there.

7 CHAIRMAN GRIFFON: Okay, the next
8 one we say anything about was 183.1 and the
9 finding is the model external photon dose
10 appear to be bounding but transparency is
11 lacking regarding calculational details in the
12 DR and in OTIB-4. So OTIB-4 is apparently what
13 was used, which is a complex-wide
14 overestimating for AWEs.

15 NIOSH agrees on the lack of clarity
16 in the OTIB on how the organ DCF were applied
17 to develop the dose in the dose table. NIOSH
18 agrees with SC&A that the dose is bounding.
19 The next version of the OTIB, which has been
20 issued, did not have the organ DCF already
21 built into the dose tables, dose
22 reconstruction is applied then to the values

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1 in this layer version.

2 So this issue has been addressed,
3 the issue being lack of clarity in the OTIB.
4 NIOSH does not agree that the organ selection
5 was unclear. The end of the second paragraph
6 of the dose reconstruction overview section
7 states the external dose to the kidney was
8 determined by using the dose to the liver,
9 following the guidance in OTIB-0005.

10 We can't say, I mean, I'm not
11 expecting a response.

12 CHAIRMAN GRIFFON: Right. Right.
13 Sounds like we've had something related to
14 this but -

15 MR. HINNEFELD: Okay, 183 --

16 CHAIRMAN GRIFFON: Yes we'll just
17 skip --

18 MR. HINNEFELD: Two is our golden
19 oldie, that yes, we agree, we screwed up.
20 Okay, 183.3 is the photofluorography AWE
21 question again. The same one we talked about
22 earlier.

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1 MR. FARVER: You could probably
2 close out 183.2. I mean there's not anything
3 more to do on that.

4 MR. HINNEFELD: Yes I mean
5 everything is done on .2 that we are going to
6 do.

7 CHAIRMAN GRIFFON: So give me a
8 closeout statement. What is it? It's NIOSH has
9 revised --

10 MR. HINNEFELD: Discontinued its
11 practice. I mean that's the using OTIB-4 for
12 compensable findings.

13 CHAIRMAN GRIFFON: Oh yes, yes, yes.
14 That's closed.

15 MR. HINNEFELD: Okay. 183.4. Dose
16 from external surface contamination may be
17 based on modeling assumptions that are not
18 claimant-favorable. We refer to this as a
19 global issue but I think we may want to take
20 another look at that because I think a lot of
21 this has been sorted out in TIB -- was that
22 TIB-70?

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1 DR. MAURO: So this is external
2 exposure to surface contamination?

3 MR. HINNEFELD: This is dose from
4 external surface contamination may be based on
5 modeling assumptions that are not claimant-
6 favorable. It doesn't say whether it's --

7 DR. MAURO: Okay, this is the
8 accumulation, this is the settling velocity.
9 We have resolved that.

10 MR. HINNEFELD: Resolved somewhere
11 else but we need to update our response.

12 DR. MAURO: That issue has been
13 resolved generically in our procedure -- OTIB
14 review of the -- I'm trying to remember -- the
15 one that has accumulation on the surfaces.
16 That might be TBD-6000.

17 Because this is where you have a
18 0.00075 meters per second settling down
19 accumulation and we had a question that you
20 really shouldn't do it that way but then you
21 proved it by showing Adley.

22 We did this as a generic -- this is

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1 an issue that will close out probably 20 or 30
2 findings just like that.

3 MR. HINNEFELD: So we are going to
4 change our response.

5 DR. MAURO: We've closed based on
6 global resolution. You may want to make
7 reference to David Allen's White Paper which
8 proved that that works. He put out a White
9 Paper on the subject.

10 CHAIRMAN GRIFFON: Yes, I remember
11 that. That's separate from the -- I was mildly
12 convinced. I happen to have the Adley report
13 with me.

14 DR. MAURO: I was surprised.

15 CHAIRMAN GRIFFON: Anyway.

16 MEMBER MUNN: Yes. We did it.

17 CHAIRMAN GRIFFON: You should check
18 to see if that's finding is closed in the
19 procedures. I don't think it's closed.

20 MEMBER MUNN: I don't think it was.

21 CHAIRMAN GRIFFON: I think there
22 might be a hold-out vote. I think I know who

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1 he is. No, maybe I went with that one. Maybe I
2 finally was convinced on that one.

3 MR. HINNEFELD: Okay, 185.2.

4 CHAIRMAN GRIFFON: Hold on, can I go
5 back to 183.3 I missed because I was trying to
6 catch up with --

7 MR. HINNEFELD: Okay. 183.3 is yes,
8 PFGs at AWEs -

9 CHAIRMAN GRIFFON: Oh, okay.

10 MR. HINNEFELD: 179.2.

11 CHAIRMAN GRIFFON: So bear with me.
12 I'm just going to copy that same -- okay.

13 And John, you think this 183.4, I
14 know the discussion, it was a trust enclosed
15 in TBD-6000 discussions or in the procedures?

16 MEMBER MUNN: I can't remember which
17 place we did it but we have a procedure. There
18 is a procedure in which this is specifically
19 addressed and quantified.

20 DR. MAURO: And we went through it
21 and a White Paper was written and I'm pretty
22 sure it was TBD-6000 and David Allen wrote a

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1 White Paper. Because my main -- I find it hard
2 to believe that the only way in which surfaces
3 could get contaminated at a uranium handling
4 facility is just from the small, five-micron
5 particle settling out of the air. I had this
6 model in my head that the guy was over there
7 with a lathe, and big particles are flying all
8 over the place, but it turns out, we went to
9 the Adley report, where they were doing all
10 that and we actually had deposition rates and
11 David did the calculations and we checked them
12 and they were right on target. In fact the way
13 in which you modeled that deposition velocity
14 resulted in a slight overestimate. So we -- I
15 was very surprised to tell you the truth. But
16 SC&A's recommendation is that issue is
17 resolved, whether or not it's still open, you
18 know, that's a different matter.

19 MEMBER MUNN: No, we have resolved
20 it.

21 DR. MAURO: We did resolve it. You
22 found it there?

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1 MEMBER MUNN: No. No.

2 CHAIRMAN GRIFFON: I think my
3 hesitation -- I might have finally given in on
4 that one, but my hesitation was the Adley
5 report was one -- it was this is all based on
6 one study in the -- late, early 50s.

7 DR. MAURO: 50s. It was done at the
8 uranium metal melt facility in Hanford where
9 they study the problem.

10 MEMBER MUNN: It was quite thorough.

11 CHAIRMAN GRIFFON: Again, that was
12 my hesitation. I might have given in. So I
13 would just say SC&A agrees then well, if Wanda
14 can sign that I could say closed in Procedures
15 Subcommittee and put the procedure number.
16 Let's move on while Wanda is looking for that.
17 183 -- no, no more in 183.

18 MR. HINNEFELD: I think the next one
19 is 185.2.

20 CHAIRMAN GRIFFON: Okay.

21 MR. HINNEFELD: The finding failed
22 to properly account for model photon doses.

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1 Our response is I think that SC&A do not
2 provide the details of the MCNP calculation
3 therefore NIOSH cannot comment on why there is
4 a difference in the calculated values.

5 DR. MAURO: Which site was this?

6 MR. FARVER: Huntington Pilot Plant.
7 Has to do with the enriched uranium in the
8 bird cage.

9 DR. MAURO: Oh, the bird cage model.
10 Yes, sure I remember that. Bob Anigstein made
11 a run, check your numbers, we did not get your
12 numbers.

13 CHAIRMAN GRIFFON: So can SC&A
14 provide you a calculation?

15 DR. MAURO: Let's mark that down,
16 we'll provide our -- just send them over,
17 we'll get to show you -

18 CHAIRMAN GRIFFON: That's an SC&A
19 action, to provide their --

20 DR. MAURO: Yes, I think we ended up
21 with a higher dose than you guys.

22 CHAIRMAN GRIFFON: All right. 185.5.

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1 MR. HINNEFELD: 185.5 is post-
2 operational intakes from ingestion were not
3 explicitly included in the dose
4 reconstruction. Our answer is, post-
5 operational intakes are covered in the
6 residual section. The TBD indicates that the
7 annual dose to the maximally exposed organ was
8 less than one millirem and therefore was not
9 included. When the ingestion intakes are run,
10 all the committed dose equivalents are less
11 than one millirem.

