

This transcript of the Advisory Board on Radiation and Worker Health, Dose Reconstruction Subcommittee, has been reviewed for concerns under the Privacy Act (5 U.S.C. § 552a) and personally identifiable information has been redacted as necessary. The transcript, however, has not been reviewed and certified by the Chair of the Dose Reconstruction Subcommittee

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
MARCH 22, 2010

+ + + + +

The Subcommittee convened in the Zurich Room of the Cincinnati Airport Marriott, 2395 Progress Drive, Hebron, Kentucky, at 9:30 a.m., Mark Griffon, Chairman, presiding.

PRESENT:

MARK GRIFFON, Chairman
MICHAEL H. GIBSON, Member
WANDA I. MUNN, Member

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ALSO PRESENT:

TED KATZ, Designated Federal Official

HANS BEHLING, SC&A*

KATHY BEHLING, SC&A*

ELIZABETH BRACKETT, ORAU*

HARRY CHMELYNSKI, SC&A*

DOUGLAS FARVER, SC&A

STUART HINNEFELD, DCAS

EMILY HOWELL, HHS

JENNY LIN, HHS

JOHN MAURO, SC&A

MUTTY SHARFI, DCAS*

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 (9:32 a.m.)

3 MR. KATZ: Good morning, everybody
4 in the room and on the line. This is the
5 Advisory Board on Radiation and Worker Health
6 Dose Reconstruction Subcommittee. This is Ted
7 Katz. I'm the Designated Federal Official,
8 and we're about to get started. We'll begin,
9 as always, with roll call, with board members
10 in the room. Mark?

11 CHAIRMAN GRIFFON: Yes, Mark
12 Griffon, Chair of the Dose Reconstruction Work
13 Group, or Subcommittee.

14 MEMBER MUNN: Wanda Munn,
15 Subcommittee Member.

16 MEMBER GIBSON: Mike Gibson,
17 Subcommittee Member.

18 MR. KATZ: And do we have any
19 Board members on the line? Okay, no Dr.
20 Poston? No Bob Presley? No Brad Clawson?
21 Okay, then the NIOSH ORAU team in the room?

22 MR. HINNEFELD: Stu Hinnefeld,

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1 Interim Director of Division of Compensation
2 Analysis Support.

3 DR. ULSH: This is Brant Ulsh.

4 MR. KATZ: And on the line, NIOSH
5 ORAU Team?

6 MR. SIEBERT: Scott Siebert, ORAU.

7 MR. SHARFI: Mutty Sharfi, ORAU.

8 MR. KATZ: Okay, and then SC&A in
9 the room?

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

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

12 MR. KATZ: And on the line for
13 SC&A?

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

15 MR. KATZ: Welcome.

16 DR. BEHLING: Hans Behling, SC&A.

17 MR. KATZ: Welcome, Hans. Okay,
18 and then HHS or other federal officials or
19 contractors to the feds in the room?

20 MS. HOWELL: Emily Howell, HHS.

21 MS. LIN: Jenny Lin, HHS.

22 MR. KATZ: And on the line, HHS or

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1 other federal officials or contractors to the
2 feds? Thanks. And then any members of the
3 public on the line? Okay, quiet morning.
4 Mark, all yours.

5 CHAIRMAN GRIFFON: Yes. This is a
6 -- probably we don't have a big crowd because
7 we handle the details here of the down and
8 dirty review details, important nonetheless.
9 I think a simple agenda to start the day, for
10 those on the phone, we're just going to do --
11 look at our follow-up report for the first 100
12 cases again.

13 Just to remind you, we were asked
14 by the Board to give a follow-up from the
15 letter that we have submitted to the Secretary
16 regarding the first 100 case review. I would
17 -- well, I'd like to close that out today and
18 maybe we will. Hopefully we will.

19 Then on the agenda after that I
20 think the sixth set and seventh set of cases,
21 and I believe -- actually, for the last couple
22 meetings, we've been very close to closing

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1 those out. So I'm hoping that today we can be
2 done with those final matrix items on those
3 two sets of cases and then continue on these
4 from wherever we left off. I think we were
5 still doing our first pass through some of the
6 findings.

7 We have those mini site profile
8 reviews we started on as well. So -- and I
9 don't know if that helps anyone on the phone.

10 I don't know if Kathy and Hans are primarily
11 on the phone for those mini site profile
12 issues. I mean, they might come up later in
13 the day.

14 DR. MAURO: Yes, they're on the
15 schedule. I know Hans, he wrote a special
16 counter report on Harshaw.

17 CHAIRMAN GRIFFON: Okay.

18 DR. MAURO: And I know that's one
19 area where I know he'd be interested in
20 discussing. If it comes up early, great. If
21 not --

22 CHAIRMAN GRIFFON: Okay. I just

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1 don't want to tie him up unnecessarily if we
2 don't have to.

3 DR. MAURO: Okay.

4 CHAIRMAN GRIFFON: So with that in
5 mind, I did send out an -- and I know it was a
6 little late, but I didn't get any other
7 comments and I did have Wanda's comments to
8 the previous follow-up report, the draft, that
9 I -- we had talked about on the phone call
10 meeting, which I believe was on January 14th
11 of this year. We had a phone-call
12 Subcommittee meeting where we only discussed
13 this report.

14 At that time, Wanda submitted a
15 number of edits. I looked at her comments. I
16 took most of them, Wanda, I think almost all
17 of them.

18 MEMBER MUNN: Most of them.

19 CHAIRMAN GRIFFON: I may have -- I
20 may have taken out -- at least one thing that
21 you had deleted I took out and reinserted. So
22 we can talk about that.

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1 MEMBER MUNN: Yes. Most of it was
2 minor.

3 CHAIRMAN GRIFFON: Yes, but I -- I
4 took most of the comments. So we can go
5 through that. And then also I forwarded some
6 other documents that Doug and the SC&A staff
7 had looked into for us, which is the question
8 on the quality control/quality assurance
9 investigation, I guess for lack of a better
10 word, and what our options are, and Stu put
11 together three documents. If I characterize
12 this wrong, Doug, let me know. One summarizes
13 all the findings that they characterized as
14 quality assurance/quality control type of
15 findings, and the other two are options to
16 either look at cases related to -- selected
17 cases from the first through the fifth set of
18 cases, or the first through the eighth set of
19 cases. I'll discuss that more as we -- as we
20 go into -- after we look at the main
21 documents, but those are the four pieces you
22 should've received. If anybody didn't get

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1 those, please maybe let us know now, and
2 either I can forward them or possibly Doug can
3 forward them. Does everybody have those?
4 Okay.

5 All right, so, on the basic
6 report, and I was thinking of this as sort of
7 a path forward here, I was thinking of lending
8 this document out as a preliminary report to
9 the Board on the first 100 cases, and the
10 reason I'm saying preliminary is because I
11 would like to get -- submit this report to the
12 Board for discussion at the Board level, and I
13 didn't want to wait for the SC&A investigation
14 of those key tasks.

15 So at least we have something to
16 discuss at the Board level and we can describe
17 to the Board that we also have tasked SC&A
18 with looking at -- at the QC-related findings
19 further, doing further investigation on the QC
20 findings. But at least to come back with them
21 and say, here's generally what we have as a
22 follow-up.

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1 We may at that point get some
2 comments from other Board members where we may
3 have to come back. So then the idea would be
4 to come back and do a final report, which
5 would include the results of our investigation
6 into the QC findings.

7 I don't know if that makes sense
8 as a process. I -- well, I'm offering that as
9 a process forward, anyway.

10 MEMBER MUNN: So, Mark, are you
11 suggesting that we present this at the next
12 full Board meeting, or is it your expectation
13 that you can get this to the Board members in
14 an exposition from that manner that it might
15 be a topic for our teleconference that's
16 coming up? So if there were at least -- at
17 least if anyone had any major concerns and
18 wanted to ask that we postpone it while we
19 give it more thought, we could do so and then
20 fully address it in New York?

21 CHAIRMAN GRIFFON: Yes to one of
22 those. I'm not sure. I can talk to Ted and

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1 Jim Melius about whether we can fit it on the
2 agenda for the March 30th full Board
3 conference call. I don't know if it can fall
4 under miscellaneous?

5 MR. KATZ: It can fall under the
6 Work Group reports. So you most certainly can
7 address it.

8 CHAIRMAN GRIFFON: Yes.

9 MR. KATZ: We probably have to
10 keep it pretty brief for that meeting just
11 because that meeting agenda is -- I don't know
12 if you've looked at it, but --

13 CHAIRMAN GRIFFON: I haven't.

14 MR. KATZ: -- there's a lot on
15 there compared to a typical teleconference
16 agenda. So it's a question of how much
17 endurance the Board has for the
18 teleconference.

19 CHAIRMAN GRIFFON: It may be more
20 a matter of delivering a preliminary report
21 and saying here it is. Here's what's in it.
22 For the full Board meeting, maybe people can

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1 consider this and come back with comments for
2 the Subcommittee.

3 MEMBER MUNN: Yes, that was my
4 thought. If we could get it before them --

5 CHAIRMAN GRIFFON: Yes.

6 MEMBER MUNN: -- then we could
7 anticipate a final word.

8 CHAIRMAN GRIFFON: Right, yes.
9 That's what I'd like to do. Does that make
10 sense?

11 MR. KATZ: Good.

12 CHAIRMAN GRIFFON: Then why don't
13 we go through the report? Wanda, you probably
14 noticed that one paragraph at the end of the
15 QC in section one. I'm going to add it back.

16 That was mainly because I wanted to show that
17 we were tasking SC&A with doing this follow-up
18 investigation on QC findings.

19 MEMBER MUNN: Right.

20 CHAIRMAN GRIFFON: Other than
21 that, I believe in the body of the text, I
22 don't -- I don't think I changed any of your -

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1 - there is one other spot I can think of where
2 I changed your edit. It's section two, under
3 the recommendations at the bottom of section
4 two: A, B, and C.

5 And for B, and maybe it was just
6 my choice of words, but I was trying to say in
7 this, NIOSH should consider developing a
8 standardized approach for interviewing. You
9 said -- you crossed out what I had had before
10 and put, available. And I put back in, all
11 available.

12 And I guess the -- what I was
13 trying to convey in that bullet was that there
14 -- there seems to be a sense that comments
15 from health physics managers or certain
16 scientific experts are being weighted much
17 more heavily than those from shop-floor
18 experts who, while they may know very
19 different things, I think they -- they do lend
20 expertise that could be important.

21 MEMBER MUNN: Well, the hardest
22 job we have, in my view, is always the

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1 semantics. And I -- we can -- there's no real
2 point in our arguing semantics one way or the
3 other.

4 CHAIRMAN GRIFFON: Okay.

5 MEMBER MUNN: It just doesn't get
6 us anywhere. At least it doesn't get me
7 anywhere. So that's fine.

8 CHAIRMAN GRIFFON: Okay. Other
9 than that -- and you may -- you may find -- I
10 was going to leave this in the track-changes
11 version, but it was getting very cumbersome
12 with all the -- all the notes

13 MEMBER MUNN: Yes.

14 CHAIRMAN GRIFFON: And I just
15 thought we needed a clean version to look at.

16 MEMBER MUNN: After about 105
17 questions --

18 CHAIRMAN GRIFFON: Yes.

19 MEMBER MUNN: -- and changes, it
20 gets to be too much.

21 CHAIRMAN GRIFFON: And the only
22 other -- at the end of this document, and --

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1 and -- I'm not sure. Obviously, this is a
2 preliminary going to our own, other members.
3 So I'm not sure it has the best of conclusions
4 here. But the -- after number three, there's
5 a closing part which is sort of -- it says
6 that it should be noted several changes I was
7 thinking of -- I mean these are mostly what I
8 would view as positive outcomes from the
9 process. So maybe we can think about
10 rephrasing that. But, Wanda, I think you had
11 added C and D and I just inserted B, the PER,
12 which we had discussed at the last --

13 MEMBER MUNN: Yes.

14 CHAIRMAN GRIFFON: -- phone call
15 meeting. And with the caveat that Stu and I
16 had talked about the language. Stu, I think
17 you were okay with this, several changes to
18 the Dose Reconstruction Program in part due to
19 findings identified.

20 MR. HINNEFELD: Right.

21 CHAIRMAN GRIFFON: That was what
22 we -- so some of these PERs it was sort of

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1 unclear whether it was already internally
2 happening with NIOSH or it was a result of the
3 audit.

4 MR. HINNEFELD: Right.

5 CHAIRMAN GRIFFON: So we agreed to
6 that kind of phrasing.

7 MEMBER MUNN: You could probably
8 do what you wanted to do, but inserting the
9 word positive between several and changes, or
10 --

11 CHAIRMAN GRIFFON: That's what I
12 was thinking of, actually.

13 MEMBER MUNN: Or you could --
14 instead of saying, several changes, you could
15 use the word improvement. In either case, I
16 think it's what you're trying to convey.

17 CHAIRMAN GRIFFON: Have made
18 improvements instead of several changes. All
19 right, I'll make that change. And I'll open
20 it up to others. Any comments on the letter
21 itself? It's the third or fourth time we
22 looked at this. So it should be, hopefully,

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1 pretty close.

2 MEMBER MUNN: I think we should
3 keep those.

4 CHAIRMAN GRIFFON: Okay. And then
5 the -- then the question comes to the QC
6 follow-up, and I think I'll turn this over to
7 Doug just to describe what you did and the
8 three documents that we have in front of us.

9 MR. FARVER: Basically the
10 question comes down to do you want to take it
11 from the first 100 cases, sets one through
12 five, or do you want to take the findings from
13 the first eight cases? So the first eight
14 sets, 178 cases?

15 So I went through the eight sets,
16 pulled out all the findings that appear to be
17 quality-related or were marked as quality-
18 related, and we counted the word quality. Now
19 for the first five sets, there is a category
20 column that is usually marked, procedural,
21 quality, something like that.

22 So the first five sets, the

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1 quality ones were pulled out and any that
2 looked to be in obvious error, like the dose
3 model was missing or something. So that was
4 the five sets. And then the sixth, seventh
5 and eighth set, I pretty much went through and
6 eyeballed it and picked out ones that I
7 thought were quality-related, the dose for
8 1947 was missing or something like that.

9 The one document has, I think, 208
10 findings over the eight sets. Then I broke it
11 down into the -- I pulled out ten cases with
12 the first five sets, and pulled out findings,
13 once again, that I thought were more obvious.

14 You know, the dosage missing, the photon dose
15 was calculated incorrectly, things like that;
16 something that was more tangible to look at.

17 Then I also picked out 11 cases
18 for the one through eight sets. The reason
19 for 11 cases is it gives a little better
20 distribution of the technical elements. If
21 you look at our table two of our audit report,
22 there's technical elements like whether it's

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1 photon or deep dose or shallow dose and so
2 forth.

3 So I went and sorted it by those
4 elements to see if we get a better
5 distribution. This gave a little better
6 distribution with 11 cases for the first eight
7 sets than ten.

8 Also on the first five sets, there
9 were several maximizing overestimate-
10 underestimate cases. We didn't look at that
11 many dose-estimate cases, as opposed to the
12 later sets where it was more best estimate and
13 that's why you'll see for the ones I pulled
14 out for sets one through eight, it's more
15 weighted towards the sixth, seventh and eighth
16 sets because those were more best estimate
17 cases.

18 CHAIRMAN GRIFFON: And I guess the
19 reason I asked Doug to send us both options,
20 and we could kind of discuss it here is -- I
21 mean the -- I guess I can kind of argue either
22 side of this. If we wanted to strictly stick

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1 to the first 100 cases, then we should
2 probably stick to cases from those first 100
3 cases.

4 On the other hand, if the -- the --
5 - going through the eighth set kind of brings
6 us up to where we've gone through with our
7 resolution process. We haven't completed the
8 eighth set, but it brings us sort of current
9 as to where we are right now. And if we're
10 looking to give information -- useful
11 information to NIOSH, I think we would
12 probably get better cases to look at by going
13 through to the eighth set.

14 So that's -- as far as having
15 useful recommendations to actually make a
16 difference or improve the program, I think
17 chances are better that if we went through the
18 eighth set because, as Doug pointed out, we
19 have many more best estimate cases come up in
20 the seventh and eighth set.

21 MEMBER MUNN: Well, then there's
22 also -- there's also the fact that -- that it

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1 behoooves us, I think, to maintain the
2 information that we distribute on the most
3 current level possible. When we -- when we
4 report on the first 100 cases, and we're
5 actually well beyond that, then we keep
6 encountering comments, like, yes, but since
7 then we've done.

8 CHAIRMAN GRIFFON: We've already
9 done that. Right, right.

10 MEMBER MUNN: So it seems only
11 logical to me that we would work from the
12 electronic data, even if it does overrun the
13 boundary of the original 100 cases.

14 CHAIRMAN GRIFFON: That was my
15 feeling as well. I brought that up because I
16 know it came up. I was looking at the
17 transcripts from the last call, and there was
18 some discussion about that, and I didn't know
19 that we necessarily came to any conclusion.
20 So I just thought we'd consider both options.

21 But my opinion was to go with the
22 -- first through the eighth set, and I'm not

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1 sure of the path forward. I think the
2 Subcommittee can task SC&A to do this at this
3 point, right? I mean, the full Board doesn't
4 have to take an action to pass this. This is
5 all under the auspices of DR review, right?

6 So if we're comfortable with the
7 approach and the -- and the cases that are
8 selected -- I looked at these, and I was
9 looking at -- and the other thing that I liked
10 about the one through eight, I think we had a
11 better representation of the technical
12 findings, although the scope sort of covered
13 all the categories on the first through fifth,
14 but I think we better cover the categories on
15 the first through eighth set and I thought
16 that was important that we sort of look at the
17 variety of QC findings that we've seen, not
18 all biased towards one or two types of
19 findings.

20 So that would be my -- my notion
21 right now is to have SC&A move forward with
22 investigating these selected cases and then

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1 document the first through eighth sets.

2 MEMBER MUNN: Well, if Mike agrees
3 to that, the people who are here today get to
4 make that decision.

5 CHAIRMAN GRIFFON: Well, that was
6 a shorter discussion than I anticipated. All
7 right, so we'll do that, John, if you're
8 making task notes.

9 DR. MAURO: I'm doing that right
10 now.

11 CHAIRMAN GRIFFON: That's an
12 action item.

13 MR. KATZ: So what does the
14 investigation involve?

15 CHAIRMAN GRIFFON: It's going to
16 be -- Doug where do you see the -- this is the
17 pulling the thread on each one of these
18 findings, I believe. And actually we talked
19 about going back to the dose reconstructor if
20 possible via phone, I believe, if at all
21 possible.

22 MR. FARVER: Well, I don't know.

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1 I don't know what's available to look at, and
2 I don't think you really know until you start
3 digging.

4 MEMBER MUNN: We may have given
5 you your last task for 2010.

6 MR. HINNEFELD: Well, I'm thinking
7 there -- I would see some participation on our
8 side.

9 MR. FARVER: Actually when this
10 came out, I thought you would be doing this.

11 MR. HINNEFELD: Well, I kind of
12 thought so, but I'm glad to have you do it.
13 The -- it would seem to me there would be some
14 participation on our side of trying to look to
15 say, okay, how did this happen. How did this
16 go out and what are the possible -- what were
17 the failure points here and there something
18 that need to be done to fix that failure
19 point, or has there been something done in the
20 interim that has fixed that failure point?

21 MR. FARVER: Right.

22 MR. HINNEFELD: Things like that.

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1 I mean to me, a lot of this is knowledge that
2 it seems to me that SC&A would have to
3 discover, I think. And it should be -- we
4 would have to go back and remember it. We
5 would have to go back and reconstruct it and
6 remember it, but it should be on our side,
7 assuming these people are still -- still work
8 for us.

9 So it almost sounds like it's sort
10 of ours in terms of doing the bulk of the
11 work. I don't -- and in fact, it could be
12 that Doug takes a look, sees what he thinks
13 the appropriate kinds of actions are and we
14 have a discussion about what we need to look
15 at here because of what we need to check out,
16 and we can either assist with getting him that
17 because at one point or another, we're going
18 to gather it and present it to somebody for
19 evaluation; did we do a decent job?

20 CHAIRMAN GRIFFON: We want to come
21 to some consensus on what the root cause was.

22 MR. HINNEFELD: So to me, I'm

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1 happy to start, as Doug kind of laid it out,
2 getting a vision of what he would think would
3 be done next, maybe looking at what's in the
4 DR records because in the records there is
5 usually quite a lot of files that don't
6 actually show up, that they don't include in
7 the dose reconstruction, but they're
8 supporting files, some of them more than
9 others. And so he may be able to see what's
10 there, and then he undoubtedly will not find
11 everything he thinks should be found, or he'll
12 see, well, here's where a mistake was done,
13 but I don't see any reason why this mistake
14 was done. I need to get over to that side and
15 hand this off to DCAS, and DCAS needs to then
16 figure out why or how could this mistake have
17 been made.

18 So I'm perfectly happy with kind
19 of letting Doug structure it. And so, that
20 way, at least we have a structure that sort of
21 matches the expectation for delivery because I
22 don't really know what the expectation for

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1 delivery is.

2 CHAIRMAN GRIFFON: Right.

3 MR. HINNEFELD: And then a fairly
4 healthy participation on our side in terms of
5 sorting it out. You know, how did it happen,
6 sort of thing.

7 CHAIRMAN GRIFFON: Right, right.

8 MR. FARVER: And we had talked
9 about it in the past, about the QA checklists.

10 MR. HINNEFELD: Yes.

11 MR. FARVER: Now we might come to
12 find that procedure wasn't even in place until
13 the fourth set or something.

14 MR. HINNEFELD: Yes, and who knows
15 what -- who knows what happened?

16 MEMBER MUNN: We did that --

17 MR. HINNEFELD: Yes, yes.

18 MEMBER MUNN: That was one of our
19 first discussions.

20 MR. HINNEFELD: I think in part of
21 -- see, another part of this where I think
22 some of the discussion has to be -- has to be

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1 our investigation to a certain extent is
2 sometimes you just have to have a candid
3 discussion with the person who made a mistake,
4 and say, hey, there's no ramification here.
5 And it's far easier for them to tell their
6 colleague they made a mistake than to tell the
7 Advisory Board's contractor.

8 So sometimes people -- sometimes
9 people just make mistakes. And so -- so like
10 I said, that's just an easier conversation, as
11 much as we try to include you on here, it
12 sometimes does extend too far beyond these
13 rooms in terms of really having a collegial --

14 MR. FARVER: Not only why they
15 made a mistake, but why wasn't it caught.

16 MR. HINNEFELD: Yes. So you have
17 another conversation. How come this wasn't
18 caught? So there's three people, essentially,
19 you have a conversation with. Who made it?
20 Who peer reviewed it? Who approved it?

21 MEMBER MUNN: You have to check
22 with these people.

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1 MR. HINNEFELD: Yes, it may get
2 down to you have to -- you have to have a
3 candid conversation about the utilization of
4 the check. How faithful are you to the
5 checklist on these reviews?

6 CHAIRMAN GRIFFON: Yes, and I
7 think we're much more interested in if we
8 identify a systems problem more so than a --

9 MR. HINNEFELD: If somebody just
10 made a mistake, I mean -- yes. But
11 figuratively there are supposed to be control
12 points on that.

13 MEMBER MUNN: But if it's
14 systemic, we need to identify it.

15 MR. HINNEFELD: Yes.

16 CHAIRMAN GRIFFON: Emily Howell
17 has a question.

18 MS. HOWELL: I have a question.
19 Do you have a proposed time line for when the
20 review is going to be completed?

21 MR. HINNEFELD: Not by June 1st.

22 MS. HOWELL: No, I know that. I

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1 was thinking more in terms of the ten-year
2 review that NIOSH is undertaking because it in
3 some ways dovetails with what you're looking
4 at. I didn't know if this would -- if you
5 anticipated the completion of it in a year's
6 time or shorter.

7 MR. HINNEFELD: I was hoping
8 shorter than that.

9 (Simultaneous speaking.)

10 MEMBER MUNN: It depends on what
11 you find. It really does depend on what you
12 find and how much individual time can be
13 devoted to it. This is the kind of thing,
14 which, until we at least get into it, I don't
15 see how one can even begin to estimate a time
16 line. That's why I jokingly said to Doug that
17 we had just given him his 2010 job assignment.

18 DR. MAURO: Wait a minute. I just
19 went through a very similar process,
20 structurally a very similar process. We were
21 asked to look at all the Site Profiles, all
22 the proceedings that we ever reviewed for

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1 surrogate data. A lot of respect, searching
2 through the minutiae of these procedures, et
3 cetera, for particular places, one was
4 surrogate data, is not unlike searching
5 through all the dose reconstructions, where
6 were there what we would consider to be
7 quality data.

8 And now, I hate to put Doug on the
9 spot like this. It doesn't take that long.
10 In other words, we were able to go through
11 fairly quickly and it jumps out. We have our
12 checklist. We have our reviews. And from our
13 side, being able -- and as a judgment call of
14 course, pulling out the places where we
15 consider this to be quality-wide is a process
16 that takes some time.

17 But I could tell you right now,
18 we're going to have this thing done in a
19 month. The surrogate data can be done in a
20 month.

21 MEMBER MUNN: I might argue -- I
22 might argue with you on one point, and that is

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1 when we're talking about surrogate data,
2 there's no question about what we're talking
3 about. The words surrogate data.

4 DR. MAURO: They just jump off the
5 page.

6 MEMBER MUNN: They appear there,
7 and you can do a computer search for surrogate
8 data. You can't do a computer search for
9 quality.

10 DR. MAURO: I stand corrected.

11 MEMBER MUNN: You really can't,
12 and it's one of the things that whoever sets
13 up the framework for it needs to understand
14 you're going to burn a lot of midnight oil and
15 go through a lot of meetings to be pulling out
16 and making actually intelligent decisions
17 about is this or is this not a quality issue?
18 Is this simply an oversight or is this
19 something else?

20 MR. HINNEFELD: Now we're dealing
21 with the selective ones, the selective
22 findings?

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1 MEMBER MUNN: Yes.

2 MR. HINNEFELD: Because it's a
3 manageable number.

4 CHAIRMAN GRIFFON: Well, that's
5 why we --

6 MR. FARVER: And I mean some of
7 those might not have a resolution.

8 MR. HINNEFELD: Yes. Okay, so --

9 CHAIRMAN GRIFFON: But you did try
10 to pick ones that were --

11 MR. FARVER: I did try to pick
12 ones that were very tangible, dose was not
13 there, the wrong year was entered, or
14 something like that.

15 DR. MAURO: How about errors in
16 calculation? What about a number that's five
17 times the other number? Is that a quality
18 issue? We had one before.

19 MEMBER MUNN: It may or may not
20 be. That's where the judgment call is.

21 CHAIRMAN GRIFFON: Yes, yes. That
22 may be an outcome, too, of the -- after you

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1 look into it, you may say that we found -- we
2 investigated this finding, and found that it
3 wasn't a quality finding, really. It was
4 this.

5 DR. MAURO: You know what? We run
6 into the same situation on surrogate because
7 our definition of surrogate is very narrowly
8 defined.

9 CHAIRMAN GRIFFON: Yes.

10 DR. MAURO: And depending on how
11 you define surrogate depends on what comes in
12 or doesn't go in.

13 CHAIRMAN GRIFFON: Yes, yes.

14 DR. MAURO: You're doing the same
15 thing here. What are you defining as a
16 quality issue? What are the boundaries?
17 Because I guess we all see that through a
18 different lens, and someone may define a
19 quality issue very narrowly, and that's going
20 to be the hard part.

21 MR. FARVER: It was special when
22 you had to select them out and you're kind of

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1 looking at just a matrix.

2 MEMBER MUNN: Yes.

3 MR. FARVER: So that's why I kind
4 of looked at where they missed a 1987 shallow
5 dose. It wasn't entered in the IREP data. I
6 mean that's something tangible we can go back
7 and look at and it's probably something that
8 should've been caught with the QA checklist
9 because I believe you're supposed to sum up
10 the different years.

11 MR. KATZ: The only question I
12 have about the process, as sort of Stu was
13 discussing, not knowing where this was going
14 to start, whether it was going to start with
15 DCAS or with SC&A, and if SC&A is identifying
16 the cases that you have, then we'll -- but if
17 SC&A is then to take the next step of going
18 through the files and trying to turn over all
19 the bones to try and figure out how it
20 happened, it seems like that's inefficient.
21 It seems like DCAS is better doing that part.

22 DR. MAURO: You know, I mean by

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1 way of process, this is the Board's goal, and
2 the contractor's, to say, listen, we went
3 through the process on your behalf and in our
4 judgment, these are the places where we have
5 some quality problems. That's the rock we're
6 going to stand on.

7 Now, certainly, there could be
8 debate on what could be considered -- and
9 that'll be judgment made by the Work Groups,
10 but once we've identified this is where we
11 think the quality problems are, then I think
12 at that point, we're out of it. Then it goes
13 over, and then -- then the dialogue starts,
14 where Stu would say, I really don't think
15 there's a quality issue. Here's why. And
16 somehow, whether this is a one on one between
17 SC&A and NIOSH or this is something that is a
18 dialogue that is engaged by either work group,
19 that's your decision.

20 MR. KATZ: So my point is I think
21 I misunderstood what Stu said because I think
22 I thought I understood Stu to say, it's great

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1 if Doug actually goes through the case and
2 tries to figure out how it happened. And it
3 seems to me, that's much more efficiently done
4 by --

5 MR. HINNEFELD: That's more
6 efficiently done by --

7 MR. KATZ: -- you folks. And by
8 Doug just spending the time to try to figure
9 out how that occurred at the first step seems
10 --

11 CHAIRMAN GRIFFON: Well maybe it
12 does start there, then. I mean, you've got
13 the selected cases. So at this point, if we
14 return to NIOSH and say, at least you take a
15 preliminary shot at that, my feeling is that a
16 lot of this -- I want that dialogue between
17 Doug or whoever and NIOSH, not on the
18 subcommittee level, but then every
19 Subcommittee meeting I plan on putting this on
20 the agenda and it's getting a report back of
21 where you're at or whatever.

22 And if you come back and if your

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1 matrix maybe dropped off five of them because
2 it turned out they weren't -- you know, there
3 was no resolution possible or it wasn't a
4 quality finding or whatever, and that is
5 agreed on and you report back on that kind of
6 stuff, then we'll proceed that way.

7 MR. HINNEFELD: You're thinking of
8 a root-cause kind of thing.

9 CHAIRMAN GRIFFON: Yes, I'm
10 thinking of a root-cause kind of thing.

11 MR. HINNEFELD: There are a number
12 of root-cause tools out there.

13 CHAIRMAN GRIFFON: I'm sorry?

14 MR. HINNEFELD: I said there are a
15 number of root cause tools out there --

16 CHAIRMAN GRIFFON: Right, right.

17 MR. HINNEFELD: -- that you could
18 use for root cause analysis.

19 CHAIRMAN GRIFFON: My feeling is
20 if NIOSH looks into that end of it and comes
21 up with an opinion on that, and then we might
22 want SC&A to look at that and say, yes, we buy

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1 this, too, or, wait a second. I'm not sure.

2 That way, SC&A would come back in.

3 DR. MAURO: Yes. How much of that
4 is off-line? What I mean by that is I could
5 envision --

6 CHAIRMAN GRIFFON: Well, when they
7 come up with their final sort of, here's what
8 we think happened, I think that's on-line.
9 But in between that is off-line.

10 DR. MAURO: Okay.

11 CHAIRMAN GRIFFON: Right? Does
12 that make sense?

13 MR. KATZ: Yes. You guys are
14 going to have to --

15 DR. MAURO: And if you'd like an
16 assembly for it, Doug can be doing this on a
17 one-on-one basis or whatever.

18 CHAIRMAN GRIFFON: Yes.

19 DR. MAURO: Come back and say,
20 this is the process we went through.

21 CHAIRMAN GRIFFON: Yes.

22 DR. MAURO: Like we always do on

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1 any technical call. Make a report about a
2 technical call and the degree to which any
3 member wants to sit in on a technical call,
4 that nature is your call and we have a
5 recorder. Hopefully the ideal situation would
6 be to bring back to the Work Group issues or
7 whatever, and we're in agreement that this was
8 a quality issue, and then NIOSH of course
9 would explain what action was taken or not,
10 and it becomes really clean.

11 CHAIRMAN GRIFFON: And I don't
12 expect you to use a recorder. Or take minutes
13 do you mean?

14 DR. MAURO: That's what I mean
15 when I say recorder.

16 CHAIRMAN GRIFFON: Yes.

17 DR. MAURO: I think there's a
18 point that we keep minutes --

19 CHAIRMAN GRIFFON: Keep minutes so
20 we know the process, right? But we don't need
21 to be -- it wouldn't work at the subcommittee
22 level. I think it's much better to do it the

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1 other way. That makes sense for a path
2 forward now that I'm listening to more -- I
3 think the ball is in NIOSH's court to start,
4 but then extending that any time they need to
5 talk to SC&A for clarification, for -- you
6 know, just to move the process, then that can
7 happen.

8 All right? And not a year, Emily.
9 We're shooting for less than one year. I
10 mean I really don't think -- I had in mind
11 more like three or four months. But maybe
12 that's a little ambitious, too.

13 MR. HINNEFELD: That's a little
14 ambitious given where we are on our June 1st
15 objective and other stuff. But I would hope
16 to proceed somewhat apace. Whenever we start
17 into this, we're going to disrupt people who
18 are doing reconstructions. So we'll have to -
19 - I'll have to work carefully with our
20 contractor to -- to make progress on this and
21 not disrupt what's kind of a delicate progress
22 toward that June 1st objective.

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1 So -- so it'll be a little
2 cautious, and we'll need really close
3 coordination on their side. I'll need to
4 clearance through their -- I'll have to get
5 their project management on board, and down to
6 the people; get it down to the people who are
7 going to be helpful on that. I've got a
8 couple people in mind, and see what that does.

9 So it -- if this person really
10 spent some time on this, what would that do to
11 this other broader objective for Dr. Howard --
12 I really can't go to John and say, I didn't
13 make it because we diverted things. I really
14 can't do that. Brant has questions in his
15 eyes. So I'm --

16 DR. ULSH: Well, are we proposing
17 an alternative to Mark's three or four months?
18 Maybe six months, until we get more
19 information.

20 MR. HINNEFELD: I think six is
21 more realistic. I would like to beat that
22 just for program-review purposes. I just

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1 don't know that I can. But I'll know more
2 after some conversations with the contractors.

3 CHAIRMAN GRIFFON: And it may be
4 that it overlaps with your other --

5 MR. HINNEFELD: It may be. It is
6 relevant. You could even say, well, if you've
7 got systemic quality problems, it's really
8 worth your while to be rushing out of dose
9 reconstructions given those systemic quality
10 problems. So you can make the argument either
11 way.

12 I mean I know what I talk to John
13 about every Friday is are we going to make
14 June 1st?

15 MEMBER MUNN: Well, one argument
16 you can't deny, though, is the fact that to
17 make estimates in any project without having
18 discussed it with the folks who do the nitty
19 gritty is a serious matter.

20 MR. HINNEFELD: Yes. All I would
21 ask is that maybe at the next Subcommittee
22 meeting, you come back and we discuss the time

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1 line a little more, and we'll have a little
2 more input by that time.

3 MR. KATZ: And six months is still
4 within the time frame of the program review
5 anyway.

6 MR. HINNEFELD: Okay.

7 MR. KATZ: You're not blowing the
8 time frame for that with this.

9 MR. HINNEFELD: Okay.

10 MS. HOWELL: And I just wanted to
11 clarify because we're up to like set 12 or
12 something now, aren't we?

13 CHAIRMAN GRIFFON: Yes.

14 MS. HOWELL: So that eight, do we
15 have like a -- what date or claim number does
16 that actually go up through? Do we know?

17 MR. FARVER: Seventy-eight.

18 MR. HINNEFELD: Well, we can --
19 what are you interested in?

20 MS. HOWELL: I'm trying to --
21 because I want to be really clear that this
22 process of reviewing the QA/QC is actually --

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1 it's a snapshot in time that is in our past
2 because it doesn't go up --

3 CHAIRMANAN GRIFFON: It's still in
4 the past, yes.

5 MS. HOWELL: Right. So what -- do
6 we have any idea what date? Is that like two
7 years ago maybe?

8 MR. HINNEFELD: Well, I could find
9 out. What I -- what I would propose to do
10 would be to say what was the date -- would be
11 the latest completion date for dose
12 reconstruction of any of them in the first
13 eight cases.

14 DR. MAURO: The eighth set I have
15 -- I have some eighth sets here, and they're
16 May 2008.

17 MR. HINNEFELD: Well, that was
18 your review.

19 DR. MAURO: Our review?

20 MR. HINNEFELD: That was your
21 review. So if that's the -- see, my point is
22 that the technical work that is being

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1 evaluated was done at the completion date of
2 the draft dose reconstruction. Okay, that is
3 how -- that is the latest date of the
4 technical work that was evaluated in that
5 eighth set review. So we can find that. I
6 don't have it available now, but we can find
7 that, and that would then be -- this would
8 reflect the quality of work up through that
9 date.

10 Now unless we can say in response
11 to some of these, these things have been done
12 in the mean time so that we feel like that
13 mistake won't happen any more, unless we can
14 make that statement, there's no reason to
15 believe that it's any different today than it
16 was then. Isn't that right QA thinking?