12 DR. MAURO: We'd have to look at
13 that.

14 MR. HINNEFELD: And we've got some
15 we didn't say anything about. Okay, we're up
16 to 186.1. The internal doses are likely to
17 have been understated. Now certainly there's
18 more to it than that. Our answer was the claim
19 was compensated based on the dose assigned so
20 there was no need to determine if additional
21 exposure may have occurred. So essentially, we
22 terminated the dose reconstructions because we

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1 had a compensable claim.

2 DR. MAURO: The only thing I would
3 say is that when you -- normally do the
4 calculation you would stop at that point and
5 compensate, but you may have included the dose
6 for whatever the pathway was and we reviewed
7 it because it was there and maybe had a
8 comment on it. When you cut the calculation
9 short, we are not critical. We don't say you
10 shouldn't have done this. But anyway so I'd
11 have to look at it.

12 MR. HINNEFELD: Yes take a look and
13 see and if there's more to it let us know.

14 MR. FARVER: It doesn't look like it
15 was cut short. It just looks like we didn't
16 agree with the way it was done.

17 DR. MAURO: Do you know what it was?

18 MR. FARVER: Linde Ceramics.

19 DR. MAURO: Oh, Linde -- from what
20 pathway? You can't tell? It wasn't a
21 resuspension factor issue?

22 MR. FARVER: Has to do with assumed

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1 dust exposure of 33 MAC may not have captured
2 the upper bound of the airborne dust exposure
3 at the Linde Site from 1947 onwards, so there
4 was a little disagreement in the air
5 concentration level, things like that.

6 CHAIRMAN GRIFFON: 187.3.

7 MEMBER RICHARDSON: Can I go back to
8 that? Are we closing that because it has no
9 impact on this dose reconstruction? It's a TBD
10 issue is it not?

11 MR. FARVER: We didn't close it, did
12 we?

13 DR. MAURO: Could I just point out
14 something? A lot has developed on the Site
15 Profile for Linde and the methods that you may
16 have employed at that time may be somewhat
17 different than what has been adopted because
18 you did make some revisions to the Linde way
19 in which you are calculating the doses I
20 believe.

21 MR. HINNEFELD: I think so.

22 DR. MAURO: And so --

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1 MR. HINNEFELD: It depends on what
2 time the claimant is from really.

3 DR. MAURO: We'd have to look at
4 that.

5 MR. HINNEFELD: Right, so we'd have
6 to look at that.

7 MEMBER RICHARDSON: My point is once
8 again, this is not a dose reconstruction
9 error. It was done correctly per the
10 information that was in the dose
11 reconstructor's hands at the time. If there's
12 an issue with the TBD that's been addressed or
13 so on and so forth, I still -- and this was
14 already compensated, I don't see where -- I
15 guess I don't see the purpose of leaving it
16 open. I mean that's --

17 MR. HINNEFELD: Without the issue
18 with the Site Profile remains open here
19 because those are things -- that's part of the
20 review. It's not only did we follow the
21 procedure but are the procedures or the
22 instructions for doing the dose reconstruction

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1 correct. That's part of all these DR reviews.
2 So that wouldn't close it. It might close
3 because of a compensable claim if you think it
4 should be higher.

5 DR. MAURO: Let me raise a dilemma
6 that SC&A has always had in doing our DR
7 reviews. When we review a DOE site, we review
8 it explicitly against your own procedures, did
9 you follow your procedures. And any findings
10 we might have related to your Site Profile, we
11 keep those separate. Okay, we just make a
12 list, here are the findings we had on your
13 Site Profile, Savannah River, and then the
14 review goes on to see if in fact you followed
15 your own procedures, whether or not we agree
16 with those procedures.

17 Now, for AWEs we don't do that
18 because AWEs are a different beast. They are
19 all based on the Site Profile, so we will have
20 findings. In DR review for an AWE facility,
21 that goes toward the Site Profile. It would be
22 a finding. So you are right, Scott, what you

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1 are saying is correct. Most -- just about
2 every AWE review that I do, it's basically a
3 comment on the Site Profile, when I do -- so
4 does that mean do we want to address it here?
5 Do you want to transfer it over? But there
6 isn't a Site Profile review. In other words,
7 there are an awful lot of exposure matrices
8 that we haven't reviewed, but I review them
9 when I do the case, so what else -- I mean
10 there's no place to have a finding.

11 MR. SIEBERT: No, no, I agree, I'm
12 backing off because I was thinking that there
13 was a Linde TBD review.

14 DR. MAURO: Oh there is.

15 MR. SIEBERT: And if there was not,
16 then I make no sense. Never mind.

17 DR. MAURO: But there is. There is a
18 Linde and what I'm -- all I'm trying to say is
19 that whenever I have an AWE site, I review
20 that including its Site Profile, and if there
21 are things in the Site Profile that I feel as
22 deficient, I will make that a finding and put

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1 it in. One could argue I should just simply
2 say this is a Site Profile issue but I don't,
3 because usually that's all there is. There are
4 no bioassay data. There's just the -- so. And
5 we have been arguing -- because then there are
6 no comments on any AWEs because they are all
7 based on some generic protocol laid out and
8 therefore the only thing there is, Site
9 Profile, but we are not reviewing the Site
10 Profiles. So where do you capture it?

11 Sometimes we do, sometimes we
12 don't.

13 CHAIRMAN GRIFFON: No. right, right.

14 DR. MAURO: So what do we do?

15 CHAIRMAN GRIFFON: I think this is
16 open in both regards. I see Doug -- I don't
17 know that we have consensus that SC&A agrees
18 that it was done right based on the data you
19 had.

20 MR. FARVER: I don't know. You
21 really have to go back and look at the cases.

22 CHAIRMAN GRIFFON: Yes. So I think

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1 we need to leave it open for both those
2 issues.

3 DR. MAURO: The question I have for
4 this group here though is, now that we have a
5 finding on a case for Linde. Should that --
6 whatever that issue is, it is, should that be
7 handled here or should that be handled in the
8 Linde which is meeting on Friday? The Linde
9 Work Group.

10 CHAIRMAN GRIFFON: Well I just said
11 that Doug is shaking his head when he said
12 that -- when he heard that it was done
13 correctly based on the data you had. I'm not
14 sure that you don't have more to look at. If
15 there's an existing Work Group, we've always
16 said defer the Site Profile issues to the Work
17 Group, if they're Site Profile issues.

18 DR. MAURO: In this case there is.

19 CHAIRMAN GRIFFON: There might be a
20 case question here.

21 MR. FARVER: There might be a case
22 question.

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1 MR. SIEBERT: I just want to point
2 out, the summary conclusions for this one,
3 from SC&A said, in general, SC&A found that
4 the dose reconstruction report followed NIOSH
5 policies and procedures and the calculations
6 were performed correctly.

7 Our review identified one issue
8 related to findings previously identified in
9 the TBD. This issue did not have a large
10 impact on the dose reconstruction for this
11 individual.

12 My issue of when I read the
13 conclusion it says there isn't a problem with
14 this. It was a TBD issue. And if I'm being a
15 pain, stop me.

16 CHAIRMAN GRIFFON: No, no, no I
17 think it's simple enough to answer though. I
18 think we can just say Doug find out. If that's
19 the case, if that's the case, and we'll just
20 refer it to the TBD group, or to the Work
21 Group.

22 MR. HINNEFELD: The answer today is

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1 that SC&A hasn't seen this thing --

2 CHAIRMAN GRIFFON: Right, right. I
3 don't want to do this on the fly and get it
4 wrong. That's all I'm saying Scott. If that's
5 right then we'll just refer it to the Linde
6 Work Group and it'll be out of this committee.