17 CHAIRMAN GRIFFON: Yes.

18 MEMBER MUNN: But it's a mistake
19 that we made repeatedly. The work books
20 themselves will do --

21 MR. HINNEFELD: I would think the
22 work books would change a lot of these things.

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1 I would think they would --

2 CHAIRMAN GRIFFON: The nature of
3 our review though is I don't think -- because
4 I did think of that, Emily, that we're up to
5 the full set, and maybe we should -- we really
6 can't bring up any -- include any cases in
7 here that we haven't at least discussed at the
8 subcommittee level. So I thought we'd go
9 through the eighth set. Stop me if you want
10 to -- anyway. All right, so, that'll be our
11 path forward. NIOSH will start the ball
12 rolling, and at the next subcommittee maybe
13 give us a little bit of sense of the time
14 line, if possible.

15 Anything else from that? All
16 right, so we're good. We're good on the first
17 100 case report. We can move to the sixth set
18 of cases. I'm going to pull the document up,
19 but I believe it was only one finding left.
20 Does anyone know -- I'm scanning through to --
21 104.7?

22 MR. FARVER: Oh, 104.7.

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1 CHAIRMAN GRIFFON: Is that right?

2 MS. BEHLING: 107.4.

3 CHAIRMAN GRIFFON: Okay, 104.7 has
4 been resolved. I still have some yellow
5 highlighting, which I should get rid of.

6 MEMBER MUNN: It is done, right?

7 CHAIRMAN GRIFFON: Yes, I believe
8 it is done because the 11/5 indicates that one
9 was transferred to a TBD-6000 group. Okay,
10 let's see, 107.4, okay, is there any update
11 from NIOSH on this?

12 MR. HINNEFELD: Brant stepped out
13 for a minute.

14 MR. SIEBERT: Mark, Stu had sent
15 it to the Subcommittee on January 7th to close
16 out for this.

17 CHAIRMAN GRIFFON: Okay, January
18 7th?

19 MR. SIEBERT: Correct.

20 CHAIRMAN GRIFFON: Did you get
21 that? We might have to find that one.

22 MR. SIEBERT: For the court

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1 reporter, this is Scott Siebert by the way.

2 Sorry.

3 CHAIRMAN GRIFFON: We got you
4 covered.

5 MR. SIEBERT: Thanks.

6 CHAIRMAN GRIFFON: Scott, do you
7 know the -- I got it here. SC&A sixth set
8 107-4 ORAU response, April 15th? No.

9 MR. SIEBERT: No, it's actually
10 extension -- same thing, except January 2010.

11 CHAIRMAN GRIFFON: Oh. Yes, I'm
12 not sure I have it on my drive, but it doesn't
13 mean that you didn't send it. It just means
14 that I have to find it in my email. SC&A, do
15 you guys have it? Looking.

16 MR. FARVER: I don't have it. You
17 say you sent a response?

18 CHAIRMAN GRIFFON: Yes.

19 MR. FARVER: I don't believe I --
20 I can't find it, and I don't remember seeing
21 it.

22 MR. SIEBERT: Yes, Doug, you were

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1 on distribution on the 7th of January.

2 MR. FARVER: I don't see it.

3 MR. SIEBERT: This was right
4 before the phone call that we had to discuss
5 the first 100 thing.

6 CHAIRMAN GRIFFON: Right.

7 MR. FARVER: I can try to find it
8 on break.

9 CHAIRMAN GRIFFON: Scott, can you
10 forward that one again, and maybe we'll --

11 MR. SIEBERT: I'm going to send it
12 again right now.

13 CHAIRMAN GRIFFON: Yes, forward it
14 to everyone if you could.

15 MEMBER MUNN: What date did you
16 say you sent it?

17 MR. HINNEFELD: The file has a
18 January -- I sent it on Sunday -- what did you
19 say, January 7th?

20 CHAIRMAN GRIFFON: Seventh, yes.

21 MR. SIEBERT: January 7th is when I
22 sent it.

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1 MR. HINNEFELD: January 7th. I
2 thought it was January 2nd.

3 MEMBER MUNN: Okay, I've got it.

4 MS. BEHLING: Perhaps we can just
5 talk about this a little bit, and maybe we can
6 come to some resolution that way. If we can
7 go back and just discuss what the initial
8 finding was, and what discussion we've had
9 since then, would that be of some help?

10 MR. HINNEFELD: I can start that,
11 I think. I've got that up here now.

12 CHAIRMAN GRIFFON: Yes.

13 MS. BEHLING: Okay, because I can
14 start that also. But go ahead, Stu.

15 MR. HINNEFELD: Well, the finding,
16 I believe, is -- let me get that one up.

17 MS. BEHLING: I believe what we
18 were questioning, not to interrupt you, Stu --

19 MR. HINNEFELD: I think it was
20 under what circumstances would you choose an
21 acute intake versus a chronic one. Is that
22 this one?

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1 MS. BEHLING: That's correct.

2 CHAIRMAN GRIFFON: Yes.

3 MS. BEHLING: In this particular
4 case, the individual had urinalysis results,
5 and the first one in 1955 was a positive, and
6 then a year later, it was a positive. I
7 believe that NIOSH initially treated this as a
8 chronic exposure, and we were questioning
9 whether it should have been treated as an
10 acute, either a single acute or multiple acute
11 exposures.

12 And although it doesn't have a
13 large impact on this particular case, the
14 question came to is there something -- and I
15 believe your latest procedure on your bioassay
16 procedure, internal bioassay procedure, does
17 give more direction to the dose reconstructors
18 regarding how to treat a situation like this.

19 CHAIRMAN GRIFFON: Right.

20 MS. BEHLING: Whether it's acute
21 or chronic, or --

22 MR. SIEBERT: I'm sorry to

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1 interrupt, but before we go all the way down
2 that road yet again, the response that I wrote
3 that was sent out in January, and I just sent
4 out again, the actual thing NIOSH was
5 requested to do was to look over the last few
6 transcripts and determine what we had done on
7 this and what the path forward was.

8 And with what I sent, the -- we
9 had actually closed it out numerous times,
10 except for the fact that we wanted to make
11 sure it was transferred over to the Procedures
12 Subcommittee for clarification in OTIB-60 on
13 dealing with the issue. So I just want to
14 throw that out before we got down to the nitty
15 gritty of the issue yet again.

16 MS. BEHLING: I agree. I agree
17 that that's probably the appropriate approach.

18 MR. SIEBERT: And I have sent
19 that. Has everybody slash anybody received
20 that yet?

21 CHAIRMAN GRIFFON: Yes, we got it.
22 We just got it. And Kathy or Scott, you

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1 believe -- Kathy, you said you think the most
2 recent version of which of the internal dose
3 guidelines? Is that what you're saying?

4 MS. BEHLING: Yes. Is it --

5 CHAIRMAN GRIFFON: Sixty, is that
6 correct?

7 MR. SIEBERT: Sixty, correct.

8 CHAIRMAN GRIFFON: Okay, so you
9 think the revision of 60 might account for --
10 or might have better guidance on this issue?

11 MS. BEHLING: I believe it does,
12 yes.

13 CHAIRMAN GRIFFON: Okay, so maybe
14 it does make sense to take it up in -- under
15 Procedures if that is the case.

16 DR. MAURO: I've got to say I'm
17 curious. What is the essence of the
18 resolution?

19 MEMBER MUNN: I'm sorry, I was
20 still trying to find it.

21 MR. HINNEFELD: The essence of
22 this resolution for the dose reconstruction is

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1 to transfer to Procedures --

2 DR. MAURO: Oh, no, but I mean
3 when it goes to the procedure, obviously
4 there's some language in the procedure that
5 deals with these --

6 MR. HINNEFELD: Okay, so the
7 essence of the language.

8 DR. MAURO: The essence of the
9 language. What was the philosophy?

10 CHAIRMAN GRIFFON: Right. Don't
11 keep a secret.

12 DR. MAURO: I want to hear.

13 MR. HINNEFELD: Scott, do you have
14 that handy?

15 MR. SIEBERT: I'm sorry. I was
16 typing. What was that?

17 MR. HINNEFELD: Do you have handy
18 what is -- what there -- your response says
19 there is some language in TBD or OTIB-60 that
20 addresses this. It says it, "Addresses
21 unmonitored and missed dose, but it's
22 applicable to all exposure potentials." Would

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1 be this situation. Can you kind of summarize
2 that or kind of decide what that says?

3 MR. SIEBERT: Sure. Give me a
4 second here to pull it up.

5 MEMBER MUNN: You got my attention
6 when you said Procedures.

7 MR. HINNEFELD: Procedures, yes.

8 MEMBER MUNN: Now just a minute.
9 I was looking at something else. So we are
10 talking about OTIB-60. I guess I better make
11 a note of that.

12 MR. SIEBERT: Okay. I'm looking
13 at the section.

14 MS. BRACKETT: This is Liz
15 Brackett. I'm the author of OTIB-60, so.

16 MR. HINNEFELD: Okay, Liz, have
17 you been in on this entire discussion?

18 MS. BRACKETT: I came in during
19 it, but I did hear the last little bit about
20 resolving the issue, although I didn't hear
21 the beginning of the particular issue we're
22 closing out, but if -- this OTIB has not been

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1 revised yet.

2 There is -- right now, as far as
3 addressing chronic or positive results over
4 time, it does say, "If the majority of results
5 are positive and scattered throughout the
6 intake period, use all results to do the
7 intake assessment." And I thought that it
8 said that -- to assume a chronic intake
9 throughout the period, although I'm not seeing
10 that specifically.

11 CHAIRMAN GRIFFON: No, that
12 doesn't -- that gets pretty broad.

13 MS. BRACKETT: It is pretty
14 generic because it's always going to be on a
15 case-by-case basis. But I'm trying to think.
16 I'm pretty sure that it said if you have a
17 lot of positive results scattered throughout
18 time, then just assume one long chronic intake
19 throughout.

20 MR. SIEBERT: Yes, there it is.
21 It's the third paragraph in section 5.4.1,
22 missed dose determination. So to calculate a

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1 missed dose, a chronic intake through the
2 possible exposure period is assumed. And then
3 in section -- back up to 5.4.3 again.

4 MS. BRACKETT: I've been working
5 on modifying this so my section numbers are
6 changed.

7 MEMBER MUNN: Yes, we've had quite
8 a bit of conversation about that somewhere,
9 where I was -- and I don't remember when.

10 MS. BRACKETT: Yes, we have
11 discussed extensively, and I have been
12 modifying this. But a number of different
13 numbers have come up related to this OTIB, and
14 I've been working on integrating all of them,
15 and this one in particular giving more
16 specific guidance on fitting positive data.

17 DR. MAURO: Could I just ask a
18 simple question? On this particular case,
19 what I just heard is that you got a
20 measurement and -- I mean one measure made in
21 one year; a year passes, and then you got
22 another measurement.

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1 MS. BRACKETT: Right.

2 DR. MAURO: Now of course it could
3 be S or F. You got these two numbers. I
4 could say, you know, chronic may not work when
5 you're in -- I agree if you got one every two
6 months, maybe chronic will work. You got one
7 in a year, and depending on the chemical form,
8 I do not have an intuitive feeling on which
9 strategy would be the most appropriate in the
10 circumstance.

11 It's almost as if you don't have
12 enough data to do it, and you have to use your
13 coworker model. I mean in a funny sort of
14 way. Does my coworker model -- I would almost
15 say, "Well, listen. Just do measurements,
16 especially if it's M or S or M or F. You
17 really don't have enough data to reconstruct
18 this guy's dose if you don't know when -- what
19 happened in between. What are you left with?
20 You're left with a couple of numbers and a
21 coworker model. That's how you do this.

22 MEMBER MUNN: And this is almost

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1 the exact discussion we had at the November
2 Procedures meeting.

3 MS. BRACKETT: Right, but I would
4 say almost 90 percent of the cases minimum you
5 don't have enough data. You don't know
6 anything.

7 MEMBER MUNN: Yes, right.

8 MS. BRACKETT: You very rarely
9 have an intake large enough that gives you
10 enough data to do a decent fit. And so the
11 dose reconstructor has to try all possible
12 material types, and I did find a section -- I
13 don't know what the magnitude of these results
14 are.

15 So maybe this doesn't apply, but
16 there is one set that says, "A single chronic
17 intake can also be fit when there are only
18 intermittent positive results that are
19 relatively small. For example, within a
20 factor of two of the MDA. This could be
21 representative of a low level chronic intake
22 to slow the MDA." And so -- so the guidance

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1 is these results are not much above the MDA to
2 fit one single chronic intake throughout the
3 possible exposure because you don't know
4 anything else.

5 MR. SIEBERT: Yes.

6 MS. BRACKETT: And you would try
7 all the material types to come up with
8 whichever gave you the largest.

9 MR. SIEBERT: That's the third
10 bullet in the present guidance 5.3.2, which I
11 also mention at the end of that additionally
12 there is a section on handling positive
13 results 5.3. It's in there as well word-for-
14 word, which Liz just said.

15 MR. HINNEFELD: But our
16 recommended response is that we could be --
17 this finding could be closed.

18 DR. MAURO: Yes, maybe this is a
19 Procedure discussion.

20 MR. HINNEFELD: And it could be a
21 Procedures discussion when we're prepared to
22 talk in general about it, OTIB-60.

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1 DR. MAURO: I think it is. I
2 thought maybe it would be real nice to get a
3 straightforward, "Okay, yes, that makes
4 sense." And then tomorrow, we can move pretty
5 quickly. But what I'm hearing is there's more
6 to the story, and the fact is transferred over
7 to Procedures, is where it should be.

8 Because this particular case, for
9 example, when you have one sample one year and
10 then another one a year later -- I don't know
11 what you'd do.

12 CHAIRMAN GRIFFON: The other thing
13 that interests me here is the -- the -- and I
14 haven't looked back at the original findings.
15 I'm looking at the matrix. Sometimes you
16 miss some details.

17 But it says that, "The method is
18 not scientifically sound nor claimant
19 favorable," and I guess the question I would
20 ask based on what Liz just said is if the --
21 did the dose reconstructor in this case, and
22 107.4 would be our case, is try all the

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1 possible -- possibilities. Or did they just
2 look at chronic and try the various
3 solubilities for chronic and stop there? They
4 didn't look at the possibility of multiple
5 acutes. And if multiple acutes, would it
6 result in a higher dose?

7 And in that case, I'm wondering if
8 you have a -- sort of the findings --

9 DR. MAURO: This is a very
10 forensic --

11 CHAIRMAN GRIFFON: You have the
12 regular generic finding, which is that what's
13 our -- is there any way that the OTIB-60 can
14 be revised to give the DR more guidance in
15 these kinds of situations? But this is a
16 specific question of whether they gave them
17 the most claimant favorable dose. Given that
18 you were lacking information, did you -- did
19 they make the most claimant favorable
20 assumption?

21 MS. BRACKETT: Well, I mean they
22 are not told to try every possible scenario to

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1 come up with a single largest dose possible.
2 That -- we would be spending six months on
3 every case if that were the --

4 CHAIRMAN GRIFFON: Okay. I just
5 wanted clarification on that.

6 MEMBER MUNN: Well, besides, it's
7 unreasonable.

8 MS. BRACKETT: Right, and that's
9 why -- I mean the OTIB pretty much tells them
10 assume a chronic intake for such. That bullet
11 that I read, that's what it says to do if you
12 have intermittent positive results spread over
13 time. Because it's the same as doing missed
14 dose. We don't try to fit individual acute
15 intakes between every -- you know, if a person
16 had annual samples, and they were all below
17 MDA, we would assume a single chronic intake
18 unless there's evidence in their file that
19 tells you otherwise that that something else
20 should be assumed, and that would be the case
21 for the positives also.

22 But if you just have low level

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1 positive results, then the assumption of a low
2 level chronic intake is -- is what you would
3 do. Again, just because you don't know what
4 else might've happened. If you had multiple
5 acute intakes, it would look pretty much the
6 same as one long chronic intake. And so
7 that's the rationale behind assuming this one
8 long chronic intake.

9 DR. MAURO: And Liz, I would argue
10 on your -- in support of your position if you
11 -- if you get a rating from a person where you
12 got a strong positive result. Not MDA, not
13 plus MDA, but ten times the MDA.

14 MS. BRACKETT: Sure.

15 DR. MAURO: And you got a
16 measurement. And there should be some
17 argument to be made that if that happens, and
18 they don't follow up each month after, that
19 doesn't make sense. And I would really be
20 nervous about that. I'd say, "Why didn't they
21 follow up?"

22 So there's a collection of common

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1 sense arguments you would make. But I would
2 agree with you if I take a measurement of a
3 person and it's below or real close to the
4 MDA, and then the next time I see a
5 measurement it's below or close to the MDA a
6 year later, that seems to make sense.

7 Why would you have an intensive
8 program following someone that you're really
9 not seeing anything and you have no reason to
10 believe there's necessarily a problem? But if
11 I see a positive hit, a strong positive hit,
12 and I don't see any follow up measurements
13 after that, I would get a little nervous.

14 I'd say, "Why didn't they follow
15 up with this guy? This guy obviously is doing
16 a job where he's taking something in. And we
17 don't see another measurement for a year
18 later?" This is kind of --

19 CHAIRMAN GRIFFON: Or are we
20 missing data?

21 DR. MAURO: Are we missing data,
22 or what's going on?

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1 MS. BRACKETT: Is that the case
2 here? Like I said, I don't -- I didn't know
3 what the magnitude of these results were.

4 MR. SIEBERT: No. This case is
5 way back early on in Savannah River where
6 they're not marked as less than values, but
7 they're actually less than the default MDA we
8 have for the time frame.

9 CHAIRMAN GRIFFON: That's correct.

10 MR. SIEBERT: So since they're not
11 marked as less than, we've kind of -- we've
12 had to go back to the assumption that they're
13 positive, even though I don't personally think
14 that these are probably positive results or
15 below the MDA of the time.

16 DR. MAURO: Take them at face
17 value. Everything makes sense.

18 CHAIRMAN GRIFFON: That answers my
19 question. I thought I heard positive results,
20 but they're positive but they're not -- yes.

21 DR. ULSH: Okay, so given that
22 situation for this case, what I heard earlier

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1 was we're going to transfer this to the
2 Procedures Working Group.

3 CHAIRMAN GRIFFON: Right.

4 DR. ULSH: Am I still hearing
5 that, or are we going to attempt to resolve it
6 now?

7 DR. MAURO: What I would recommend
8 now is I would say set up the procedure and
9 close this because that answer solves my
10 problem.

11 DR. ULSH: Okay, so when we send
12 it to Procedures, what are we asking that
13 Procedures group to do?

14 MR. HINNEFELD: Probably -- well,
15 during discussion of OTIB-60, what we want to
16 do is see if there's enough clarity. Liz said
17 she is working on this and other things.
18 Presumably, TIB-60 is in abeyance in the
19 Procedures vernacular until such time as we
20 have a product.

21 CHAIRMAN GRIFFON: Okay. I think
22 TIB-60 is already -- I think we're already

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1 somewhere in there with looking at the chronic
2 versus acute. I'm sure we are.

3 MEMBER MUNN: I don't know whether
4 --

5 CHAIRMAN GRIFFON: We've discussed
6 it many times.

7 MEMBER MUNN: I don't know whether
8 it's TIB-60 or not, but this specific case and
9 this specific scenario has been discussed
10 literally for hours in Procedures.

11 DR. MAURO: But it sounds like
12 there is a revision going on.

13 CHAIRMAN GRIFFON: Yes.

14 MR. FARVER: We could make it
15 stronger than OTIB-60, because right now it
16 says, "a single chronic intake can also be
17 fit." It just tells about things that can be
18 done.

19 CHAIRMAN GRIFFON: Right.

20 MR. FARVER: Now, if you wanted to
21 make it a, "should," you know, like in the
22 next bullet when you talk about the various

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1 errors, if you don't have other errors, then
2 you should use this number. Well, go ahead.
3 If that's what your policy is going to be, if
4 it's within a factor of two of the MDA, then
5 you should use a chronic intake.

6 CHAIRMAN GRIFFON: Right.

7 MR. FARVER: Then say that.

8 CHAIRMAN GRIFFON: Right.

9 DR. ULSH: I'm trying to think of
10 -- I mean you don't want to over proceduralize
11 things.

12 MR. FARVER: I understand.

13 DR. ULSH: But you can't
14 anticipate every few weeks.

15 DR. MAURO: I agree with that, but
16 there's a philosophy. See, we just talked
17 about the philosophy, and we were -- we were
18 not that quantitative. It was really a -- and
19 there's a place where you say, "Listen, when
20 you get numbers that are this large." How
21 large that is: more than a factor and two
22 above -- I don't know. But they're going to

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1 demand a certain explanation. Why wasn't
2 there another measurement?

3 But in this case, taking on face
4 value what I just heard, mainly that numbers
5 that were reported in one year, each year, for
6 all intents and purposes have the MDA in that
7 area.

8 CHAIRMAN GRIFFON: What was
9 throwing me off was positives --

10 DR. MAURO: Exactly. I reacted
11 the same way you are. With that not being the
12 case, this issue is closed.

13 CHAIRMAN GRIFFON: They were
14 pseudo positive results.

15 MEMBER MUNN: They were pseudo
16 positive.

17 CHAIRMAN GRIFFON: Right. I think
18 we're done with it here, and we'll transfer it
19 to Procedures.

20 MR. KATZ: And for Procedures, it
21 doesn't really hit the agenda until you come
22 out with the revised TIB-60. Is that what I

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1 heard?

2 MR. HINNEFELD: Well, I have to go
3 refresh my memory, but if we're working on a
4 revision to OTIB-60, and it's including -- if
5 it's in response to the review, then it sounds
6 to me like it would be --

7 CHAIRMAN GRIFFON: I think that
8 was already an issue TIB-60. So --

9 DR. MAURO: We could talk about
10 it, and based on the discussion we have
11 tomorrow regarding this matter, and if there's
12 agreement in principal, even though it's not
13 actually formally in the procedure, it's in
14 abeyance.

15 MR. KATZ: No, I'm just trying to
16 keep track of the agenda. That's good. Thank
17 you.

18 CHAIRMAN GRIFFON: Are there any
19 others in the sixth set? That closes out the
20 sixth set, I believe.

21 MEMBER MUNN: Scott, did you --
22 was it you who said you sent that -- just

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1 resent that message?

2 MR. SIEBERT: Yes, ma'am.

3 MEMBER MUNN: You must've sent
4 that to my CVC address, and I don't have my
5 toggle with me, which is going to be fun
6 tomorrow. So, would you please send it to my
7 AOL address?

8 MR. SIEBERT: My fingers are
9 poised.

10 MEMBER MUNN: Thank you so much.

11 MR. SIEBERT: What's the address?

12 MEMBER MUNN: WIMUNN -- that's all
13 right. The whole world knows it anyway.

14 CHAIRMAN GRIFFON: Okay. If
15 that's okay, let's take a quick ten-minute
16 break, just a comfort break, and we'll start
17 with the seventh set when we come back.

18 (Whereupon, the above-entitled
19 matter went off the record at 10:38 a.m., and
20 resumed at 10:51 a.m.)

21 MR. KATZ: Okay, we are
22 reconvening after a short break. It's the

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1 Dose Reconstruction Subcommittee.

2 CHAIRMAN GRIFFON: All right, we
3 are on the seventh set of cases. The first
4 one I have open is the first one, 121.1. I
5 indicate that remains the NIOSH action item
6 from my last note. And Stu and Brant, I'm not
7 sure, but we got at least two responses from
8 this set for you. It's the 130 and 133 I
9 think, or something like that. Not 121 I
10 know.

11 DR. ULSH: Yes, I see where you
12 have, "Remains a NIOSH action item." I don't
13 think that we have a resolution yet. Scott,
14 am I -- are you there?

15 MR. SIEBERT: This is Aliquippa
16 Forge, and I believe it has to do with
17 comparisons of OTIB-70 and 6,000.

18 CHAIRMAN GRIFFON: That's correct,
19 yes.

20 MR. SIEBERT: No, I'm not aware of
21 anything that you guys have yet.

22 CHAIRMAN GRIFFON: This is just

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1 going to remain open, all right? And 120,
2 that carries through for the next one, Stu,
3 I'm sure. How about 122.1? The validity for
4 the approach for the job in question. I think
5 this was that particular worker, John. This
6 must be one of your cases --

7 DR. MAURO: Yes. This was

8 CHAIRMAN GRIFFON: -- where you
9 had a question whether he'd fit in the 95th.
10 He was probably the job that was the extreme,
11 or potentially extreme --

12 DR. MAURO: Furnace operator, yes.

13 CHAIRMAN GRIFFON: Yes.

14 DR. MAURO: This is Simonds Saw
15 furnace operator. Whenever I hear furnace
16 operator, I say to myself, "You can't use the"
17 -- we've got a special problem here.

18 CHAIRMAN GRIFFON: Yes.

19 DR. MAURO: And expanded cookbook
20 for using the geometric means. Yes, again, I
21 thought about it conceptually. At Simonds
22 Saw, for external exposure, for example, you

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1 got all these film badges that were hiding; 20
2 film badges hiding. You got some readings
3 coming from them. Take the geometric mean of
4 those film badges, and say, "Okay, this is
5 what we're going to find as the external
6 exposure to workers based on film badge
7 readings."

8 And the only concern I have is,
9 well, that's fine for probably most workers,
10 but this guy was a furnace operator. And the
11 kind of environment he's in is a lot different
12 than the rest of the workers, and as a result
13 perhaps a higher end of the distribution from
14 the film badge readings would make more sense.

15 I believe that's where we are.

16 CHAIRMAN GRIFFON: Right.

17 DR. MAURO: And there was also
18 some question that as a furnace operator, he
19 worked all the time with billets as opposed to
20 rocks. The cookbook -- I shouldn't call it a
21 cookbook. The exposure matrix has a very
22 standard approach, where it says, "Everyone is

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1 going to be outside external exposure, at
2 least one foot away for three-and-a-half hours
3 a day to a reference billet, and to a
4 reference rod."

5 Now, it turns out for him being
6 the furnace operator, he's working only with
7 billets. In other words, he's just cooking
8 the billets to warm them up so they can be
9 rolled. Those have an external dose that are
10 higher. You know, MR per hour and a foot.

11 They're higher than rods, and
12 maybe about a factor of, I don't know, maybe
13 30, 40 or 50 percent higher. So, in other
14 words, what I'm getting at is in this
15 particular case, we felt that the basic
16 approach used in Simonds Saw was largely
17 pretty good in terms of reviewing the Site
18 Profile, but when you apply it to a guy who is
19 a furnace operator, you got to start saying,
20 "Well, wait a minute. We got to tweak this
21 guy a little bit because we know these are the
22 kinds of things we did; that one size does not

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1 fit all, at least not for him."

2 And I think that's the essence of
3 what our concern was here.

4 MR. FARVER: It is covered in
5 122.1 and 122.3.

6 CHAIRMAN GRIFFON: Right. Scott,
7 did you -- well, I should say Brant, did you -
8 -

9 DR. ULSH: I'm going to defer to
10 Scott anyway.

11 CHAIRMAN GRIFFON: Okay.

12 DR. ULSH: Scott, I don't think we
13 have an objection on this one.

14 MR. HINNEFELD: This may be ours.
15 I mean this was -- yes. It was an AWE dose
16 reconstruction. It's not clear to me that
17 ORAU even prepared it.

18 MR. SIEBERT: Simonds Saw I
19 believe we actually did. Let me check. Yes,
20 we did. However, I don't believe we have --
21 there's any responses on this.

22 MR. HINNEFELD: Yes. I think the

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1 -- as a general sense, I think we get to this
2 part at the end of the matrix. There's some
3 sort of generic mini site profile findings at
4 the end of 8 -- or 7.

5 MR. SIEBERT: That's in the
6 eighth.

7 MR. HINNEFELD: Okay, but it's
8 very similar. I mean the findings are
9 essentially against the site profile and the
10 exposure rate.

11 CHAIRMAN GRIFFON: The coworker
12 model.

13 MR. HINNEFELD: Yes.

14 CHAIRMAN GRIFFON: It is, for this
15 particular individual.

16 DR. MAURO: But this individual,
17 to bring us to closure, is one more aspect to
18 this particular case that we are left with.

19 CHAIRMAN GRIFFON: Yes.

20 DR. MAURO: And we talked about
21 this before when I came in. There was thorium
22 exposure also at Simonds Saw, and the approach

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1 used in the exposure matrix was, "Listen, we
2 have -- HASL came in, and did a DWE, daily
3 wear exposure analysis, of thorium exposures,
4 the operation of thorium activities going on."

5 They did it for one day. Okay,
6 so, they went in there and did a nice job for
7 one day, and they came up with the daily
8 weighted exposure. Here's the exposure we
9 expect people to experience, at least on that
10 day.

11 Now, there were 36 days where
12 thorium was processed at Simonds Saw. So, the
13 question I raised was what do you do when you
14 have a real nice DWE that represents typical
15 exposures, people with you know -- you would
16 expect to experience, so, in other words,
17 pretty representative of all workers.

18 I call this a claimant neutral
19 treatment of the problem, where you're
20 assigning this worker the full distribution
21 that was generated based on one set of
22 measurements taken on one day. In my opinion,

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1 when you only have one day's worth of
2 measurements, and want to apply it to one
3 particular worker, and you don't know whether
4 this guy is at the high end or the low end of
5 the distribution, I can't see -- I understand
6 why DWE's are done. You want to understand
7 what's going on at the site. But then to just
8 use the DWE number for that one day, and use a
9 geometric mean, so there is a real worker,
10 there's a 50 percent chance you've
11 underestimated his dose because he may not be
12 the worker that's right at the geometric mean.
13 He may be the worker that's at a higher end.

14 And that day, that one day, there
15 was only -- we don't know where that date fits
16 in on the 36 days. So, in my opinion, if I
17 were doing it, I would say, "You know what?
18 I'm going to push it up a little bit. I'm
19 going to use maybe the 84th percentile for
20 this guy." And assume every one of those 36
21 days that he worked there on thorium, rather
22 than use geometric mean, I push it harder as

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1 being a way to give a little bit more of the -
2 - well, maybe the 95th percentile.

3 I don't know whether he got the
4 95th percentile every day, 36 days, that's a
5 little -- that's pushing it. But going with
6 the --

7 MEMBER MUNN: It's not likely.

8 DR. MAURO: Yes, and I agree with
9 that. But at the same time, using the
10 geometric mean, that tells me you got a 50
11 percent chance that this guy has been
12 underestimated.

13 MEMBER MUNN: You've also got a 50
14 percent chance he's been overestimated.

15 DR. MAURO: That's the truth.
16 Now, what I bring to the Work Group is this is
17 -- this is a philosophy. If we're going to be
18 claimant favorable, I consider the approach
19 you used to be claimant neutral. Now, then
20 the Work Group has to be comfortable in that
21 philosophy.

22 I believe, based on precedent, you

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1 have been moving in a direction where you're
2 trying to be more claimant favorable. That's
3 why we see situations where when you're in a
4 situation like this and not quite sure of
5 whether this guy is a high-end guy or low-end
6 guy, what you will do is you'll assign to him
7 something closer to the higher end of the
8 distribution, rather than the median.

9 I think that philosophy has been
10 embraced.

11 CHAIRMAN GRIFFON: Is there a
12 Simonds Saw site --

13 MR. HINNEFELD: There is. There's
14 a Site Profiler. There is not a Site Profile
15 Review. The Site Profile essentially
16 specifies use --

17 DR. MAURO: Right.

18 MR. HINNEFELD: So, that's why, in
19 my view, these finding are essentially against
20 the site.

21 DR. MAURO: Against the site,
22 right. They are.

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1 MR. HINNEFELD: It doesn't give
2 leeway the way John describes.

3 CHAIRMAN GRIFFON: But I'm asking
4 if we have a Work Group set up for that.

5 MR. HINNEFELD: There is not.

6 DR. MAURO: It's very important.
7 We've never reviewed -- the only review
8 Simonds Saw got was the result --

9 CHAIRMAN GRIFFON: Yes, the result
10 --

11 DR. MAURO: Yes, the result of two
12 cases we reviewed. And this issue --

13 CHAIRMAN GRIFFON: I seem to
14 remember it was probably on one of the slides
15 of the ones we haven't done yet.

16 DR. MAURO: We haven't done yet.

17 MR. HINNEFELD: I mean I think
18 arguably, these dose reconstruction reviews
19 are pretty good reviews.

20 DR. MAURO: And we took a real
21 close look at it -- so, I mean of all of the
22 AWE's that we did of review on the Site

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1 Profile, I would say the one that got the most
2 attention was Simonds Saw because we did do
3 two cases, and we did the Bethlehem Steel.

4 CHAIRMAN GRIFFON: I guess what
5 I'm getting at is these are obviously broad
6 issues. Is the coworker model representative
7 for all workers?

8 MR. HINNEFELD: And this is
9 something I think we can make some progress on
10 getting a decent response back. Again,
11 there's just so many conflicting activities.
12 That's the point. That's why it hasn't been
13 done.

14 CHAIRMAN GRIFFON: And maybe --
15 and I will -- I'm keeping a task list now,
16 too. Because for the next meeting, I really
17 would emphasize to NIOSH and SC&A, if it comes
18 up, that we weren't --

19 MR. HINNEFELD: On the same step.

20 CHAIRMAN GRIFFON: Right. We
21 could keep track of these. Okay, so, with
22 that, it goes for 122.3 as well. That remains

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1 an open item for NIOSH, same site. The next
2 one I have is 122.7. Would that be the same?

3 That's the thorium, right?

4 MR. HINNEFELD: That's the
5 thorium, yes.

6 CHAIRMAN GRIFFON: Okay, okay.

7 MR. FARVER: Was that still open?

8 DR. MAURO: Yes, for the same
9 reason. Oh, yes. One of the things that came
10 out of the last meeting was NIOSH was going to
11 provide SC&A with the HASL data, which gave
12 the DWE data, and I have to say we try to
13 track it down. Sometimes it's hard for us.
14 You may have provided it to us, but we
15 couldn't find it.

16 Now, I would also argue that when
17 we do get it, we certainly could look at it,
18 but I don't know if it's going to change
19 anything. It's really a philosophical -- we
20 could take a look at it though.

21 CHAIRMAN GRIFFON: I'll put that
22 on the action to NIOSH to provide.

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1 DR. MAURO: So, we do have the
2 ball --

3 CHAIRMAN GRIFFON: It may be a
4 matter of just giving us the site -- the
5 reference notes. If it's in the site research
6 data already, yes.

7 DR. ULSH: So, that one was --
8 this particular case was finding 122.1, 122.3
9 and 122.7?

10 CHAIRMAN GRIFFON: Correct.

11 MR. HINNEFELD: Yes. There are a
12 couple of them on here that are -- there are a
13 couple of findings that are resuspension
14 findings. There are a couple that are
15 ingestion findings.

16 DR. MAURO: Yes, and those are
17 separate.

18 MR. HINNEFELD: They're generic.
19 That's a generic thing.

20 CHAIRMAN GRIFFON: And then I'm
21 going down a ways here to, what, 125.9?

22 MEMBER MUNN: Looks like it.

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1 MR. FARVER: Let me clarify what's
2 going on here. The employee's file contained
3 incident slips where bioassay was in question,
4 but those dates did not match the bioassays in
5 the bioassay data. It raised the question why
6 don't they match, or close?

7 CHAIRMAN GRIFFON: Any progress on
8 that one?

9 MR. HINNEFELD: I don't think so.
10 Do you know of anything?

11 DR. ULSH: I don't know of
12 anything.

13 MR. SIEBERT: That's correct.
14 There hasn't been anything on our side yet.

15 CHAIRMAN GRIFFON: Do you have any
16 questions today, Scott, or any -- is it clear
17 what the question is from SC&A?

18 MR. SIEBERT: Yes, yes. I think
19 we know. There just hasn't been any motion
20 forward.

21 CHAIRMAN GRIFFON: Okay, that's
22 fine. Just making sure we have laid out the

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1 problem adequately. All right, moving on.
2 I'm editing the matrix, because I know if I
3 don't do it now, it won't get done. 127.8
4 remains a NIOSH action item -- fission product
5 dose from whole body counting data, when data
6 is all or less than MDA. That's what I have.

7 MR. SIEBERT: This is still the
8 usual discussion of OTIB-54 as it can pertain
9 to whole body counts.

10 CHAIRMAN GRIFFON: Is this more of
11 an OTIB-54 generic issue at this point?

12 MR. SIEBERT: I believe so.

13 CHAIRMAN GRIFFON: Yes, okay. I
14 mean does it -- does -- I should ask like we
15 always ask. Would the outcome affect this
16 case? I mean is this -- I think we're talking
17 --

18 DR. MAURO: Oh, you mean the PoC?

19 CHAIRMAN GRIFFON: Yes, as far as
20 contributing to the overall outcome of the
21 case, I think it's probably marginal error. I
22 don't know, I should ask. Does anybody know

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1 that before I close it out completely?

2 MR. HINNEFELD: I don't know.

3 DR. MAURO: Do we know the PoC?
4 Do we have the case? Give us a second. As a
5 rule, we're talking about the change in the
6 mix of radionuclides, you're assuming that
7 representative of the whole body count.

8 MR. HINNEFELD: Yes.

9 MEMBER MUNN: Yes.

10 DR. MAURO: Oh, yes, 46.9 is up
11 there. The internal dose is not a big
12 contributor though. So, in a funny sort of
13 place.