7 MR. SIEBERT: That's fine.

8 DR. MAURO: Just to put a period at
9 the end of it all, let's say it turns out that
10 the comment -- I'm sorry, I'm sorry --

11 CHAIRMAN GRIFFON: Let it go.

12 DR. MAURO: I can't let it go. If
13 the comment is on a case that is based upon an
14 exposure matrix that we have never reviewed
15 when it doesn't --

16 CHAIRMAN GRIFFON: That's different.

17 DR. MAURO: That's different. I
18 wanted to hear that. That's all. That's
19 different and then it is dealt with here.

20 CHAIRMAN GRIFFON: Right.

21 DR. MAURO: Good.

22 CHAIRMAN GRIFFON: That's what we

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1 said. That's what we have -- I've called mini
2 Site Profile reviews, if we have an existing
3 Work Group though looking at the Site Profile,
4 then we defer to that. That's sort of been
5 what we have --

6 DR. MAURO: Good.

7 CHAIRMAN GRIFFON: The policy, maybe
8 not written or spelled out but yes.

9 DR. MAURO: I just wanted to hear it
10 again, okay.

11 CHAIRMAN GRIFFON: Okay. 187.3.

12 MR. HINNEFELD: Okay, finding is
13 that there is no indication in NIOSH records
14 or the dose reconstruction report that the
15 EE's employment started in 1949 was
16 investigated or considered. Our response was
17 that DOL verified employment using social
18 security records beginning in 1950. Film badge
19 records were found for the employee in 1949.
20 So that year was added during the assessment.
21 There's no records for verifying before 1949
22 and besides that's a DOL thing anyway. So you

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1 guys can see what you think.

2 MR. FARVER: And this is based on
3 some information that was in the CATI report
4 apparently. The EE went into the military, and
5 on leaving the military returned to Vitro
6 Manufacturing Company in 1950. So that's where
7 the little -- that's what prompted the
8 finding.

9 So I don't know how you confirm or
10 invalidate something like that.

11 MR. HINNEFELD: We don't, if the DOL
12 doesn't verify the employment, we can't do
13 anything about it anyway.

14 CHAIRMAN GRIFFON: So the covered
15 period was prior to '49.

16 MR. HINNEFELD: This was, the
17 covered period started very early I think.

18 CHAIRMAN GRIFFON: Yes. But the
19 employment period was not back to the earliest
20 date of the covered period right, that was the
21 issue?

22 MR. HINNEFELD: And that was the way

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1 would read this.

2 CHAIRMAN GRIFFON: They are
3 questioning whether he was employed, he or she
4 was employed. Okay. And that again to me would
5 be a question of did NIOSH follow up with DOL
6 at all because I think from the claimant's
7 perspective, they just want, and I think we
8 all just want to get the right answer for the
9 claimant so you know, you can say well not my
10 job or you can at least say we'll we can't
11 define that but we can at least notify DOL.

12 MR. HINNEFELD: We can do as much as
13 we can do.

14 CHAIRMAN GRIFFON: Right, exactly,
15 and that's what I think we want to know, is
16 did NIOSH look at this enough to say yes, this
17 might be an issue and DOL needs to answer this
18 for us.

19 I would say the action would be for
20 NIOSH to determine whether any communication
21 with DOL was achieved or whatever.

22 That fair Stu?

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1 MR. HINNEFELD: Sure, I'll see what
2 we've got on it.

3 CHAIRMAN GRIFFON: Yes, yes.

4 MR. HINNEFELD: And just because
5 it's such a novelty I will mention that there
6 are now three cases in a row where there were
7 no findings. How did that happen?

8 CHAIRMAN GRIFFON: Oh wow, yes.

9 MR. FARVER: We were having a bad
10 day.

11 CHAIRMAN GRIFFON: They renumbered
12 them.

13 MR. HINNEFELD: Okay the next
14 finding is 192.1.

15 CHAIRMAN GRIFFON: 192.1 or 193?

16 MR. HINNEFELD: I got 192. The
17 finding is NIOSH underestimated the greater
18 than 15 keV electron shallow dose for 1955 and
19 our response is essentially you are right,
20 it's 60 millirem, it was submitted from data
21 entry and we have a slight increase in PoC of
22 this compensable case so it's not going to

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1 have any effect on the case.

2 CHAIRMAN GRIFFON: So I guess SC&A's
3 point would be this is a QA issue, right?

4 MR. HINNEFELD: Yes, I mean that's
5 what it involved.

6 CHAIRMAN GRIFFON: I assume you
7 would accept that right, yes, yes. No further
8 action.

9 MR. HINNEFELD: Well, specifically
10 it's going to get caught in our general
11 debate.

12 CHAIRMAN GRIFFON: Right.

13 MR. HINNEFELD: Next is 192.2.

14 CHAIRMAN GRIFFON: You threw me off
15 because you went with black font on these and
16 the other ones are in red. Is it that way on
17 your screen?

18 MR. HINNEFELD: You know what, I
19 have such a hard time seeing red because of my
20 color vision that I don't --

21 CHAIRMAN GRIFFON: Oh, okay.

22 MR. HINNEFELD: I put stuff in red

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1 for other people's benefits, not for my own.

2 CHAIRMAN GRIFFON: Right.

3 MR. HINNEFELD: 192.2, the finding
4 is basis for intakes not included in records.
5 Our response is the file translated input to
6 IREP included the results of the IMBA runs
7 performed in the bioassay results provided by
8 DOE. While, the 25 IMBA files were
9 inadvertently left out of the claim file, the
10 results can be recreated based on the file
11 identified above. So, I guess the finding was
12 that the IMBA records weren't there and the
13 response was that well, the IMBA files weren't
14 there but there's enough information in the
15 calculated input to IREP that you can tell
16 what was run on IMBA, apparently is what the
17 response is, so that's just for you guys to
18 evaluate if that's really true when you look
19 at it.

20 CHAIRMAN GRIFFON: Right. Is this --
21 I'm not sure if this is essentially a show the
22 work thing or --

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1 MR. HINNEFELD: I have -- well we
2 have to go back on this. There might be more
3 to the findings.

4 CHAIRMAN GRIFFON: Right, okay.

5 MR. FARVER: I believe what happened
6 was the IMBA runs were not included, as you
7 said, and therefore you could not verify the
8 intakes. They were calculated.

9 CHAIRMAN GRIFFON: Okay. So is there
10 an action on anybody's part? NIOSH -

11 MR. HINNEFELD: Well I mean --

12 CHAIRMAN GRIFFON: Do you provide
13 those?

14 MR. HINNEFELD: Well, I think SC&A
15 should look and see if the file that we saved,
16 you know there is a file there that says these
17 are the intakes.

18 DR. MAURO: There's enough
19 information for us to do that.

20 MR. HINNEFELD: And what the
21 response says was that file includes enough
22 information, and not only includes the intake,

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1 it includes what got us to the intake. Now I
2 don't know if that's true or not. That's what
3 we conclude from this.

4 CHAIRMAN GRIFFON: All right. All
5 right.

6 MR. HINNEFELD: If not then the IMBA
7 intakes presumably should be made available.

8 CHAIRMAN GRIFFON: Okay.

9 MR. FARVER: Well, in general,
10 should they be included in the record?

11 MR. HINNEFELD: Well I think that's
12 part of show your work, I think so although
13 there's 25 of them but I'm not exactly sure
14 what that means. Sounds like an intimidating
15 number of IMBA runs.

16 MR. FARVER: Yes.

17 MR. HINNEFELD: Sounds like this
18 thing took them like a month to do. But okay,
19 we'll go find out. For right now, I think it's
20 provide a response --

21 MR. FARVER: Sure, sure, these all
22 go back to me and we'll have responses by the

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1 next meeting I hope.