14 MR. HINNEFELD: Yes.

15 DR. MAURO: We have a high PoC,
16 but the internal dose is not the big player.

17 MR. HINNEFELD: What was the
18 cancer? What was the --

19 MR. FARVER: Breast.

20 MR. HINNEFELD: Breast cancer. You
21 won't get much to the breast from internal
22 dose.

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1 CHAIRMAN GRIFFON: Given the
2 evidence that we shipped it to TIB-54 for
3 discussion --

4 DR. MAURO: My intuition -- yes.
5 I don't think this change in mix because of
6 this discussion of OTIB-54 is going to really
7 move the PoC too much because the contribution
8 of internal is so small compared to
9 externally.

10 MEMBER MUNN: Yes.

11 CHAIRMAN GRIFFON: Brant, did you
12 have something?

13 DR. ULSH: Well, are we saying now
14 that we're going to shift that over to the
15 Procedures group?

16 CHAIRMAN GRIFFON: Yes.

17 DR. ULSH: Or close it here?

18 MEMBER MUNN: It's already
19 happened.

20 CHAIRMAN GRIFFON: And the
21 Procedures already have that anyway. So, it's
22 closed on this matrix. Okay, 127.10, this is

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1 the same case, and it's again internal dose --

2 MS. BEHLING: This is Kathy
3 Behling. I'm sorry, I just joined you. I
4 didn't get back on the line in time. And
5 you're on 127.10?

6 MR. KATZ: Yes, Kathy.

7 MS. BEHLING: I'm sorry. I did
8 look at this. In fact, I think this was an
9 SC&A response that was needed. And in this
10 particular case, I went back into the -- the
11 EE's records, and the technical basis
12 document, and NIOSH's calculations and
13 response, and I do believe that they are
14 indicating here that they used ruthenium-106
15 for their calculation, and that founds this
16 particular case.

17 I do agree with them, after going
18 back and really scrutinizing over all of these
19 records again.

20 CHAIRMAN GRIFFON: Okay, I'll
21 close that out then.

22 MR. SIEBERT: So, that was closing

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1 out .10 as well?

2 CHAIRMAN GRIFFON: Yes.

3 MR. SIEBERT: Thank you.

4 CHAIRMAN GRIFFON: And .11, rust
5 sample monitoring.

6 MS. BEHLING: I believe NIOSH was
7 going to follow up on --

8 CHAIRMAN GRIFFON: Yes.

9 MS. BEHLING: -- potential radon
10 exposure -- or radium exposure.

11 CHAIRMAN GRIFFON: Radium.

12 MS. BEHLING: Radium.

13 MR. HINNEFELD: I don't think
14 we've got anything more.

15 CHAIRMAN GRIFFON: I think I
16 recollect this case when we were -- possibly
17 the individual could've been confused. It
18 could've been a spirometry test or something.

19 You know, something else other than a --

20 MR. HINNEFELD: Yes, something
21 breath monitored.

22 CHAIRMAN GRIFFON: Right.

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1 MR. HINNEFELD: A breath monitor
2 for radium exposure is pretty uncommon.

3 CHAIRMAN GRIFFON: Right. I just
4 wanted to verify that this site couldn't have
5 had that kind of exposure, and then we could
6 close it out.

7 MR. HINNEFELD: Right.

8 CHAIRMAN GRIFFON: Yes.

9 MR. SIEBERT: If I recall
10 correctly, this is employment in basically
11 like the `80s and `90s. So, that would be
12 more surprising.

13 CHAIRMAN GRIFFON: Other than the
14 later years too, yes. That would be
15 surprising. What was the site again?

16 MR. SIEBERT: Hanford.

17 CHAIRMAN GRIFFON: Hanford. I
18 mean if you could just pull the thread on that
19 a little bit, there was no radon breath
20 monitoring done at Hanford in those -- that
21 time frame, then I think we can put this
22 aside. Right, Doug?

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1 MR. FARVER: Yes.

2 CHAIRMAN GRIFFON: Okay. So,
3 we'll hold off for now.

4 MEMBER MUNN: It's probably more
5 important with the --

6 MS. BEHLING: I think actually
7 this case goes back to 1955 through '89.
8 Hanford and PNNL.

9 MR. HINNEFELD: '55? That's back
10 in the early --

11 MR. SIEBERT: Yes, you're right.
12 I'm sorry. It goes through later on, but it
13 does start early.

14 CHAIRMAN GRIFFON: Well, I guess
15 the follow up is the same. Is there a source
16 of exposure for this individual?

17 MEMBER MUNN: Well, the key really
18 is how much of it --

19 CHAIRMAN GRIFFON: Well, yes. But
20 if there was none, then that sort of negates
21 any further follow up, right? All right, so
22 it remains a NIOSH action item. I'll move to

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1 129.5.

2 MS. BEHLING: 129.5 is again this
3 again this fission product issue. And what we
4 were questioning is this individual receives a
5 whole body count, and NIOSH uses a
6 radionuclide chooser spreadsheet, and selects
7 the highest radionuclide -- the radionuclide
8 that gives the highest dose, and we were just
9 -- have been questioning for quite some time
10 now if they're going to look into also
11 assessing doses for other fission products
12 that the individual might've been exposed to.

13 CHAIRMAN GRIFFON: Is there -- I
14 think this is again referring back to TIB-54
15 Procedures Subcommittee, and thus the reason
16 to keep it open here. Again, my question of
17 how -- what's the PoC and the other --

18 MS. BEHLING: Okay, but I thought
19 OTIB-54 mainly addresses urinalysis. Am I
20 wrong on that?

21 CHAIRMAN GRIFFON: No, I thought
22 Scott just said --

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1 MR. SIEBERT: Yes. That's the
2 outstanding thing we have discussing is
3 whether it can be applied to whole body
4 counting, and whether it should be.

5 MS. BEHLING: Well, it can be.
6 It's just not written that way. I mean it
7 gives ratios. And so, the ratios stand
8 regardless of whether you're starting with:
9 urinalysis or whole body count. But we just
10 haven't taken the step yet of writing it. The
11 primary concern was cesium-137 would be the
12 nuclide. You'd probably want to key off of
13 but that is often positive because of fallout
14 levels.

15 And so, that would artificially
16 elevate the other nuclides. And so, that's
17 the issue that we need to deal with in
18 applying it to whole body count. Okay, and
19 I'm sorry if you had this discussion before
20 and I didn't hear it.

21 CHAIRMAN GRIFFON: That's all
22 right.

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1 MS. BEHLING: But we didn't on
2 this call.

3 CHAIRMAN GRIFFON: I think as the
4 generic issue, it can be brought up. It can
5 be further discussed in Procedures, I believe.

6 MR. FARVER: Yes, PoC is 37
7 percent.

8 CHAIRMAN GRIFFON: Thirty-seven
9 percent. What kind of a cancer?

10 MR. FARVER: Prostate-pancreatic.

11 CHAIRMAN GRIFFON: Okay. So,
12 we'll defer this one to Wanda.

13 MEMBER MUNN: Now, if we can get
14 TIB-54 closed in Procedures, are you going to
15 pick up on that while you are sitting there
16 Mark?

17 MR. HINNEFELD: I thought we're
18 closing it.

19 CHAIRMAN GRIFFON: Once we defer -
20 -

21 MR. HINNEFELD: Well, the rules
22 for doing this reconstruction are far more

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1 important than any specific individual dose
2 reconstruction, except to the one person.
3 Shift everything over there.

4 DR. MAURO: Well, let me ask you
5 something. Let's say it turns out our review
6 of OTIB-54 reveals some limitations. I'm not
7 saying there are. In fact, if I recall, our
8 review was fairly favorable. We didn't go
9 into this business of the chest count or the
10 urine count.

11 MR. HINNEFELD: Yes.

12 DR. MAURO: Well, let's say --
13 let's say something comes out of that, and
14 everyone agrees, "Yes, we got to fix it."
15 That's going to trigger a review of all these.
16 So, I mean the PER is going to -- so, I mean
17 in a funny sort of way, it could -- I mean if
18 you close it here, it's going to open again
19 when --

20 MR. HINNEFELD: If there's
21 something that comes out of 54 review, then
22 it'll be reopened again.

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1 DR. MAURO: There's another layer
2 of protection.

3 CHAIRMAN GRIFFON: Right, right.
4 All right, 130.6 is the next one I have.

5 MR. FARVER: Brant, this is the
6 file you sent and I tried opening it three or
7 four times, and it kept telling me it's a zip
8 file.

9 MEMBER MUNN: Yes, and I got a lot
10 of ASCII.

11 MR. FARVER: Okay, so it's a zip
12 file for you, too.

13 MEMBER MUNN: Yes.

14 MR. FARVER: Can you tell me
15 what's in it?

16 MR. SIEBERT: I can walk you
17 through this one.

18 MR. FARVER: Scott, I'll tell you
19 my basic concern here is --

20 MR. SIEBERT: Yes, I know.

21 MR. FARVER: Okay.

22 MR. SIEBERT: You're thinking that

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1 originally it was 46 rem, and then when we do
2 all our reworks and responses and discussions,
3 we were around 23 rem after adding the extra 3
4 rem for the fission product.

5 MR. FARVER: Right. I agree with
6 the 3 rem. That's good.

7 MR. SIEBERT: Okay.

8 MR. FARVER: I just don't know how
9 you got from 46 to 23.

10 MR. SIEBERT: Yes. The bottom
11 line is the original assessment you guys were
12 doing findings on was approximately 46 rem.
13 Once we started looking at responses, we had
14 already reworked the case by that point for I
15 believe it was Super S plutonium, if I
16 remember right.

17 But when it was reworked, it was
18 determined that plutonium was not needed to be
19 assessed and assigned in the claim. Now, the
20 original assessment had it assigned, however
21 it was all based on a single termination urine
22 sample, and a single termination chest count.

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1 And in normal processes, if we were doing a
2 better estimate, as opposed to a huge
3 overestimate, we would not be assigning
4 plutonium based solely on a termination
5 sample, especially this individual who worked
6 in the D area and reactors.

7 So, tritium and fission products
8 makes perfectly good sense. Plutonium does
9 not. So, when we rework the claim, we assumed
10 that that was more of a procedural termination
11 sample, rather than exposure potential, which
12 you guys are well aware that is not uncommon
13 for us to deal with that.

14 DR. MAURO: And a negative result?

15 MR. SIEBERT: Correct. And once
16 you pull -- that was about 25 rem of plutonium
17 dose. It was in an original assessment that
18 was not in further assessments because of
19 that. When you throw that out, you're down
20 around the 23 rem. That's where that 23 rem
21 is coming from.

22 I did actually throw that back

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1 into the assessment where we included the
2 additional fission product, and put that
3 additional plutonium in, just to see what our
4 difference in PoC was, and the PoC stayed
5 almost virtually the same. It went to 42.74
6 percent.

7 CHAIRMAN GRIFFON: So, it's still
8 well below, yes.

9 MR. SIEBERT: No change in
10 compensation decision.

11 MR. FARVER: So, you put the 25
12 back in, the plutonium back in?

13 MR. SIEBERT: Right. Just for
14 seeing what the difference is for our
15 purposes.

16 DR. ULSH: Just so we can discuss
17 it.

18 MR. SIEBERT: Right.

19 MR. FARVER: And it didn't change
20 the PoC?

21 DR. ULSH: Well, it didn't change
22 the compensation.

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1 MR. FARVER: Okay, it didn't
2 change the PoC.

3 CHAIRMAN GRIFFON: It's still well
4 below 2. It wasn't like it's 49.

5 MR. HINNEFELD: It was -- the 25
6 was in originally, and we added three
7 additional. Is that right? By having the
8 fission --

9 MR. SIEBERT: Yes. It didn't
10 change the original PoC, which was based on
11 the 46 rem.

12 DR. MAURO: So, even then it
13 didn't change.

14 MR. FARVER: The original 3 rem
15 would not change that, correct?

16 MR. SIEBERT: Correct.

17 MR. FARVER: I agree.

18 CHAIRMAN GRIFFON: As long as
19 you're okay with the additional three, I think
20 we're okay on that. The rationale for not
21 including the plutonium sounds reasonable to
22 me. And you couldn't open the document.

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1 MR. SIEBERT: Are you using
2 anything before Office 2007?

3 CHAIRMAN GRIFFON: Yes, because I
4 could open it. So, it wasn't a problem on my
5 end.

6 MR. SIEBERT: Yes, it's a .docx
7 file. So, I may have to save those things in
8 Office 97 through 2003 so everyone can use it.
9 That's my fault.

10 MR. FARVER: I don't know. I went
11 into my CVC account and tried to open it from
12 there, and it just won't let me do it. It
13 just told me it was a zip file.

14 MEMBER MUNN: Yes, and .docx
15 sometimes works and sometimes doesn't on my
16 system. I don't know why.

17 MR. SIEBERT: Call Bill Gates.

18 MR. FARVER: Sending him an email
19 now.

20 CHAIRMAN GRIFFON: So, this one is
21 completely closed. No referring to Wanda's
22 group or anything?

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1 MR. FARVER: No.

2 MR. KATZ: Sometimes with these
3 kind of files, you have to save them first,
4 and then open them.

5 MR. FARVER: I couldn't even save
6 it.

7 MEMBER MUNN: I could save it, but
8 I came up all ASCII.

9 CHAIRMAN GRIFFON: Okay, 131.4.
10 Is this the one you have a response for, or
11 no? No, that's 136. So, 131.4 remains a
12 NIOSH action item: electron dose calculation.

13 MS. BEHLING: I believe in this
14 case, we just didn't -- we couldn't reproduce
15 their number, and we just -- we weren't sure.
16 I think this is prior to OTIB-17, and we
17 really weren't sure how they went about
18 calculating the electron dose.

19 MR. HINNEFELD: We'll have to
20 provide it then.

21 MEMBER MUNN: That's why it's
22 still open.

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1 CHAIRMAN GRIFFON: Okay, 131.6.

2 MS. BEHLING: This is again the
3 same fission product question.

4 CHAIRMAN GRIFFON: Yes. Is there
5 any difference on this one, Kathy? Or, is it
6 the exact same kind of thing?

7 MS. BEHLING: Exact same thing.

8 CHAIRMAN GRIFFON: Okay, so we
9 should defer again, I believe.

10 MS. BEHLING: Yes, right, the
11 OTIB-54.

12 CHAIRMAN GRIFFON: Okay. This is
13 not a borderline PoC or anything like that?

14 MS. BEHLING: Let me look. This
15 is Savannah River, 46.4.

16 CHAIRMAN GRIFFON: What kind of
17 cancer?

18 MS. BEHLING: Breast and kidney.

19 MR. HINNEFELD: Kidney could
20 probably. Thorium, well, I won't swear there
21 are any fission products --

22 CHAIRMAN GRIFFON: Do we have any

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1 others? I'm just finding those right now.

2 Well, I mean we have our --

3 MR. SIEBERT: Yes. Once again
4 regardless sum up in a PER.

5 CHAIRMAN GRIFFON: Right. That's
6 what I was just saying. We have our backdrop,
7 which is the PER. I think we can still close
8 it and refer to Procedures. I might put a
9 note that -- well, I don't know if I want to
10 put that note. Well, if it's modified -- yes,
11 if anything comes of the review on procedures,
12 then it's an action for the PER, right?

13 MEMBER MUNN: Should be.

14 CHAIRMAN GRIFFON: So, this won't
15 be missed.

16 MEMBER MUNN: Can't see how.

17 CHAIRMAN GRIFFON: I don't see a
18 problem with closing it. Does anyone else?
19 Okay, then, it's closed. All right, 135.1.

20 MR. SIEBERT: I believe both 135.1
21 and .4 are in our house, and no action has
22 been taken on them so far.

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1 CHAIRMAN GRIFFON: All right. And
2 136.3, I think you sent something for that,
3 right, Scott?

4 MR. SIEBERT: That's correct.

5 CHAIRMAN GRIFFON: Are you able to
6 open that?

7 MR. FARVER: Yes.

8 MR. SIEBERT: Yes, that one I
9 saved as a `97-2003 file.

10 MEMBER MUNN: Thank you very much.

11 MR. FARVER: The question I had
12 was we had already determined that the bills
13 matched the paper. That was down in the 41609
14 response, I believe.

15 MR. SIEBERT: Yes. After looking
16 at the responses, I thought we had actually
17 closed this out. But I redid the analysis to
18 be sure.

19 CHAIRMAN GRIFFON: Okay.

20 MS. BEHLING: Is this a situation
21 where you received more films or X-rays from
22 the site?

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1 MR. FARVER: That's what it looks
2 like, according to the September response.

3 MR. SIEBERT: Yes, this is the
4 issue that Rocky Flats -- we found that in the
5 film folders, there were actually more X-rays
6 for some claims than the paper record that
7 they had sent us. And now, they are giving us
8 all film -- they're going through all the film
9 records instead of just the paper records.

10 In this specific case, the film
11 records that they sent us was identical to the
12 paper records that it was originally assessed
13 against.

14 MR. FARVER: Okay.

15 MR. SIEBERT: So, this one was
16 pretty much -- well, it should be closed out.

17 MR. FARVER: Should be closed.

18 CHAIRMAN GRIFFON: And you're in
19 agreement with that, right?

20 MR. FARVER: Yes.

21 CHAIRMAN GRIFFON: Okay. All
22 right, give me a second. 136.4?

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1 MS. BEHLING: 136.4, this is one
2 where we initially felt that NIOSH should've
3 used a Type S absorption for their calculation
4 for uranium. However, I did go back through
5 all of Scott's files, and when you -- when you
6 look at Type S versus Type M, and you plot it,
7 and then compare it also to the lung count
8 data, I do understand why the Type M was used,
9 and that's more reasonable. So, I agree with
10 their assessments.

11 CHAIRMAN GRIFFON: Okay. And .05.

12 MR. KATZ: Is four closed?

13 CHAIRMAN GRIFFON: Yes, four is
14 closed. I'm sorry.

15 MS. BEHLING: Again, 136.5 is sort
16 of a follow up on this Type S. But after
17 reviewing things again, as I said, we do agree
18 with NIOSH on this.

19 CHAIRMAN GRIFFON: Okay. What was
20 the difference with the CATI? This talks
21 about follow up on the CATI. Was there
22 something specifically noted in the CATI that

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1 --

2 MS. BEHLING: The individual in
3 the CATI indicated that he was in a building
4 that caught fire, and --

5 MR. FARVER: Between that and the
6 TBD list, that same building has had depleted
7 uranium and beryllium. You would suspect that
8 the uranium would be Type S from the fire, but
9 not a Type M.

10 MS. BEHLING: But as we said when
11 we went back and looked at the bioassay data,
12 and looked at the plots in the set, I do agree
13 that the M is more appropriate.

14 CHAIRMAN GRIFFON: Okay, 137.6

15 MS. BEHLING: Okay, 137.6.

16 MR. SIEBERT: I believe all the
17 137's still stay in our house, and we just
18 have not given responses on them yet. I
19 believe that's correct. Stu?

20 MR. HINNEFELD: I don't recall. I
21 don't know what the latest -- I'm not sure I'm
22 looking at the latest matrix. Is SC&A on our

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1 April 15th, 2009 response?

2 MEMBER MUNN: Well, they said in
3 November they agreed with your determination
4 on probability -- you were going to add the
5 MDA. I was going to ask for the case file.
6 It probably should've been included.

7 MR. SIEBERT: Yes, the first one
8 is that we didn't -- I believe we didn't
9 include the other IMBA runs to demonstrate
10 that we ran everything.

11 MR. HINNEFELD: Yes.

12 MR. SIEBERT: And selected the one
13 that was claimant favorable.

14 CHAIRMAN GRIFFON: Yes, I don't
15 know that there's necessarily follow up on
16 that, is there? It's just to show the worker
17 -- or save all the runs or whatever.

18 DR. MAURO: This is the one that
19 Kathy ran on her own --

20 MS. BEHLING: No.

21 DR. MAURO: I misunderstood then,
22 Kathy.

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1 MS. BEHLING: Yes, this is the
2 Paducah case. This is different. Again, this
3 is what Mark was saying. It's a show your
4 work type of thing.

5 CHAIRMAN GRIFFON: For the first
6 one, for 137.6. The other ones might be
7 different.

8 DR. MAURO: Correct.

9 MS. BEHLING: The other one is
10 different.

11 CHAIRMAN GRIFFON: Yes. So, let's
12 -- for that one, I think we can close .6 out,
13 right? If NIOSH is in agreement with that.

14 MR. SIEBERT: That's .4?

15 MEMBER MUNN: No, .6.

16 MR. SIEBERT: Oh, .6.

17 CHAIRMAN GRIFFON: I mean it
18 sounds to me like NIOSH can see that, yes, we
19 should've showed a different run from --

20 MR. SIEBERT: Correct.

21 MR. FARVER: And then they talk
22 about --

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1 CHAIRMAN GRIFFON: Yes.

2 MR. FARVER: -- procedure and
3 things of that nature.

4 CHAIRMAN GRIFFON: I mean I'll
5 just leave it there for now because the whole
6 case is still open. But when we come back to
7 it, I think the idea was that you're going to
8 add these other draft runs into the case file.
9 Right?

10 MR. HINNEFELD: Yes.

11 DR. ULSH: So, it means an action
12 item for --

13 MR. HINNEFELD: Yes.

14 CHAIRMAN GRIFFON: And then like
15 Scott said, the whole case 137 is still an
16 open NIOSH action.

17 MS. BEHLING: I think 137.8, and I
18 realize NIOSH -- it sounds like is not in a
19 position maybe to address this today, but
20 again, this might become one of those
21 overarching issues with the skin
22 contamination, and how to deal with potential

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1 skin contamination, even though there weren't
2 any records that indicated that this
3 individual has skin contamination -- skin
4 contamination.

5 There was a lot of other evidence
6 that would suggest that, and again for
7 consistency, we did have a case in the 8th set
8 where just based on information that was
9 provided in the CATI report, NIOSH did
10 calculate a skin dose, assuming skin
11 contamination. And in this particular case,
12 they didn't.

13 The other thing I noticed about
14 this was as I went back and looked at these
15 records very closely, as there were a lot of
16 bioassays that were marked as special. So,
17 they indicate that there was some concern
18 there, some problems that he had a lot of
19 special -- just something to consider when we
20 look at this case.

21 CHAIRMAN GRIFFON: Okay.

22 MR. SIEBERT: Yes, it does refer

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1 back to .4, but .4 itself is closed, saying
2 it's an overarching issue. So, I'm not sure
3 what you want to do with it.

4 CHAIRMAN GRIFFON: Yes, I think
5 we'll just see what you come back with with
6 the overall case next time, and if we can
7 close parts of it out, we'll do that. Does
8 that make sense, Scott?

9 MR. SIEBERT: Yes, that's fine
10 with me.

11 CHAIRMAN GRIFFON: All right. I
12 think that brings us through the end of this
13 matrix, actually. Even though we didn't -- we
14 made some headway.

15 DR. MAURO: Six is off the table
16 now, right? Sixth set is done?

17 CHAIRMAN GRIFFON: Yes.

18 DR. MAURO: So, that's a
19 milestone. We have some residue on 7, but --

20 CHAIRMAN GRIFFON: Right.

21 MEMBER MUNN: And so, even though
22 you still have 137.8 highlighted, you consider

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1 that closed because it's an overarching issue,
2 right?

3 CHAIRMAN GRIFFON: Well, I think I
4 indicated that at least part of it is an
5 overarching issue, but I wanted to see their
6 runs first before we decided whether it was
7 solely an overarching issue.

8 MR. HINNEFELD: I think we came in
9 thinking we owed something.

10 CHAIRMAN GRIFFON: Yes, yes. I
11 think we wanted to see the data first on the
12 case, and then decide whether it was just an
13 overarching issue, or if we need the results
14 from this case, too. That's why I wrote it
15 that way. All right.

16 DR. ULSH: So, we've reached the
17 end of the seventh set. I mean there's a
18 number of different criteria you could use to
19 prioritize these things, but it sounds to me
20 like the remaining open items from the seventh
21 set are the highest priority.

22 CHAIRMAN GRIFFON: I would think

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1 so because we've been on the seventh set for a
2 while. Yes, yes.

3 DR. ULSH: Okay, we'll work
4 towards that.

5 CHAIRMAN GRIFFON: Yes. If we
6 want to take a minute just to get our bearings
7 for the eighth set, if you wouldn't mind going
8 to the eight set, let's open it up and see
9 where we're at. Also, maybe we can lay out
10 how we want to approach it because like for
11 instance, I think Hans is on the line mainly
12 for those three.

13 DR. MAURO: So, let's move those
14 out.

15 CHAIRMAN GRIFFON: Let's figure
16 out where we want to schedule those. So, the
17 most recent matrix first.

18 DR. MAURO: Mark, I got a
19 question. I know there are three of them.
20 There's Bridgeport Brass, Harshaw --

21 MS. BEHLING: Huntington.

22 DR. MAURO: -- and Huntington.

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1 Now, I know we went pretty far down the road
2 on Harshaw because we provided an estimate to
3 the responses, and then we, Hans, provided a
4 response to those responses. So, I know
5 Harshaw special Site Profile is very mature.
6 I'm not quite sure where we are with regard to
7 Bridgeport Brass or Huntington, whether or not
8 there's been a response for those or not. I
9 have to say I don't recall whether you've
10 written a response to those the way you did
11 for Harshaw.

12 CHAIRMAN GRIFFON: Well, let me
13 ask this. For Harshaw, you said you provided
14 a response to NIOSH's response.

15 DR. MAURO: Yes.

16 CHAIRMAN GRIFFON: Is NIOSH in a
17 position to discuss that today, or --

18 DR. MAURO: Have you seen it?

19 CHAIRMAN GRIFFON: -- did you
20 recently get it?

21 DR. MAURO: This goes back a ways.
22 April. Well, I got it here. Hold on. Let

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1 me see.

2 DR. ULSH: Scott, does this ring
3 any bells while John is looking?

4 MR. SIEBERT: Harshaw stuff?
5 Honestly, I don't know if that's in your guy's
6 -- not off the top of my head. Sorry.

7 CHAIRMAN GRIFFON: John, I have a
8 direct response to SC&A comments. That's the
9 NIOSH --

10 MR. SIEBERT: Yes, and we
11 responded to that.

12 CHAIRMAN GRIFFON: It's dated
13 11/5/09. Or no, maybe that's when I saved it.
14 I shouldn't say that. When did you send it
15 because I'm not sure I have that.

16 DR. MAURO: Let's see.

17 MEMBER MUNN: We got Harshaw.

18 DR. MAURO: Okay, April 2009. I
19 have a report here called, "SC&A follow up,
20 NIOSH's responses to Harshaw Site Profile
21 review findings." That is my understanding of
22 the last place we left it, where we -- you

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1 folks provided us with formal responses to all
2 of the issues we raised on our Harshaw mini
3 Site Profile review, and then we reviewed
4 that, and submitted a White Paper dated April
5 2009.

6 And Hans, I believe wrote that. I
7 reviewed it again. Several issues have been
8 resolved, as far as our report goes, but there
9 are several still on the table. That might be
10 a good place to start. If you folks don't
11 have it -- Kathy, do you have the --

12 CHAIRMAN GRIFFON: It may not be
13 worth starting if nobody has looked at it.

14 DR. MAURO: Yes, yes. But this
15 isn't one we put to bed because there's some
16 that have been resolved.

17 CHAIRMAN GRIFFON: Well, we may
18 want to all look at it, though.

19 DR. MAURO: Okay.

20 CHAIRMAN GRIFFON: Maybe I can ask
21 for one set. Can you bring it around again
22 because I can't seem to find it.

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1 MEMBER MUNN: I've got it.

2 DR. MAURO: You've got it? Great.

3 MEMBER MUNN: Yes, I've got it.

4 And if I've got it, I know everybody else has
5 it.

6 CHAIRMAN GRIFFON: Somewhere.

7 MEMBER MUNN: Let me show you
8 where I got it from. It was sent on the date
9 of 11/5.

10 CHAIRMAN GRIFFON: It is a Word or

11 --

12 MEMBER MUNN: It is a zip file.
13 It has three files in it. The first 100
14 cases, Bridgeport review follow up, and a
15 while paper.

16 CHAIRMAN GRIFFON: White Paper
17 Harshaw?

18 MEMBER MUNN: Harshaw TBD review.

19 CHAIRMAN GRIFFON: Okay, I do have
20 that one.

21 DR. ULSH: Did you say 11/5?

22 MEMBER MUNN: 11/5/2009.

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1 CHAIRMAN GRIFFON: April 2009 is
2 dated on the paper.

3 MEMBER MUNN: The paper is dated
4 April. It was sent to us in November.

5 MR. HINNEFELD: It may have been
6 sent earlier too.

7 MEMBER MUNN: It probably was.

8 DR. ULSH: We might've gone
9 through this exercise before.

10 CHAIRMAN GRIFFON: Okay, I do have
11 it. It is a PDF document.

12 MEMBER MUNN: Right.

13 CHAIRMAN GRIFFON: I have it, but
14 it's -- maybe we can start this.

15 DR. MAURO: We could tell our
16 story.

17 MEMBER MUNN: It's only 28 pages
18 long.

19 CHAIRMAN GRIFFON: Let's do that
20 briefly, and then we'll break for lunch.
21 Let's do that.

22 DR. MAURO: Understand the issues

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1 where we are.

2 CHAIRMAN GRIFFON: All right.

3 DR. MAURO: In fact, if Hans is on
4 the phone, I mean he's -- don't want to take
5 it from Hans. He did all the hard work. Is
6 Hans there?

7 DR. BEHLING: Yes, I'm here.

8 DR. MAURO: You want to tell your
9 story? Or, do you want me to do it?

10 DR. BEHLING: Can you tell me
11 exactly? I just picked up where we are here.

12 DR. MAURO: Okay, yes. Hans, I
13 have in front of me a report that you drafted.

14 I seem to recall you drafted. It's dated
15 April 2009, where there -- there were a number
16 -- it turns out that -- we had originally,
17 when we reviewed the mini review of the
18 Harshaw Site Profile, which was attached to
19 Appendix 2 to the 8th set, we had a total of
20 six findings in that original review.

21 Then -- and NIOSH then submitted -
22 - on January 22nd, 2009, NIOSH submitted a

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1 White Paper responding to our six comments,
2 okay? And the bottom line is when they came
3 back to us, we review that, and then we
4 submitted this report dated April 9, 2009. In
5 the 30-second sound bite, where we are is we
6 consider findings 2 and 3 out of the 6
7 conditionally resolved. In other words, we
8 feel the response is satisfactory.

9 DR. BEHLING: Yes.

10 DR. MAURO: Finding 6, we found a
11 five-fold mathematical error. NIOSH looked at
12 it and agrees, and they have to fix that.
13 However, the issues that still remain where I
14 guess we agree to disagree is findings numbers
15 1, 4 and 5.

16 DR. BEHLING: That's what I have
17 too, John.

18 DR. MAURO: Yes. So, that's where
19 I -- that's where I am right now. Do you want
20 to talk about 1, 4, 5?

21 CHAIRMAN GRIFFON: That's a good
22 summary, I think, at this point. Because

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1 Brant, you guys aren't ready to discuss the
2 response to the response. So, let's just take
3 good notes on this on what we have to -- the
4 main things I think you should focus on is
5 where there's disagreement obviously. DR.

6 MAURO: And that's 1, 4 and 5.

7 CHAIRMAN GRIFFON: I mean work
8 group members may also look at those and think
9 you closed, and not agree. But for now, we'll
10 focus on this disagreement. So, 1, 4, and 5.

11 MEMBER MUNN: It really starts at
12 section 3.

13 CHAIRMAN GRIFFON: Yes.

14 MEMBER MUNN: Page 3.

15 CHAIRMAN GRIFFON: Yes, and I see
16 Brant making notes. So, for Harshaw, focus on
17 1, 4 and 5 for the next meeting. I'm not sure
18 there's much reason to go into it, because
19 we'll do the same thing next meeting, right?

20 DR. MAURO: Yes, we'll regroup
21 again.

22 CHAIRMAN GRIFFON: Do you want to

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1 start either the Bridgeport Brass or the
2 Huntington?

3 DR. ULSH: Mark, before we do
4 that, if I could just ask a quick question?

5 CHAIRMAN GRIFFON: Yes.

6 DR. ULSH: It sounds from John's
7 summary like there's at least agreement
8 between NIOSH and SC&A on 2, 3 and 6.

9 DR. MAURO: Right.

10 DR. ULSH: But is there agreement
11 from the subcommittee on 2, 3 and 6?

12 CHAIRMAN GRIFFON: Well, that's
13 what I'm saying. I don't think we've had a
14 chance to do all of that. But I said at least
15 for now, focus on where there's disagreement
16 between SC&A and NIOSH.

17 DR. ULSH: Now I'm with you.

18 DR. MAURO: That doesn't mean --

19 CHAIRMAN GRIFFON: That doesn't
20 mean that -- yes, you'll necessarily agree.

21 DR. ULSH: I understand.

22 CHAIRMAN GRIFFON: I'm not going

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1 to try to sit here and read now. I think it's
2 fair to say we -- let's just hold on for now
3 because it's likely they'll be closed.

4 DR. ULSH: Okay, thanks.

5 CHAIRMAN GRIFFON: All right. Do
6 you want to go to Bridgeport or Huntington?

7 DR. MAURO: I'm ready.

8 CHAIRMAN GRIFFON: Or, do you want
9 to --

10 DR. MAURO: I understand is we
11 have never engaged those.

12 CHAIRMAN GRIFFON: I don't think
13 so.

14 DR. MAURO: I'm not sure. And it
15 turns out there are a number of findings, and
16 I could -- we can buzz through them. There
17 are only five on Bridgeport Brass, and I can
18 give you the essence of each of them, if that
19 helps.

20 CHAIRMAN GRIFFON: That would be
21 great.

22 DR. MAURO: All right, finding 1.

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1 Okay --

2 CHAIRMAN GRIFFON: Hold on. Let's
3 just get that.

4 DR. MAURO: Okay, you want to find
5 it?

6 CHAIRMAN GRIFFON: Let me find the
7 document that you're talking about. Is this
8 Bridgeport review follow up doc?

9 MEMBER MUNN: Right.

10 DR. MAURO: Yes.

11 MEMBER MUNN: Correct.

12 DR. MAURO: It should be
13 attachment 1 to the 8th set.

14 CHAIRMAN GRIFFON: It's the White
15 Paper, but it's not in a PDF form. Okay.
16 Right, okay. Go ahead, John.

17 DR. MAURO: Okay, if you recall,
18 the Bridgeport Brass is really two.

19 CHAIRMAN GRIFFON: One second.
20 I'm sorry. Brant, do you guys have this
21 document?

22 DR. ULSH: No, I'm sorry.

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1 CHAIRMAN GRIFFON: I want to make
2 sure NIOSH has these pieces before we --

3 DR. ULSH: This is SC&A's report
4 on Bridgeport Brass dated April 2009?

5 CHAIRMAN GRIFFON: Yes.

6 DR. MAURO: Well, our Bridgeport
7 Brass is in our -- delivered to the Board has
8 a date of May 2008.

9 CHAIRMAN GRIFFON: No, I see a
10 document prepared by SC&A, April 2009.

11 DR. BEHLING: John, the White
12 Paper was April 2009.

13 CHAIRMAN GRIFFON: Yes.

14 DR. BEHLING: We're talking
15 Bridgeport Brass now.

16 MEMBER MUNN: Yes, we are.

17 CHAIRMAN GRIFFON: Yes.

18 DR. MAURO: Okay. Now, looking at
19 -- I'm looking at the attachment. I actually
20 have the hard copy in front of me that I took
21 out of my three-ring binder. And the front
22 page, on the bottom of the front page, the

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1 cover page, says, "May 2008." Let's see if
2 the footnote says something different. No. I
3 mean --

4 DR. BEHLING: John, I think we're
5 really talking about the White Paper that I
6 prepared that supplements the 2008 --

7 DR. MAURO: Oh, well, then you're
8 ahead of me. I'm off base then, because I was
9 working from the actual original mini Site
10 Profile review that was attachment --

11 CHAIRMAN GRIFFON: Let me just get
12 our bearings here. In the White Paper that
13 Hans was talking about, on page 2, right
14 before finding number 1, it says, "Under task
15 4, the Board directed SC&A to conduct a more
16 comprehensive review of ORAUT-TKBS-30, SC&A
17 issued its report entitled, 'Review of
18 Bridgeport Brass Technical Basis Document,
19 Havens Lab and Adrian Plant,' to the Board's
20 Subcommittee on Dose Reconstruction and NIOSH
21 in May of 2008, as attachment 1 to the eighth
22 set of the dose reconstruction audit reports."

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1 "In our review, SC&A identified
2 five findings, which are briefly summarized
3 below." So, I think you went further into
4 this.

5 DR. MAURO: I'm dated then. Hans,
6 you got it. I'm -- I'm behind the time on
7 this one. So, thanks for correcting that.

8 CHAIRMAN GRIFFON: Okay, so, Hans,
9 if you could, give us an overview, maybe at
10 least five findings.

11 DR. BEHLING: Yes. Contrary to
12 what was stated earlier, we did review those.
13 And I think we resolved a good number of the
14 five. I think it's really finding number 2
15 that remains unresolved. And I think a couple
16 of those were really Harry Chmelynski's
17 issues.

18 DR. MAURO: Oh, the correlation
19 issue?

20 DR. BEHLING: Yes.

21 DR. MAURO: Yes. I know it well.
22 We could use Harry on the line to help.

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1 CHAIRMAN GRIFFON: Maybe we could
2 get him for after lunch.