2 MR. HINNEFELD: Okay and here's an
3 observation we responded to. Observation
4 number 2. SC&A believes that NIOSH
5 overestimated the skin dose. Our response is
6 the entrance skin dose was assigned based in
7 insufficient information regarding the exact
8 location of the skin cancer of the scalp and
9 the position of the head during the X-ray
10 procedure. Project guidance at the time of the
11 evaluation indicated that entrance skin dose
12 was to be assigned. The assumed minimal
13 collimation of the X-ray beam was a factor in
14 making the claimant-favorable decision.

15 So apparently with a cancer on the
16 scalp, we used the entrance dose which would
17 mean that we considered it in the beam and the
18 observation was the head's not really in the
19 beam of an X-ray and this would have to be a
20 particularly old claim for our response to
21 matter but early on, we hear repeatedly that
22 they just didn't collimate X-ray machines

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1 early on the way they do now, and so you could
2 very well have had a broader beam and we don't
3 really know where on the scalp. It could have
4 been here on the scalp.

5 DR. MAURO: This case might have
6 been done before OTIB - PROC 61 --

7 MR. HINNEFELD: May have been.

8 DR. MAURO: Which provided a very
9 nice way in which you could adjust for where
10 the skin cancer was observed and then maybe
11 they just went ahead and went with the --

12 MR. HINNEFELD: It may have just
13 been they said we don't know for sure if it--
14 maybe it's here or maybe it's here we don't
15 really know.

16 DR. MAURO: So you gave it closer to
17 the beam.

18 CHAIRMAN GRIFFON: It's just an
19 observation anyway which I always had a hard
20 time understanding how we treat them in our
21 matrices, but any comment on that Doug or do
22 you want to follow up on it or? I mean it

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1 looks like --

2 MR. FARVER: It's an observation. We
3 can probably let it go.

4 CHAIRMAN GRIFFON: Yes. I mean do we
5 know --

6 DR. MAURO: We overestimated it.

7 CHAIRMAN GRIFFON: Yes
8 overestimated.

9 DR. MAURO: And this was
10 compensated.

11 CHAIRMAN GRIFFON: Was it
12 compensated? Anybody know if 192--?

13 MR. SIEBERT: Over 50 percent.

14 CHAIRMAN GRIFFON: Over 50 percent?

15 DR. ULSH: Is it like way over, is
16 this the thing that put it over?

17 MR. SIEBERT: No, I mean, well, it's
18 hard to say what put it over, but it was at
19 50.22 percent.

20 MR. HINNEFELD: Yes, but it's
21 probably not complete.

22 CHAIRMAN GRIFFON: Yes, it could

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1 have been partial.

2 MR. HINNEFELD: You have a poorly-
3 collimated beam and your decision is, if I
4 decide it's collimated, and I didn't expose
5 his head he's out, but it could very well not
6 have been collimated and the cancer could have
7 been here and we don't know. We don't know if
8 it's in or out.

9 CHAIRMAN GRIFFON: Do we know when
10 this was done relative to PROC 61?

11 MR. SIEBERT: Yes it was done in
12 September of '05. Procedure 60 was initially
13 available in 2004 but there were huge updates
14 and I believe this is one of the updates that
15 happened in 2006. It was relatively generic
16 prior to that and I think what Doug was
17 talking about the nice explanation on how you
18 can figure out between, that happened after
19 2005.

20 CHAIRMAN GRIFFON: So I guess the
21 one issue, I mean we always focus on the ones
22 below 50, this is one that is very slightly

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1 over 50 where we are being too claimant-
2 favorable, which is something we haven't dealt
3 with a lot in our discussions but -

4 MEMBER MUNN: Increasingly.

5 CHAIRMAN GRIFFON: Yes.

6 DR. ULSH: So what's the status?

7 CHAIRMAN GRIFFON: I'm not sure.

8 MR. HINNEFELD: Well I wouldn't
9 close it. Let's let SC&A look at it and made a
10 response.

11 MR. FARVER: It's an observation. It
12 was probably made an observation because it
13 was a compensated case.

14 CHAIRMAN GRIFFON: And I think we
15 should probably say since the time that this
16 dose reconstruction was completed, PROC 61 has
17 -- I think we might want to reference that
18 PROC 61 is the updated way of doing this dose
19 estimate.

20 DR. MAURO: Which could have
21 resulted in a lower dose but at the time it
22 was the right way to do it. You're not going

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1 to reverse that decision.

2 CHAIRMAN GRIFFON: You're not going
3 to reverse it, right. It's just pointing it
4 out, pointing it out that it may have -- yes.

5 MR. HINNEFELD: Did you want to
6 write that or did you want to -

7 CHAIRMAN GRIFFON: I'll try to write
8 it.

9 MR. HINNEFELD: Good.

10 CHAIRMAN GRIFFON: You said `05 it
11 was done in `05, Scott?

12 MR. SIEBERT: Correct.

13 CHAIRMAN GRIFFON: It's PROC 0061,
14 right? Okay. All right. Okay. And there's no
15 further action on this. So is the next one --
16 are you okay to move on?

17 DR. ULSH: No further action, did
18 you say?

19 MR. HINNEFELD: Yes, he said no
20 further action.

21 CHAIRMAN GRIFFON: Right

22 MR. HINNEFELD: It's an observation.

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1 CHAIRMAN GRIFFON: Right.

2 MR. HINNEFELD: Okay, 193.1. The
3 finding is failure to properly reference
4 procedure used in determining the photon dose.
5 Our response is we agree that OTIB-17 should
6 have been referenced but as SC&A points out,
7 the correct method from this document was
8 used. So we used the method from the document
9 without referencing the document. That's what
10 we said. I guess that SC&A can go check and
11 make sure that's true since no one has seen
12 these for so long.

13 MR. FARVER: No, that's okay, we can
14 close that one.

15 MR. HINNEFELD: Okay.

16 CHAIRMAN GRIFFON: Okay, that's
17 closed.

18 MR. HINNEFELD: And 194.1. The
19 finding is unable to confirm source of photon
20 uncertainty applied to the skin cancer. Our
21 response describes the origin of the photon
22 uncertainty and says that the correction

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1 factor of 1.43 is a combination of two
2 correction factors. For section 6.5 -- I'm not
3 sure what -- there is a correction factor for
4 film badges pre-1985 of 10 percent for low
5 energy photons and that means below 250 keV.
6 The second factor is the standard dosimeter
7 uncertainty for film badges is 30 percent.

8 So in this case, for both the less
9 than 30 and the 30 to 250 keV energy bands,
10 you have 1.1 which accounts for the 10 percent
11 underestimate times 1.3 which is the
12 uncertainty. That gives you 1.43. But the
13 greater than 250 keV energy band, you just
14 have 1.43. So it's a blended -- it's not the
15 same for all the energy bands.

16 DR. MAURO: I got it. I got it.

17 MR. HINNEFELD: So that's our
18 response.

19 MR. FARVER: I'll just go back and
20 check.

21 CHAIRMAN GRIFFON: Yes. That's worth
22 reviewing. But you don't know, for section

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1 6.5, it's not TIB-10.

2 MR. FARVER: Automatically it's a
3 TBD.

4 MR. SIEBERT: It's the Fernald TBD.

5 CHAIRMAN GRIFFON: Fernald TBD,
6 okay.

7 MR. HINNEFELD: See, 194.2, the
8 finding is the annual X-ray exam doses are not
9 assigned and reviewer could not reproduce the
10 occupational medical dose. Response is, SC&A
11 is correct. This report is an error. The
12 employee's X-rays of record were applied not
13 the annual X-ray. So apparently the report
14 said we used annual
15 X-rays when in fact we used the actual X-ray.
16 Kind of a QA sort of thing.

17 DR. MAURO: I've got a question.
18 When you have the X-ray records for an
19 employee and let's say it's less than once per
20 year, whatever you have you have, but if you
21 went to the once per year you would give him a
22 higher dose. What do you normally do? Do you

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1 normally just go with the limited number of
2 measurements or automatically just default to
3 the higher one?

4 MR. HINNEFELD: We use the X-ray
5 records.

6 DR. MAURO: You go with the X-ray
7 records. Okay.

8 MR. HINNEFELD: Yes, especially if
9 you are doing a best estimate. I don't know if
10 this is a best estimate or not but in general
11 there's a preference for best estimates unless
12 the overestimate saves you a lot of time and
13 so we use the medical record.

14 MR. SIEBERT: Yes, and this was a 46
15 percent so it would have been best estimate.

16 DR. ULSH: It's not clear to me that
17 that's the situation here. It might be. But it
18 might be that the actual record gave it more
19 frequently. I don't know without looking at
20 it.

21 MR. HINNEFELD: Well, there is more
22 to our response, it looks like.

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1 CHAIRMAN GRIFFON: No, that's the
2 next finding.

3 MR. HINNEFELD: Oh, okay. All right.

4 CHAIRMAN GRIFFON: Does SC&A need to
5 look back to this?

6 MR. FARVER: Well, what we can glean
7 out of this is the DR report said that X-rays
8 were calculated annually but in fact they
9 weren't. It was only for 12 of the 17 years of
10 employment because that's what there were
11 records for.

12 CHAIRMAN GRIFFON: Ah, yes.

13 MR. FARVER: But the tables in the
14 TBD say to use a certain frequency annually so
15 which do you go by? The records or the TBD?
16 And --

17 CHAIRMAN GRIFFON: What do you do
18 for this?

19 MR. FARVER: It depends on the site.
20 I know but then you have to go back to the
21 procedures and the documentation and each one
22 -- sometimes it says use the record or

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1 sometimes it says use the frequency for all
2 cases. And sometimes you just use the table's
3 frequency for maximum or something and for
4 best estimates you use the records, but you
5 have to go back and look at the documentation
6 and find out exactly what the tables say.

7 DR. MAURO: This could flip on that.

8 MR. FARVER: But they used the
9 actual records. The DR said they did it for
10 every year but they only did it for 12 out of
11 17 years when they had actual records.

12 DR. ULSH: So is this an SC&A, SC&A
13 considers NIOSH response?

14 MR. FARVER: This is back to us.

15 MR. HINNEFELD: On 194.3 we wrote a
16 book. The finding was reviewer questioned
17 whether dates of intake for fitted uranium
18 dose are claimant-favorable. Our response was
19 the comment that the assessment is not
20 consistent with OTIB-60 is not applicable
21 since this assessment was done in 2005 and
22 OTIB-60 was issued in 2007, so apparently

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1 that's part of the finding.

2 The shifting of the intake date to
3 account for the October 29 sample would not
4 have resulted in a significant change to the
5 assessment. So there's a lot of information
6 associated with finding we don't have here.
7 The two high samples in late October were
8 boxed in by two samples at the employee's
9 baseline on November 27 and November 1.
10 Therefore the resulting three-day chronic
11 intake was estimated with an acute intake at
12 the mid-point of a chronic intake. The use of
13 the day before as the intake date was done
14 because it resulted in the only scenario where
15 a good fit to the bioassay data could be
16 obtained. This is because the majority of
17 these samples were followed up by results that
18 were much lower than the high positive results
19 used to determine the intake date.

20 NIOSH agrees that this is not
21 considered a standard practice however in this
22 case it was a choice of calling the high

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1 samples false positive or assuming that the
2 intake occurred close to the high result.
3 NIOSH feels it is more claimant-favorable to
4 assume intake occurred than to assume nothing
5 occurred.

6 Apparently a one high sample
7 followed fairly closely by a low samples and
8 to fit that you have to have an intake that
9 occurred close to --

10 CHAIRMAN GRIFFON: I understand this
11 is to split the period.

12 MR. HINNEFELD: If you don't have
13 any indication and there are not
14 countervailing bioassay samples following it.

15 CHAIRMAN GRIFFON: I think this --
16 yes, you got to --

17 MR. HINNEFELD: We have just go to
18 back to it.

19 CHAIRMAN GRIFFON: Yes. I mean the
20 other thing I would ask on the record,
21 employment record from DOE, is if this was an
22 acute exposure, was there any kind of incident

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1 report or anything in the person's file to
2 indicate -

3 MR. HINNEFELD: Well, maybe
4 something will -

5 CHAIRMAN GRIFFON: Yes. That would
6 be something when you do the follow up, but
7 obviously if yes.

8 MR. FARVER: And what triggered was
9 obviously they chose an intake date the day
10 before the high bioassay sample.

11 CHAIRMAN GRIFFON: Right.

12 MR. FARVER: Which -- it's a
13 trigger.

14 MR. HINNEFELD: 194.4. Finding is
15 NIOSH failed to calculate internal doses
16 associated with potential exposure to thorium.
17 And the response is the 1955 bioassay listed
18 in the inventory exposure history report is
19 listed as beta urinalysis for plant 3. There
20 is no indication at this time that thorium was
21 processed in plant 3. Therefore no thorium was
22 assigned. Currently the guidance on assigning

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1 thorium exposures is being evaluated as part
2 of the Site Profile SEC process. If a change
3 in the approach to applying thorium is
4 implemented then this claim would be reworked
5 under PER. However the current Site Profile at
6 the time this claim was assessed, limits
7 thorium exposures to plant 9 in 1955.

8 CHAIRMAN GRIFFON: This could
9 certainly be discussed tomorrow.

10 MR. HINNEFELD: Sounds like it. I
11 don't know for sure but sounds like it could
12 be.

13 CHAIRMAN GRIFFON: Right. At either
14 rate, I think SC&A needs to follow up on this
15 and if we end up giving it to the Work Group,
16 that's fine, but for now we'll just say SC&A

17 MR. HINNEFELD: And yes, Observation
18 number one for 194 is NIOSH may have
19 erroneously concluded that PFG units were not
20 in use at FMPC during '51 through '58. Site
21 research for the site indicates that I think
22 if there was, the PFG wasn't used there.

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1 Observation number 2 is that SC&A's
2 review of the Site Profile has identified
3 deficiencies with NIOSH's assessment of
4 internal doses associated with the raffinate
5 streams in plant 2 and 3, recycled uranium and
6 failure to consider ingestion doses, and TBD
7 findings and concerns are being considered in
8 conjunction with the TBD and that's all.

9 DR. ULSH: For Observation number 1,
10 and I guess this one, what's the status?

11 CHAIRMAN GRIFFON: Yes, I was going
12 to ask, what is the status on Observation 1?

13 MR. HINNEFELD: Well, it's an
14 observation.

15 CHAIRMAN GRIFFON: Yes.

16 DR. MAURO: And I've got to say, I
17 wouldn't have made it an observation. In other
18 words we are saying that you might be missing
19 some PFGs, especially as a DOE facility,
20 unless you have -- if you have affirmative
21 evidence --

22 CHAIRMAN GRIFFON: I think it's

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1 pretty clear there.

2 DR. MAURO: They did not have PFG.

3 CHAIRMAN GRIFFON: I think it's
4 pretty clear there.

5 DR. MAURO: Well, just hand it to us
6 and we'll confirm.

7 CHAIRMAN GRIFFON: Yes.

8 MR. HINNEFELD: I don't think we can
9 do anything with it today. It goes to SC&A to
10 look at.

11 DR. ULSH: Okay.

12 CHAIRMAN GRIFFON: But do we need --
13 does NIOSH -- I mean does SC&A have the
14 evidence that supports that claim? Is it in
15 that section -

16 MR. HINNEFELD: Doesn't it come up
17 in the Site Profile debate at all?

18 DR. MAURO: If we don't have it,
19 we'll call you.

20 CHAIRMAN GRIFFON: Okay. Okay.

21 MEMBER CLAWSON: So what are we
22 going to do on that?

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1 CHAIRMAN GRIFFON: Well, I think
2 SC&A will follow up on it. And if they don't
3 have enough information --

4 DR. MAURO: We'll reach out to you
5 so you know.

6 MR. FARVER: So, we are saying that
7 they assumed it was PFG and it should not
8 have?

9 MR. HINNEFELD: No, we said --

10 CHAIRMAN GRIFFON: We said it
11 wasn't, right.

12 DR. MAURO: Before a certain date we
13 thought there should be PFG but what was the
14 date that you cut off at?

15 MR. HINNEFELD: `51 through `58. `51
16 is when the place opened. So `58 must be the
17 cutoff in the OTIB -

18 CHAIRMAN GRIFFON: Right.

19 MR. HINNEFELD: That we used if you
20 don't know, you assume for that. In this case
21 the judgment was we know. They didn't have -

22 DR. MAURO: You didn't provide any

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1 reference on the basis for that conclusion.