3 MR. KATZ: He's here. He's here.

4 DR. ULSH: Okay, hold on.
5 Findings 1 through 5, all of them except
6 number 2 are resolved. Is that what you said?

7 MEMBER MUNN: Well, you can see
8 that under paragraph 2.1. Finding 1, NIOSH
9 agrees with the finding and will conduct --

10 DR. ULSH: Okay.

11 DR. BEHLING: I have -- just in my
12 notes, I think we have conditionally resolved
13 findings 1, 4 and 5. And I guess number 2 is
14 the one that's an issue that Harry needs to
15 discuss.

16 MEMBER MUNN: That was the only
17 one that NIOSH rejected and --

18 CHAIRMAN GRIFFON: Yes, the only
19 problem is that when you say -- I mean we
20 have -- we have agreement. Here's the problem
21 when you're -- this is kind of a mini-Site
22 Profile question, but I'm looking at the

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1 bottom of the matrix, and actually we did it.

2 Hans is right. We did discuss this at one
3 point, actually on 11/5/09. There's some
4 highlighted things in the matrix.

5 And on finding 5, just for
6 example, it says, "NIOSH agrees, and will
7 modify the site matrix table 5.1." But we
8 haven't heard how -- I'm not sure we've heard
9 how NIOSH will modify the table.

10 MR. HINNEFELD: Yes, I don't
11 believe we have.

12 CHAIRMAN GRIFFON: So, if this is
13 like a mini site, I think we have to see that
14 through, and understand what -- what are you
15 going to do to it. So, there's several items
16 down there. Maybe that's the place we start
17 when we -- I think we might want to break for
18 lunch, and come back and start at the bottom
19 of the matrix, finding numbers 1, 2, 3, 4, 5
20 for Bridgeport Brass, supplement it with the
21 White Paper that Hans is talking from, and
22 discuss this a little further. Is that okay,

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1 Hans?

2 DR. BEHLING: Yes.

3 CHAIRMAN GRIFFON: Can you join us
4 at 1:00?

5 DR. BEHLING: Okay.

6 CHAIRMAN GRIFFON: All right,
7 let's -- if it's okay with everyone, let's
8 take our recess now, and reconvene at 1:00.
9 We'll start with Bridgeport Brass, and then
10 we'll do Huntington, and then we'll go back
11 into the regular findings.

12 (Whereupon, the above-entitled
13 matter went off the record at 11:52 a.m., and
14 resumed at 1:13 p.m.)

15 MR. KATZ: Okay, so Dose
16 Reconstruction Subcommittee, and we're
17 reconvening after lunch. We're on the eighth
18 set. Sorry for being a few minute late coming
19 back. I think we'd like to pick up on the --
20 at the bottom of the matrix, or the end of the
21 matrix, there's Bridgeport Brass findings, 1
22 through 5.

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1 Maybe we can take our discussion
2 from there, and as the White Paper pertains to
3 that, I think we can discuss that. John?

4 DR. MAURO: Yes. So, you want to
5 go through the Bridgeport Brass White Paper,
6 and close out those five -- where we are?
7 Then we can go through the cases. Or, do you
8 want to go through the cases first? I
9 misunderstood.

10 CHAIRMAN GRIFFON: Bridgeport
11 Brass first.

12 DR. MAURO: Right. The attachment
13 as opposed to any cases that are -- I don't
14 know, there may be some Bridgeport Brass
15 cases. Yes, in fact the first one is -- the
16 first case in the 8th set is a Bridgeport
17 Brass.

18 CHAIRMAN GRIFFON: Okay. I was
19 looking at the attachments. So, let's start
20 with that.

21 DR. MAURO: Yes.

22 CHAIRMAN GRIFFON: So, either you

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1 or Hans.

2 DR. MAURO: Hans sounds like he's
3 out in front of me on this because he has that
4 update. Hans, are you there?

5 DR. BEHLING: I think for those
6 who have either the White Paper on their
7 computer, or in hard copy, I think we can just
8 look at page 3. I think Mark had referenced
9 before we had -- we broke for lunch.

10 I think on page 3, or section 2,
11 that is entitled, "Draft Responses," I think
12 we've come to closure on a number of these,
13 and I think the first one that I believe still
14 remain an open issue is the response to
15 finding 2, that NIOSH has rejected. I think
16 that really belongs to Harry Chmelynski. If
17 he is on the line, I think Harry should
18 comment on that.

19 CHAIRMAN GRIFFON: Hans, if you
20 wouldn't mind, could you just start from
21 number 1? Because I don't have any resolution
22 in the matrix at this point for number 1.

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1 DR. BEHLING: Okay.

2 CHAIRMAN GRIFFON: So, maybe we
3 discussed it, but I didn't have it down.

4 DR. BEHLING: For number 1, the
5 summary finding was that the Site Profile
6 would benefit from additional analysis that
7 demonstrate that the fault intake rates
8 adopted in the exposure matrix are claim
9 favorable for early operational time period in
10 different job categories, and the NIOSH
11 response to that was additional analysis of
12 this finding is necessary, and will be
13 provided upon completion.

14 So, I take that NIOSH is going to
15 obviously provide some additional data for
16 that.

17 CHAIRMAN GRIFFON: Okay, so it's
18 not really closed. And you say down further
19 on page 4, "Findings 1, 4 and 5 are
20 conditionally resolved, pending data analysis
21 by NIOSH that address those findings and meet
22 the approval of the DR Subcommittee." So, I

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1 think that -- from that standpoint, we need to
2 see that analysis.

3 DR. MAURO: The key was the data
4 seemed to be pretty rich internal, post-1960.

5 Pre-1960, it's a lot more limited. And the
6 question becomes can you use the richer data
7 set for internal post-1960 for both Havens and
8 Adrian, to reconstruct the earlier dates.

9 MR. HINNEFELD: Right.

10 DR. MAURO: I think that's where
11 we go with that.

12 CHAIRMAN GRIFFON: And I'm
13 assuming that NIOSH is just looking at -- I
14 mean you don't have necessarily a response.

15 Okay. So, I'm just -- Hans, I'm
16 not in disagreement with you. I'm just
17 putting it --

18 DR. BEHLING: No, I'm sorry when I
19 spoke to the effect that it might already be
20 closed. I wasn't really aware if NIOSH had
21 actually provided with the additional data
22 that they had promised, and also the closure.

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1 But as you just mentioned that's not the
2 case.

3 CHAIRMAN GRIFFON: Yes, that's
4 fine. Okay, so we can move onto finding
5 number 2 if you want now.

6 DR. BEHLING: Is Harry on the
7 line?

8 MR. CHMELYNSKI: Yes, I'm here,
9 Hans.

10 DR. BEHLING: Okay, I guess this
11 is yours, Harry.

12 MR. CHMELYNSKI: Okay, this
13 started many years ago. I don't remember.
14 But I was reading the technical basis document
15 on page 48, for Bridgeport Brass. And it has
16 two sentences, one referring to Adrian, and
17 one referring to Havens.

18 And these sentences say that when
19 the dose was simulated for the workers that
20 the 26 two-week period doses were simulated
21 using crystal ball and assuming correlation.
22 And the same sentence is repeated again for

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1 Havens on page 48.

2 And I was interested in that
3 because when you do a crystal ball simulation,
4 first you want -- you can specify the
5 correlation, but right here it never tells you
6 what the correlation is that they used. So,
7 that raised my curiosity. And what I did was
8 I reconstructed the simulation, and what I
9 found was they didn't use any correlation.

10 What they did was they took 26
11 measurements, and they summed them up using
12 the assumption that they were all independent.

13 And that's -- and I could reproduce the
14 numbers in the table, and the technical basis
15 document using that assumption, that assuming
16 correlation.

17 So, that's where this all started.

18 The -- the answers differ by a factor of 2
19 when you do the simulations. The factor of 2
20 assuming 100 percent correlation, which I know
21 is unreasonable, but it's the highest you can
22 get, so it's an upper bound, and the answer

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1 that was presented in the technical basis
2 document was half of that. It's the one you
3 get with you have no correlation.

4 And the response that NIOSH gave
5 was essentially to repeat what I just said,
6 although they never mentioned the word
7 correlation. They said that we used 26 two-
8 week measurements, and we added them up in the
9 simulation, and this is the answer you get.
10 And that's where, as far as I remember, it was
11 left. I don't know if anyone has any more
12 that has been said since then, but I'm not
13 aware of it.

14 MR. HINNEFELD: No, I think we
15 were next in line to owe something on this. I
16 don't believe we added anything since we had
17 it, since we got this -- this review. So, I
18 don't know if anything additional was
19 prepared. But think about this just a minute.

20 Remind me here again on the
21 correlation, the correlation being that a
22 particular individual is likely to be higher

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1 in the population in general, as opposed to
2 randomly distributed in the population of
3 doses for a given read out period. Is that
4 the correlation?

5 MR. CHMELYNSKI: Yes, from one
6 read out period to another, if that worker is
7 remaining in the same job, it's likely that he
8 will remain relatively high or relatively low
9 during the next reading period also.

10 MR. HINNEFELD: Okay, and the
11 treatment of the data influences the
12 distribution of the -- or the total
13 distribution is later on then.

14 MR. CHMELYNSKI: Right.

15 MR. HINNEFELD: Okay, all right.
16 I am a babe in the woods in statistics. I'm
17 just trying to make sure I got an idea of the
18 issue.

19 MR. CHMELYNSKI: And all
20 I'm pointing out here is it was stated that
21 the correlation was used, but we couldn't
22 verify that it was. And indeed, it looks like
none was used.

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1 MR. HINNEFELD: Yes.

2 MR. CHMELYNSKI: So, that's where
3 it's been since then, I think.

4 MR. HINNEFELD: Okay.

5 DR. ULSH: Is that pretty much the
6 basis of the finding is the treatment of
7 correlation? Is that the issue?

8 CHAIRMAN GRIFFON: Yes.
9 Reluctantly, I'm pursuing this question, but
10 do you have an opinion on whether a
11 correlation should've been applied, or not?

12 MR. CHMELYNSKI: Yes. Personally,
13 I believe that -- I have had some years
14 working in a factory back when I was a young
15 man, and generally, you worked at the same
16 place day after day, week after week, maybe
17 year after year.

18 CHAIRMAN GRIFFON: Yes.

19 MR. CHMELYNSKI: Luckily, I didn't
20 have to stay there very long, but that's been
21 my experience.

22 CHAIRMAN GRIFFON: Okay, so for

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1 the data set too, you believe that it probably
2 should have.

3 MR. HINNEFELD: I'd say that's
4 probably not an unreasonable position, yes.

5 CHAIRMAN GRIFFON: Okay. All
6 right, I think we have enough for now. NIOSH
7 has to look at that, and give us further
8 assessment on that. Go ahead onto finding 3,
9 Hans.

10 DR. BEHLING: Yes. Finding 3,
11 just for those who may not have the document
12 in hand. Finding 3 dealt with exposures to
13 localized parts of the body, such as the hands
14 and forearm from non-penetrating radiation for
15 some workers, which would possibly not be
16 properly assessed by film badges worn on the
17 chest. That was our finding.

18 And NIOSH's response to Finding 3
19 was, "In principle, NIOSH agrees with the
20 basic concerns, but believes that the dose
21 reconstructor will recognize the need for
22 making necessary dose adjustments."

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1 I guess that is perhaps not as
2 obvious to SC&A as it is to NIOSH. And I
3 think in our write up, we talked about the
4 fact that these people may have handled
5 uranium metal, and of course contact doses for
6 doing so to -- to the hands might be as high
7 as 230 milligrams per hour, and so forth, and
8 would potentially not be necessarily
9 documented by a film badge worn on the chest.

10 So, at this point, I'm not sure
11 what NIOSH intends to do, if anything in
12 raising that to a higher level of awareness.

13 CHAIRMAN GRIFFON: If you notice,
14 in the matrix, there is a resolution. At
15 least indicated something on 11/5/09, that
16 NIOSH will check to see where/if the approach
17 is outlined within NIOSH procedures. And I
18 think someone said that possibly TIB-13 may
19 address this issue.

20 So, I think you were going to
21 check back to see if there was actually enough
22 guidance out there for the dose reconstructor

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1 to -- at least that seems -- based on what
2 Hans said, that seems like what that's saying
3 there. So, I think it would remain a NIOSH
4 action item check.

5 MR. HINNEFELD: Yes, it is.

6 CHAIRMAN GRIFFON: Okay, if
7 there's adequate procedures to give the dose
8 reconstructor direction on how to proceed.

9 DR. MAURO: I'd like to add a
10 little to that. Two things I want to report.
11 NIOSH -- the strategy NIOSH has opted is to
12 take two data of non-penetrating film badge
13 readings, and pick off the upper 95th
14 percentile, and came up with something: the
15 fault value as the surrogate, which I believe
16 is 1.8 milligrams per hour.

17 There are two aspects to that we
18 want to keep in mind. One is of course that
19 value represents we believe uncorrelated data,
20 because the comment Harry made about
21 penetrating, but also non-penetrating. And
22 second, we found that 1.8 milligrams per hour,

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1 when you compare that to a contact skin dose
2 of over 200 milligrams per hour, is a big
3 difference.

4 So, by not taking into
5 consideration the possibility of, you know,
6 only use the added distance reading on a film
7 badge, the person may very well handle
8 material, even for a relatively short period
9 of time.

10 So, it's not a small difference.
11 It's a big difference. There was another
12 point I wanted to bring up. It's during our
13 one-on-one session when we had these meetings,
14 one of the things that came up, which was
15 unusual but we included, had to do with a
16 particle settling -- when you're working in an
17 environment where there's lot different
18 particles, material settling on the skin, on
19 the neck, around the ears, and whether or not
20 you'd want to try to factor that into your
21 dose.

22 Because the 1.8, you know, you got

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1 particles of uranium. It may only be there
2 for the day, because then you shower. But
3 this is one of those places near Paducah where
4 they had these kind of -- where there's
5 evidence that airborne particles of uranium.
6 A lot of these AWE facilities have that at
7 issue, and I don't think we've ever really
8 engaged that. You know, the direct deposition
9 of particles on bear skin.

10 And I think in some cases, you may
11 have looked at that. You see things like bar
12 skin. In other cases, you haven't. I think
13 that may be a generic issue that needs to be
14 cut across the board, and how that can be
15 dealt with. It's a big deal when it comes to
16 skin dose.

17 DR. ULSH: Okay, is that a part of
18 Finding 3?

19 DR. MAURO: It is part of Finding
20 3. Finding 3, if you -- I have the report in
21 front of me. That's why I brought it up.
22 It's mentioned in Finding 3.

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1 DR. ULSH: Okay.

2 CHAIRMAN GRIFFON: And I know we
3 at least raised this last meeting, because I
4 can remember the discussion about it can be
5 difficult to -- yes, especially if you don't
6 know, it can be difficult to quantify.

7 DR. MAURO: We did some generic --
8 in another venue, we ran some calculations if
9 you had different size particles, relatively
10 small particles, of uranium deposit on skin.
11 So, I mean this is -- you can -- in theory,
12 one could argue if the situation exists, the
13 only thing I'm not sure of -- let's say a
14 person has skin cancer on the back of his
15 hand, all right?

16 I'm not sure how you deal with
17 this. Do you assume that, "All right, I'm
18 going to reconstruct the dose through skin?"
19 Okay, and the way you normally do it is using
20 OTIB-17, which is based on a full over here.
21 So, you come up with your number, and you got
22 your dose, and you do your calculation.

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1 But now you say, "Wait a minute.
2 Wait a minute. At this site, it's not unusual
3 that he's doing grinding, and he doesn't have
4 gloves or whatever, that you can get some
5 maybe on your face. And if the cancer is
6 there now, what do you do?"

7 I assume that particle of uranium
8 is what did it. That particle landed here,
9 sat there for a day, delivered whatever dose
10 that might be, and you reconstructed those --
11 that little spot. I'm not sure, and I owe it
12 -- it's sort of like one of these problems
13 that turn your brain into a knot. How do you
14 deal with that? Do you assume that that
15 cancer was due to that dust particle that went
16 right there?

17 And I'm not -- and we really never
18 engaged this conversation. How do you deal
19 with that kind of problem. I'm not even sure
20 how the risk coefficient for skin works.

21 DR. ULSH: Well, actually, that's
22 an interesting point. When you said that, the

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1 thing that I was thinking of was hands and
2 face. I mean the skin background rate doesn't
3 break it down to different areas of the body.

4 DR. MAURO: Yes, for good reason.

5 For good reason. How does the risk
6 coefficient work for skin cancer? And
7 apparently, there's -- it's treated a very
8 special way in Iraq, and quite frankly, I
9 don't fully understand it. And it goes toward
10 this issue. So, anyway, this has been
11 troubling me for some time.

12 CHAIRMAN GRIFFON: Okay, now, what
13 you just said, John, also reminds me that
14 sometimes in the matrix we can lose sight of
15 some of the details in the full report. You
16 know?

17 DR. MAURO: Oh, yes.

18 CHAIRMAN GRIFFON: We often got to
19 remind ourselves to go back to the full body
20 of the report. Because I would've missed that
21 one completely, yes.

22 DR. MAURO: That might be one of

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1 the generic issues, because we discussed this
2 before, and I think you may -- it may be in
3 the box of generic issues.

4 CHAIRMAN GRIFFON: At least that
5 part may be.

6 DR. MAURO: Yes, that part. Oh,
7 yes, that part.

8 MEMBER MUNN: It really ought to
9 be because we're not going to find any sites
10 where you don't have exposed hands and skin.

11 DR. MAURO: Well, you don't always
12 have particles settling. I mean no doubt a
13 lot of these AWE's this -- these parts apply.

14 MEMBER MUNN: Anywhere there's any
15 kind of machining, grinding or any kind of
16 fuel activity going on.

17 DR. MAURO: Yes.

18 MEMBER MUNN: But then the big
19 question then becomes but is it any different
20 than if that person were my uncle, who had
21 significant amounts of skin cancer all the
22 time, and didn't have anything to do with --

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1 DR. MAURO: It's like smoking.

2 MEMBER MUNN: Yes.

3 CHAIRMAN GRIFFON: All right,
4 let's look at number 7 -- or is it 4. Did I
5 skip over 4? Sorry.

6 DR. BEHLING: Are we on number 4?

7 CHAIRMAN GRIFFON: Yes.

8 DR. BEHLING: That is probably on
9 par with Finding number 2. The -- the finding
10 was that the Site Profile would benefit from a
11 "leave one out," analysis of the data, and
12 that again goes back to Harry. And there
13 response, NIOSH's response, was that NIOSH
14 agrees with the finding, will conduct
15 additional analysis.

16 So, Harry and NIOSH I guess need
17 to -- to weigh in on that issue.

18 MR. HINNEFELD: Yes, we don't have
19 anymore to provide.

20 CHAIRMAN GRIFFON: Yes.

21 DR. MAURO: This is --

22 CHAIRMAN GRIFFON: I remember

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1 this discussion.