2 MR. HINNEFELD: Not here. I don't
3 know what that conclusion was based on. Well,
4 we refer to the Site Profile. And I don't know
5 what references were listed in the Site
6 Profile.

7 DR. ULSH: Interviews of medical
8 employees.

9 CHAIRMAN GRIFFON: It does reference
10 medical -- hopefully they're referenced in the
11 -- yes.

12 MEMBER MUNN: You have interviews,
13 either accept them or you don't accept them.

14 CHAIRMAN GRIFFON: Again, follow up
15 on that and see if you need more information.
16 You can talk to them. Okay. 194, Observation
17 2.

18 MR. HINNEFELD: Oh, we just referred
19 those to the TBD discussion.

20 CHAIRMAN GRIFFON: Okay.

21 MR. HINNEFELD: In fact I think they
22 were put in here as observations because they

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1 were already issues in the Site Profile.

2 MR. FARVER: A little bit more about
3 that previous observation, about PFG. That
4 observation is based on findings from our
5 review of the Fernald TBD.

6 MR. HINNEFELD: I think all these
7 are.

8 MR. FARVER: So that's not a -- so
9 that observation is not unique to this case.

10 CHAIRMAN GRIFFON: Okay.

11 MR. FARVER: It is two findings,
12 finding 30, finding 33, out of our report for
13 the Fernald TBD.

14 MEMBER MUNN: Unless that's true of
15 Observation 2 and Observation 3.

16 MR. FARVER: Probably.

17 MR. HINNEFELD: I think those things
18 are here as observations --

19 CHAIRMAN GRIFFON: Yes,
20 placeholders.

21 MR. HINNEFELD: They had previously
22 been identified in Site Profile review.

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1 CHAIRMAN GRIFFON: That's fine so
2 we'll just put them as closed out for our
3 process.

4 DR. ULSH: Observations 1, 2, and --

5 CHAIRMAN GRIFFON: Even number 1
6 should be closed out? I sort of liked my
7 statement on one but you want to leave that to
8 the Work Group?

9 MR. FARVER: Let me see on
10 Observation 1. Observation 1 is about findings
11 30 and 33 of the SC&A report on the Site
12 Profile so it's already been previously
13 identified.

14 CHAIRMAN GRIFFON: Okay. I'll just
15 say SC&A will follow up on the events of when
16 Fernald was using PFG and include in Site
17 Profile discussion. So it refers it to the --
18 I just don't want to lose the actual work has
19 got to be done.

20 MR. FARVER: The final statement of
21 that observation is the resolution of these
22 findings could have an impact on this case,

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1 which is true. So, but that gets resolved
2 under Site Profile Work Group?

3 CHAIRMAN GRIFFON: So this will be
4 resolved tomorrow is what you are saying.
5 Okay.

6 DR. ULSH: It will be discussed
7 tomorrow.

8 MR. FARVER: We roll tomorrow.

9 CHAIRMAN GRIFFON: Unfortunately I'm
10 on that Work Group too. Okay.

11 MEMBER MUNN: Lucky guy.

12 DR. ULSH: So that's the same for
13 observation --

14 CHAIRMAN GRIFFON: Same for two and
15 three, right.

16 MR. HINNEFELD: These are all the
17 same.

18 CHAIRMAN GRIFFON: Yes, yes, that's
19 fine. Okay. Yes. You have got some more. You
20 want to do -- we can get through 195 and then
21 we may want to call it a day.

22 MR. HINNEFELD: All right. Finding

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1 195.1 is NIOSH did not apply the correct
2 exposure geometry and organ dose conversion
3 factor. Our response is the rotational
4 geometry organ dose conversion factors are
5 higher than the interior posterior geometry
6 per red bone marrow. And additional
7 corrections are required when the dosimeter
8 was worn on the chest. It is not clear if the
9 interior posterior rotational or isotropic
10 geometry is the most applicable based on
11 employee's duties and work locations.

12 However since the reconstructed
13 dose results in a compensable decision it was
14 appropriate to apply the dose conversion
15 factor that gives a lower dose. For this
16 claim, that is the dose conversion factor for
17 anterior to posterior exposures. Use of the AP
18 dose conversion factor may have been
19 inadvertent for this claim and its use as an
20 underestimating assumption should have been
21 noted in the report for clarity.

22 It sounds like what this is, the

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1 finding apparently was that whereas we
2 normally use AP geometry because that usually
3 gives the highest, but it doesn't for red bone
4 marrow. And so I think the finding probably
5 said well, you should use rotational because
6 it's one of the few exceptions from AP -

7 DR. MAURO: Okay.

8 MR. HINNEFELD: I think that's
9 probably what the finding said.

10 DR. MAURO: And since it was
11 compensated --

12 MR. HINNEFELD: And we said, well,
13 yes, we agree, but we used AP on that and it
14 was compensated so you're kind of better off
15 being on the low side rather than the high
16 side on a mistake on a compensable claim and
17 even though we said it may have been a
18 mistake, it may have been inadvertent, so we
19 didn't know exactly why AP ended up in there,
20 but so I think that's it, but I think you guys
21 ought to take a look at it, see if that's --

22 CHAIRMAN GRIFFON: Yes, yes, yes. It

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1 seems a bit like one of these after the fact
2 justifications for an error.

3 MR. HINNEFELD: No, we've never said
4 we were right. We said it was an error.

5 CHAIRMAN GRIFFON: Okay.

6 MR. HINNEFELD: Serendipity.

7 CHAIRMAN GRIFFON: Okay. You lucked
8 out, yes.

9 MR. HINNEFELD: Yes. All right.
10 Don't expect to be lucky. Rely on it.

11 Okay, finding 195.2, discrepancy
12 between assumptions described in the report
13 and those used in the workbook calculation.
14 Our response is the dose reconstruction report
15 is erroneous as noted in the finding. The 95th
16 percentile neutron to proton ratio is often
17 used as an overestimating approach in the more
18 common situation where they reconstruct the
19 dose results in a non-compensable decision.
20 The standard language from that more common
21 approach was not changed to match the use of
22 the more reasonable geometric mean value of

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1 the ratio.

2 So this could be listed as a QA
3 finding because the report said do one thing
4 but we really did another thing. But we
5 believe the dose reconstruction report, there
6 is no problem with the mathematics in the
7 report, but the words in the report don't
8 match what we did. You can take it back to
9 look at.

10 CHAIRMAN GRIFFON: Okay. Interrupt
11 any time Doug if you have any follow up
12 questions.

13 MR. FARVER: No, that was the gist
14 of it.

15 CHAIRMAN GRIFFON: Yes, yes.

16 MR. FARVER: It was just a wording
17 and it was different than what the
18 calculations were.

19 MR. HINNEFELD: Finding 195.3 is --
20 using sodium-24 whole body count results may
21 underestimate the dose. We wax eloquent again.
22 This finding implies that the internal dose

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1 from fission products was based solely on
2 measurements of sodium-24 or that the TBD such
3 and such number recommends such a method. Upon
4 review of the internal dose reconstruction,
5 this was found not to be true of this claim or
6 the guidance in the TBD. The potential missed
7 fission product dose for this claim was
8 determined using the radionuclide that gives
9 the highest dose to the appropriate organ
10 based on the whole body count MDA and exposure
11 period (except for years coworker intakes were
12 used.)

13 For this claim, that radionuclide
14 was determined to be cerium-144. Deposits of
15 zinc-65 and sodium-24 whole body count results
16 were evident in these records and these were
17 each considered separately. The findings also
18 state that the internal dose could also be
19 underestimated by using sodium-24 results
20 because zinc-65 is more easily detected post-
21 intake due to its longer half-life.

22 In fact, the opposite would occur.

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1 A higher intake would be calculated because
2 the intake calculation takes into account the
3 effective half-life of sodium-24 in the body.

4 In other words, if the sodium-24 is
5 disappearing at a more rapid rate, and you
6 take your sodium, your in-vivo count, you
7 would have a larger back-calculated correction
8 for sodium-24 than for zinc-65. This seems to
9 be a very complicated response and it needs to
10 go back to SC&A.

11 DR. MAURO: I think I understand
12 what you're saying. We'll look at it.

13 MR. FARVER: I can't even find the
14 finding in the report.

15 MR. HINNEFELD: Well somebody put it
16 in the matrix.

17 CHAIRMAN GRIFFON: It looks like the
18 day of the fission product or the chooser
19 right?

20 MR. HINNEFELD: It looks like it was
21 -- the internal dose from fission -- this
22 sounds like a Hanford case because we have --

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1 CHAIRMAN GRIFFON: Hanford, yes.

2 MR. HINNEFELD: Because it was in
3 the drinking water.

4 CHAIRMAN GRIFFON: Right.

5 MR. HINNEFELD: That's what it
6 sounds like. The comment seemed to imply that
7 we calculated internal dose just from the
8 sodium where in fact we did it in a different
9 way, and used the high dose, the highest
10 nuclide.

11 CHAIRMAN GRIFFON: Which would have
12 been the chooser I think.

13 MR. HINNEFELD: I don't know what we
14 called it.

15 CHAIRMAN GRIFFON: Right. Thank you
16 Scott.

17 MR. HINNEFELD: Thanks Scott.

18 MR. SIEBERT: No problem. It sounds
19 like we were just a little too ambitious
20 picking one more Mark.

21 CHAIRMAN GRIFFON: Yes, I know, we
22 were -

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1 (Laughter.)

2 CHAIRMAN GRIFFON: Yes. I know.

3 MR. HINNEFELD: The drain in energy
4 level is audible, not just visual, it's
5 audible. Finding 195.4, and the finding is an
6 internal dose from cesium-137 was not
7 included. One more book. Our response. The
8 dose reconstructor compared the cesium-137
9 bioassay results to the mean body burden
10 resulting from fallout and determined that
11 they were similar although two were slightly
12 greater. I guess that's two of the cesium-137
13 bioassay results, I guess, were slightly
14 higher.

15 CHAIRMAN GRIFFON: I think you can
16 almost stop there and say SC&A needs to
17 review.

18 (Simultaneous speaking.)

19 CHAIRMAN GRIFFON: It's pretty
20 obvious that you are going to have to look at
21 that.

22 MR. HINNEFELD: There are some

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1 observations. You want to worry about that or
2 just say since they are observations, no
3 further action required?

4 Oh my God, they're long.

5 CHAIRMAN GRIFFON: Hold on, let's
6 see.

7 MR. FARVER: I mean, we can talk
8 about that cesium if you want to, I ,mean it
9 goes straight from a table of mean body
10 burdens from cesium fallout in the United
11 States and the whole body results for one
12 number, and the table results for a lower
13 number, so I would assume that you would
14 calculate a dose from that and I assume it's a
15 body burden not from fall-out.

16 MR. SIEBERT: Well, the operable
17 part of this response actually is at the end
18 and I apologize for that. It's compensable
19 claim and we stated that we didn't need to
20 assess any cesium-137.

21 MR. HINNEFELD: Yes I think the
22 operable part is that we simply terminated the

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1 dose reconstruction before doing the cesium
2 part.

3 MR. FARVER: And that's part of a
4 problem we have. We sometimes can't tell if
5 it's been terminated or just omitted.

6 CHAIRMAN GRIFFON: Well yes, that's
7 true. I guess I would -- I don't know. It
8 obviously doesn't affect this claim, does it,
9 is there still a question of how it's handled
10 overall? Or --

11 MR. FARVER: I don't know that you
12 could resolve that, I mean if you are trying
13 to -- it was just terminated. You know a lot
14 of times what I've seen in the past is if say
15 an internal dose is not necessary, they have
16 ended the internal dose section, you'll say,
17 per such and such a CFR, this is not needed,
18 and probably a statement like that should have
19 been included under a cesium section, if
20 that's the case. That way everyone knows that
21 it could have happened but we don't need to
22 address it. We are going to move on.

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1 MR. HINNEFELD: Well you guys have
2 gotten into the comment --

3 CHAIRMAN GRIFFON: Well I'm going to
4 say SC&A will review further. Likely or no
5 effect on the case. Or likely no effect on
6 this case. I just want to leave it a little
7 open to let them look at it closely.

8 MR. HINNEFELD: Observation one. The
9 recorded whole body gamma used by NIOSH in the
10 AI workbook, differ from those totaled by SC&A
11 from the DOE records. Since the handwritten
12 records for AI from 1957 through `67 are not
13 always dated or in order, the discrepancy that
14 exists between SC&A and NIOSH input values
15 could be due to the misreading of the original
16 recorded data by either party. The background
17 for this observation identifies 1957 as the
18 year when differences were noted between the
19 doses used by NIOSH and those observed by
20 SC&A. No other specific discrepancies were
21 identified. The gamma dose for 1957 was
22 determined by SC&A, was given as 57 millirem

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1 and SC&A states that NIOSH uses 29 millirem
2 for that year. The SC&A representation of the
3 dose used by NIOSH is incorrect. The recorded
4 gamma dose used by NIOSH was 62 millirem but
5 this was reduced to 29 millirem due to
6 considering values less than half the
7 dosimeter limit of detection as zero results
8 as required by OCAS-IG-1. The 62 millirem
9 total gamma dose for 1957 is taken from page
10 31 and 32 of the DOE file of the DOE response
11 such and such. The doses used by NIOSH appear
12 to be correct. The 57 millirem value stated by
13 SC&A we cannot replicate. So that's got to go
14 to SC&A.

15 DR. MAURO: Just for my own
16 edification, you are saying that if the
17 recorded film badge reading is less than one
18 half the MDA, at that time you were recording
19 a zero?

20 MR. HINNEFELD: At this time, yes --

21 DR. MAURO: At that time that was
22 what you were doing.

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1 MR. HINNEFELD: That's what we are
2 doing now.

3 DR. MAURO: You're doing that now?
4 So if you get a reading as opposed to
5 assigning one half the MDA, you assign zero.

6 MR. HINNEFELD: Yes, but it's
7 assigned as one half the MDA in the missed
8 dose section.

9 DR. MAURO: All right so I'm asking,
10 are you --

11 MR. HINNEFELD: Yes.

12 DR. MAURO: Oh. Okay.

13 MR. HINNEFELD: It's assigned a zero
14 in the recorded dose section and then that one
15 is put in the missed dose section where they
16 are going to have the MDA.

17 DR. MAURO: Oh okay. I'm okay now. I
18 didn't quite follow it.

19 CHAIRMAN GRIFFON: Yes, they don't
20 double count, right.

21 DR. MAURO: Okay I just wanted to --
22 I didn't understand. Right.

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1 CHAIRMAN GRIFFON: But my question
2 on this one is why is it an observation and
3 not a finding? It seems like a discrepancy in
4 value, that kind of thing usually comes up as
5 a finding. No?

6 MR. HINNEFELD: I don't know. It's
7 not very big --

8 CHAIRMAN GRIFFON: Yes I know, it's
9 just, yes, but --

10 MR. HINNEFELD: I don't know. I
11 don't know.

12 CHAIRMAN GRIFFON: Anyway, I was
13 just trying to get a --

14 MR. FARVER: I don't know. Sometimes
15 when we talk to these Board Members on their
16 conference calls we change things from
17 findings to observations -

18 CHAIRMAN GRIFFON: Oh, blame it on
19 the Board. Oh, I see. I didn't do this case
20 did I? All right we'll leave it at that.
21 Neutron/photon, go ahead.

22 MR. HINNEFELD: The observation

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1 number two is the neutron/photon dose ratios
2 described in the Site Profile main number,
3 it's the number of the Site Profile, may be
4 underestimated. Response is the neutron to
5 photon ratio as listed in the included
6 technical basis document was used in the dose
7 reconstruction. The validity of those ratios
8 is currently undergoing evaluation. They were
9 assumed to be correct at the time the dose was
10 reconstructed for this claim. So that is I
11 think in a Site Profile review, I think the --

12 CHAIRMAN GRIFFON: Which --

13 MR. HINNEFELD: Didn't we assign
14 this to the Hanford case?

15 CHAIRMAN GRIFFON: This is Hanford.

16 MR. FARVER: Oh, it's Hanford and
17 Atomics International and Grand Junction.

18 CHAIRMAN GRIFFON: So the N/P ratios
19 would be for Hanford though?

20 MR. FARVER: Probably.

21 MR. HINNEFELD: I believe so.

22 CHAIRMAN GRIFFON: So there is a

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1 Hanford group active.

2 MR. HINNEFELD: Yes.

3 CHAIRMAN GRIFFON: Yes. So this
4 issue will go to the Site Profile group, I
5 believe, right?

6 MR. HINNEFELD: I think it's already
7 there. We'll let them -- we'll let SC&A come
8 back with a response before we take any
9 action on it, right? Are we going to just send
10 it over there or what are we going to do?

11 CHAIRMAN GRIFFON: Well let's say
12 it's under review and is it under review on
13 the Hanford --

14 MR. HINNEFELD: It's under review on
15 the Hanford Site Profile, and the Work Group.
16 Observation number three. The procedures and
17 documents used to derive those doses were not
18 referenced in the text or in the reference
19 section of the DR report. Our response,
20 references for the information used to
21 determine the onsite ambient dose should have
22 been included in the report. So we agree the

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1 references should have been there. I guess you
2 could make it a QA finding. It felt like that
3 was a QA failure.

4 CHAIRMAN GRIFFON: I'm assuming SC&A
5 agrees with this, right?

6 MR. FARVER: Yes.

7 CHAIRMAN GRIFFON: No further
8 action. All right. The last one? How many
9 observations? Okay. Last one. Last one for the
10 day. Let's make it a good one.

11 MR. HINNEFELD: It's long.
12 Observation four. The DR states that the IMBA
13 code was used to calculate chronic ingestion
14 intakes for sodium-24 and zinc-65. In fact the
15 IMBA code was used to calculate chronic
16 inhalation intakes of 843 picocuries per day
17 and 65 picocuries per day for sodium and zinc
18 respectively. The actual chronic ingestion
19 intakes are 558 picocuries per day and 37.4
20 picocuries per day for sodium and zinc
21 respectively. Also the sodium-24 whole body
22 count result entered for the year 1970 is

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1 actually the 1968 result. The observations
2 currently point out that the report does not
3 match the analysis in regards to the intake
4 pathway for sodium-24 and zinc-65. However the
5 internal dose calculated from zinc -- from the
6 sodium-24 and zinc-65 results was not included
7 in the dose estimate because they were both
8 less than one millirem, in spite of the
9 overestimate produced by assuming inhalation
10 intakes. The observation is also correct in
11 noting that the bioassay result for 724 does
12 not correspond to the correct date, so --

13 CHAIRMAN GRIFFON: I think SC&A
14 might want to look further into that.

15 MR. HINNEFELD: Yes.

16 CHAIRMAN GRIFFON: And again, I
17 don't know how that is an observation but I
18 guess that's the Board that has done that. No,
19 okay. All right. I mean it seems like -- and
20 if you're in agreement that it is, you know, I
21 think you have to review to see first is the
22 question about the one millirem and -- I think

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1 there's several things that SC&A should look
2 back at on this one.

3 Okay. And I think that's it. I
4 think around the table we've kind of had it so
5 I don't know about you all that have stuck
6 with this on the phone but yes that answers my
7 question, okay. Anything else for the record
8 today?

9 Anyone? Do we want to try to pick a
10 date?

11 MR. KATZ: Why not? It makes it
12 easier. We've done this for the last few Work
13 Groups.

14 CHAIRMAN GRIFFON: Let's go ahead
15 and pick a date, yes. Maybe you can steer us
16 in the right direction Ted. What dates are out
17 there?

18 MR. KATZ: Wait a sec, let me switch
19 my calendar. Well given that work hasn't been
20 done to finish seven and there's quite a bit
21 to do left on eight and we want progress on
22 nine too, I mean I would suggest we push it

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1 out -

2 CHAIRMAN GRIFFON: To near the
3 February meeting? Is there --

4 MR. KATZ: To near or after the
5 February meeting.

6 MR. HINNEFELD: I would suggest
7 after.

8 MR. KATZ: I mean this doesn't have
9 to come before --

10 MR. HINNEFELD: It doesn't matter to
11 me.

12 MR. KATZ: We don't have an item to
13 put before the Board.

14 CHAIRMAN GRIFFON: Right.

15 MR. KATZ: So we don't really have
16 to be beholden to that.

17 CHAIRMAN GRIFFON: We can go into
18 March.

19 MR. HINNEFELD: I'm out for almost
20 all of February.

21 CHAIRMAN GRIFFON: Oh okay.

22 MR. HINNEFELD: You can do it

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1 without me, I'm okay with that.

2 MR. KATZ: We have a meeting booked
3 in March. Let me see what date that is because
4 it might make sense to sidle up to that. Yes,
5 TBD-6001 which you are on, Mark, is on March
6 15. So either the 16th or the 14th would be
7 good.

8 CHAIRMAN GRIFFON: I like the 14th
9 but I know others are not going to like that
10 as much, right?

11 MR. KATZ: Well.

12 MEMBER RICHARDSON: That's good for
13 me.

14 MR. KATZ: That was David that said
15 it was good for him.

16 CHAIRMAN GRIFFON: Let's do the 14th
17 at least tentatively. 14th for DR Subcommittee.

18 MEMBER CLAWSON: I'm -- let's shoot
19 for it.

20 CHAIRMAN GRIFFON: Mike are you
21 still on?

22 MR. KATZ: Mike?

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1 MEMBER GIBSON: Yes, 14th's good.

2 MR. KATZ: Okay. Brad doesn't have
3 an immediate problem.

4 MEMBER CLAWSON: No, let's just
5 shoot for that and I'll see where my schedule
6 falls.

7 CHAIRMAN GRIFFON: Okay we'll try
8 it. We can also about beginning of March if we
9 don't have a lot of activity, we can also, how
10 long before should we cancel this?

11 MR. KATZ: We can't cancel that
12 late.

13 CHAIRMAN GRIFFON: I mean, when do
14 you post them in the Federal Register? 30 days
15 beforehand?

16 MR. KATZ: 30 days in advance. So
17 that's when we would have to notify the public
18 --

19 CHAIRMAN GRIFFON: So I might try to
20 touch base with SC&A and NIOSH.

21 MR. KATZ: You should actually.

22 (Simultaneous speaking.)

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1 CHAIRMAN GRIFFON: Because I don't
2 want to -- we don't want to schedule just for
3 the purpose of coming to Cincinnati. Okay.

4 MR. HINNEFELD: The baseball season
5 hasn't even started yet.

6 CHAIRMAN GRIFFON: Anything else?

7 MR. HINNEFELD: We are expected here
8 unless we hear otherwise?

9 MR. KATZ: Yes.

10 CHAIRMAN GRIFFON: All right. If
11 there's nothing else, we are going to close.
12 Meeting adjourned. Thanks everyone for hanging
13 in there.

14 (Whereupon, the above-entitled
15 matter went off the record at 4:42 p.m.)

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