2 DR. MAURO: This is an important
3 and interesting idea because it goes to the
4 coworker models. One of the biggest problems
5 we always encounter is you got a group of work
6 groups that have data. Let's say it's
7 internal data. And then you're going to use
8 that data set to build a coworker model, which
9 is going to apply to other workers that may
10 have had different jobs, or to other time
11 periods.

12 And always the question is what
13 makes you think that that group of workers
14 uses surrogate in its narrow sense, for that
15 site, those workers, to another group of
16 workers? And Harry basically came up with an
17 answer.

18 It says there are ways of dealing
19 with that kind of problem, and it's called the
20 leave one out approach. And Harry certainly
21 could explain it, but I found it very valuable
22 because what it does is it strengthens the

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1 ability to build a coworker model that is
2 compelling; that you considered, explicitly
3 considered, yes, we're going to apply that
4 data to perhaps a group of workers that might
5 be a little different, and perhaps a little
6 different time period at the same facility.

7 And the leave one out approach
8 that Harry describes in some detail in the
9 report is a way to get at that, and try for a
10 more -- give you a stronger case that you can
11 do what you're doing.

12 MR. HINNEFELD: Yes.

13 CHAIRMAN GRIFFON: Okay, do you
14 need any further description of Harry's --

15 MR. HINNEFELD: No.

16 CHAIRMAN GRIFFON: He went over it
17 last time.

18 MR. HINNEFELD: He went over it
19 last time, and you go back to the original
20 write up. Just like everything else, it's
21 written pretty clear.

22 CHAIRMAN GRIFFON: Okay. So,

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1 we'll look at number 5.

2 DR. BEHLING: Okay, number 5, I
3 think we have a partial resolution and a
4 partial outstanding issue. Number 5 deals
5 with residual contamination levels and
6 inhalation exposures. And in Table 5.1 in the
7 write up TBD, there was a 100-fold error,
8 which I believe NIOSH has fully acknowledged.

9 But in addition to that particular
10 error, which I assume was perhaps a type
11 error, I also have identified a couple issues
12 that are discussed in section 3 of my White
13 Paper, called, "A New Issue Concerning Finding
14 Number 5." And one of the things that I
15 identified was the original or the corrected
16 value of approximately 7 picocuries per day as
17 an inhalation was based on a resuspension
18 factor of $1E$ minus 6.

19 And I raised that as an issue
20 because in another document, I questioned that
21 generic resuspension factor $1E$ minus 6, and
22 concluded that for many facilities such as

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1 this, perhaps an E minus 4 might be
2 appropriate, and I support that in -- in -- on
3 page 5, by talking about the reason number 2,
4 for those of you who have it.

5 And if you look at the actual
6 data, you find that the estimates that were
7 derived in -- or the measurements that were
8 taken in -- let me quickly read here. In 1976
9 were -- 15 years later were actually three
10 times higher than the predicted dose, the
11 predicted air concentration, in 1961, meaning
12 that among other things, the decay factor of 1
13 percent per day was totally ignored in the
14 value because it applies for all times around
15 a time dependent air concentration.

16 And I believe NIOSH did
17 acknowledge this, and promised to look into
18 that.

19 MR. HINNEFELD: Yes, this is
20 actually kind of part and partial of the
21 general resuspension question that's out
22 there. The generic resuspension.

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1 DR. MAURO: Regarding the -- this
2 goes to our TBD-6000. We've really made some
3 very important progress in one regard. When
4 all is said and done for the residual period,
5 there were two big questions that we were
6 struggling with, and it cuts across the board
7 for every residual theory that is worked on at
8 any site.

9 One is calculating how much
10 material has deposited on the surface, and
11 then once it's deposited on the surface, which
12 of course will contribute to your direct
13 radiation exposure, but also to resuspension,
14 we originally took a position that, and this
15 has an across the board affect, the way in
16 which you calculate the amount of activity
17 that is deposited on the surface, so you get
18 your Becquerels per meter squared, was based
19 on a model where you had a certain dust
20 loading, and you had this .0075 meters per
21 second.

22 I was always critical of that

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1 because I felt that the stuff that's on
2 surfaces is not from that. It's from these
3 lost particles that are always flowing out.
4 But you -- in our last TBD-6000 meeting, the --
5 - the -- we found that that works. That works
6 when you allow a year's worth of that stuff
7 falling to the surface, you get Becquerels per
8 meters squared that is borne out by actual
9 material measurements at many places we were
10 in.

11 CHAIRMAN GRIFFON: This is the
12 Adley report?

13 DR. MAURO: The Adley report,
14 right, exactly. They had the plates laid out,
15 and son of a gun. I have to say, I was
16 surprised that it worked. But we still have --
17 - so, that issue at so many places has been
18 resolved. But the resuspension factor that
19 you folks continue to use: 10 to the minus 6
20 per meter, and that's not good enough. Five
21 or 10 to minus 5, or maybe even higher 10 to
22 minus 4 is much more appropriate, unless you

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1 know for sure that the site is clean.

2 In other words, you know there's
3 not contamination. But that's not the case.
4 Most of the AWE sites we're dealing with some
5 -- you know, there's activity on the sites.
6 And people are moving around, kicking it up,
7 and 10 to minus 6 doesn't work there.

8 MR. HINNEFELD: Okay. It's just
9 part of the broader response that we owe.

10 DR. BEHLING: And then as I said,
11 I'm not sure to what extent the other issue
12 that I addressed on page 5 and 6 is really
13 remedied by revising the resuspension factor.

14 It could be, but the resuspension factor and
15 the value that was cited there has to be a
16 dynamic value because obviously we have to
17 take into consideration the vacation factor,
18 whatever that may be. And there, we also had
19 previously mentioned our concern about a 1
20 percent removal rate as a generic value.

21 But in the particular cases we're
22 talking about here, on page 5, I quote

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1 directly from the document. And we ended up
2 with a 1961 air concentration that is three-
3 fold lower than the one in empirical value
4 that we estimated in 1976.

5 So, obviously, we have a problem
6 here with regard to the absence of a dictation
7 value.

8 CHAIRMAN GRIFFON: Okay, I mean
9 I'm not sure on this one whether it just falls
10 on the generic issue yet, or if it's still a
11 question as it pertains to this particular
12 site.

13 MR. HINNEFELD: Yes. We already
14 owe several --

15 CHAIRMAN GRIFFON: Yes.

16 MR. HINNEFELD: So, I mean if we -
17 -

18 CHAIRMAN GRIFFON: I'll just keep
19 it on here for you now.

20 DR. MAURO: In general, a lot of
21 the work that we're doing now was done before
22 OTIB-70. OTIB-70 is -- whereby you know the

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1 story.

2 MR. HINNEFELD: Right.

3 DR. MAURO: There is a lot of
4 granularity to OTIB-70. There's one
5 particular strategy that you've adopted in
6 there that I think is -- solves an awful lot
7 of hills regarding residual period. And if --
8 and if that approach is used, which we talked
9 about on the phone, the details, it's the
10 perfect solution to just so many of these
11 residual questions.

12 Rather than going to the flush
13 route measurements that were taken in 1978,
14 1980, and assuming that represents the
15 airborne and dust -- for the entire residual
16 period, go -- go to the end of the operations
17 period. Take a look early in the residual
18 period. See what you got there, and let that
19 start it, and then let it drop down to the
20 period, and there's a solution. It's a
21 universal fix.

22 CHAIRMAN GRIFFON: Can I ask --

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1 we're going to Finding number 6, and that
2 speaks directly to the resuspension of -- is
3 that different than number 5 that we're
4 talking about?

5 MEMBER MUNN: Are we back on the
6 matrix?

7 CHAIRMAN GRIFFON: Yes.

8 MEMBER MUNN: Okay, I'm not there.

9 CHAIRMAN GRIFFON: Maybe if it's
10 just broken out.

11 MEMBER MUNN: The original --

12 CHAIRMAN GRIFFON: That's the
13 second part of 5 or something. I don't know.

14 MEMBER MUNN: The original
15 attachment matrix, or our matrix? The matrix
16 you're working on --

17 CHAIRMAN GRIFFON: It's the
18 summary -- it's the matrix with the attachment
19 that says at the tail end of it --

20 MR. HINNEFELD: I don't see a
21 Finding 6.

22 CHAIRMAN GRIFFON: Attachment 1.

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1 MEMBER MUNN: I have attachment 1,
2 but I only have five findings.

3 CHAIRMAN GRIFFON: I don't know if
4 you're working from -- what I might've done is
5 taken that second part of 5 and made it a
6 separate finding. It's a new 5, because I
7 think Hans was calling it, "New finding
8 related to 5." And I might've put it in the
9 matrix as number 6, because it's a separate
10 finding.

11 DR. MAURO: So, on to 5. My
12 understanding of the original 5 was this is a
13 100-fold -- I lost track here.

14 DR. BEHLING: Yes, that's correct,
15 John. I think NIOSH acknowledged that 100-
16 fold error.

17 DR. MAURO: On the second half of
18 that now, let's call it 5A or whatever.

19 CHAIRMAN GRIFFON: I called it 6.
20 That's where the confusion --

21 DR. MAURO: And -- and --

22 CHAIRMAN GRIFFON: And that would

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1 be the resuspension factor.

2 DR. MAURO: Yes, and Hans, could
3 you give it to us again, the essence of this?

4 DR. BEHLING: Yes. The essence is
5 that if you apply the 1E minus 62 suspension
6 factor, which was used to derive the air
7 concentration for 1961, you end up with one
8 picocuries per cubic meter, but then there was
9 an empirical measurement 15 years later, that
10 has it 3 picocuries per cubic meter, and of
11 course you have not only a three-fold
12 difference between what was assumed for 1961
13 based on the resuspension value that is
14 basically an assumption, and an empirical
15 measurement taken 15 years later, which is
16 three times higher, but you also -- that
17 discrepancy between one versus three, and
18 being separated by 15 years doesn't even
19 account for the depletion values.

20 So, you realize that you have to
21 come to the conclusion that the resuspension
22 factor 1E minus 6 may be off by several orders

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1 of magnitude to make those two values match.

2 Am I --

3 DR. MAURO: I got it. In fact,
4 what we really have is the marriage of two --

5 DR. BEHLING: Yes.

6 DR. MAURO: One generic, and one
7 applicable to this particular problem.

8 DR. BEHLING: Right. The use of
9 $1E$ minus 6 is -- I think here you have
10 empirical data that suggests that the $1E$ minus
11 6 resuspension factor cannot be correct
12 because you have an air measurement 15 years
13 later that suggests the value that is three
14 times higher, without even considering the
15 depletion rate.

16 But NIOSH's use of 1 percent per
17 day, if you were to apply that, you would
18 probably end up with a resuspension factor
19 that instead of $1E$ minus 6 would be 1,000-
20 fold or even greater.

21 CHAIRMAN GRIFFON: And this is
22 exactly where, in the resolution I have now,

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1 it's kind of come together. I think that
2 factor of 100 thing is resolved. I think
3 NIOSH agreed with that, and then this is like
4 the 5A. In the resolution, we say, "Global
5 issue regarding the use of the resuspension
6 factor, and NIOSH will follow up on the use of
7 the site specific information to derive a site
8 specific resuspension factor."

9 So, I think that's the two parts
10 you were talking about. One is the generic,
11 and one is site specific. So, that is in this
12 current matrix. It's the one that I emailed.
13 People aren't working from the same one.

14 DR. MAURO: You could almost think
15 of the example as it applies to this problem
16 as a demonstration that that basic strategy
17 was adopted really doesn't hold up. And it's
18 one of those places where we actually have
19 data that shows the 10 to the minus 6 doesn't
20 work, the 1 percent per day doesn't work. It
21 seems like real world, didn't work here.

22 CHAIRMAN GRIFFON: So, for

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1 purposes of our matrix here, going back to the
2 matrix for the attachment, I'm showing that
3 the one -- for Finding 5, I'm showing that
4 NIOSH agrees and will modify site matrix table
5 5.1. That's the factor --

6 DR. MAURO: That's the 100 --

7 CHAIRMAN GRIFFON: And then I'm
8 calling the next one 5A, because I think
9 that's easier to correlate back to the White
10 Paper, instead of calling it 6. And that's
11 the resuspension factor, and the site specific
12 and generic. And especially for this -- for
13 our purposes here, I think you need to look
14 into the site specific one. We had all these
15 generic issues that we are going to have to
16 send down the line, but at least address that
17 site specific question that Hans is outlining.
18 Does that make sense?

19 All right, then we are onto --
20 well, I'd like to go to the final set, the
21 main Site Profile.

22 DR. MAURO: Huntington?

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1 CHAIRMAN GRIFFON: This is
2 Huntington, right? Yes.

3 DR. MAURO: That's the last one.
4 I don't think we've ever engaged that one at
5 all. I'm assuming this is unlike the last
6 two, where we did have a chance to discuss.
7 Did we ever discuss Huntington? I don't have
8 it. I guess that's a question for everyone.
9 Do you recall? Is that in your matrix? Were
10 there some responses? I don't have -- I don't
11 have it if there are.

12 It turns out in our report, we had
13 11 comments. No, 12 comments. I don't know
14 if we've ever talked about those before.

15 MR. HINNEFELD: I don't know that
16 we've had any conversations. I'm trying to
17 recall. I know that that document has been
18 revised. I think it was sent for review.
19 Maybe not. I know there was an early on dose
20 reconstruction.

21 DR. MAURO: Oh, yes. We've
22 discussed this --

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1 MR. HINNEFELD: And there has been
2 -- and there has been some stuff on that. To
3 me, it hasn't been done -- let me see what I
4 can find.

5 CHAIRMAN GRIFFON: So, where do we
6 stand with Huntington? Are you going to --

7 DR. MAURO: I could give you the
8 30 seconds --

9 CHAIRMAN GRIFFON: Yes.

10 DR. MAURO: -- of where the issues
11 are, and you guys could -- there's 12 of them,
12 but we could buzz through them very quickly.

13 CHAIRMAN GRIFFON: All right,
14 let's go through Huntington, and then I'm
15 going to ask to go back through Harshaw
16 because I found Harshaw on the matrix.

17 DR. MAURO: Do you want to --

18 CHAIRMAN GRIFFON: And I just want
19 to review that because I looked --

20 DR. MAURO: Do you want us to go
21 back?

22 CHAIRMAN GRIFFON: Before we just

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1 said Harshaw 1, 4 and 5, I told Brant the
2 focus should be there. But then when I'm
3 looking back, Finding 2 in Harshaw, my
4 resolution says NIOSH should further assess
5 the data. So, I want to go back through
6 those, but do Huntington first.

7 DR. MAURO: Okay. I'm looking at
8 our Huntington report, and I have the summary
9 in front of me. I don't know if everyone has
10 it, but I'll -- I'll boil it down.

11 MEMBER MUNN: Do you have a clue
12 as to what page --

13 DR. MAURO: Well, it's part of the
14 8th set, and it's attachment 3 to the 8th set
15 of dose reconstructions, if that helps any.

16 CHAIRMAN GRIFFON: So, it's on the
17 tail end of the matrix?

18 DR. MAURO: The end of the -- yes.

19 CHAIRMAN GRIFFON: Like page 60
20 I'm showing, but that could vary.

21 MEMBER MUNN: Go ahead.

22 DR. MAURO: Okay, I'm going to

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1 group them a little bit to make things go
2 quicker. The first two comments have to do
3 with when -- when this was done, this work was
4 developed. The data that was used I believe
5 all came from Oak Ridge Gas Distribution
6 Plant. In other words -- let me back up a
7 little bit.

8 What the Huntington Pilot Plant
9 did was it received nickel barriers, diffusion
10 barriers, from Oak Ridge Gaseous Diffusion
11 Plant, shifted to Huntington, where they
12 processed those barriers to separate out the
13 enriched uranium because there was plenty of
14 uranium sort of embedded in this permeable
15 barrier that was used as part of the
16 enrichment process.

17 And they would separate out the
18 enriched uranium, and return it back in again
19 for use because there was a lot of valuable
20 material. Now, the -- so, therefore, the
21 whole process was, "Okay, let's reconstruct
22 the doses to workers who were involved in

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1 receiving these barriers, and processing them
2 to separate out the enriched uranium."

3 Now, the first comment -- the
4 first two comments we have really go toward
5 the only -- the information that was used and
6 the amount of material that was processed was
7 based on looking at the records of Oak Ridge
8 Gaseous Diffusion Plant. So, I'm looking at
9 the records of the Oak Ridge Gaseous Diffusion
10 Plant, and what was shipped from there,
11 barriers from there, to Huntington Pilot
12 Plant.

13 The first question we have is we
14 believe that both Portsmouth and Paducah also
15 sent barriers there for processing, which
16 changes the throughput. To the degree which
17 that might or might not affect the Dose
18 Reconstruction Matrix? Perhaps not, and
19 perhaps it does.

20 So, I guess 1 and 2 go toward the
21 document. I guess 1 really goes to -- gives
22 us a little bit more of the story of what they

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1 did, and where they received their material
2 from, and how much and why do you know that.
3 And second, what about Paducah and Portsmouth,
4 in addition to Oak Ridge.

5 So, 1 and 2 are sort of like
6 coupled. I want to hear more about the story,
7 and is a richer story, and whether or not it
8 may have some bearing on the exposure matrix.

9 It may not. It may turn out the way in which
10 you've done it doesn't really change, the
11 throughput doesn't change anything. It's hard
12 to say, but that's the first -- those two
13 coupled issues, 1 and 2. Simple as that. I'd
14 like to hear a little bit more about that, and
15 whether you think it might change anything if
16 you factor in the others.

17 CHAIRMAN GRIFFON: John, do you
18 have evidence that the material went from
19 Paducah and Portsmouth, or are you just saying
20 --

21 DR. MAURO: We have -- no.

22 CHAIRMAN GRIFFON: Okay.

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1 DR. MAURO: In the write up, we
2 have information that shows that we believe,
3 but it may not change anything.

4 CHAIRMAN GRIFFON: Right, I
5 understand. I just wondered if that was
6 hypothetical, or if you have --

7 DR. MAURO: Well, I'd have to go
8 look at the wording.

9 CHAIRMAN GRIFFON: That's fine.

10 DR. MAURO: Yes.

11 MEMBER MUNN: You have some reason
12 to believe that this happened.

13 DR. MAURO: We have some reason to
14 believe that they were because --

15 MEMBER MUNN: Whether it's hard
16 data or not.

17 DR. MAURO: Yes.

18 CHAIRMAN GRIFFON: Yes.

19 DR. MAURO: And even if they did,
20 the -- and if it didn't, it didn't. If it
21 did, whether or not it could have an affect on
22 your exposure matrix.

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1 CHAIRMAN GRIFFON: Got you. Okay.

2 DR. MAURO: Number 3, Number 3 is
3 one that could have a pretty significant
4 affect on your exposure matrix for internal
5 exposure. The way in which the internal dose
6 is calculated is knowledge of the dust loading
7 of nickel in the air.

8 Think of it like this. The reason
9 there's airborne radioactivity at this
10 facility is nickel, with it's associated
11 enriched uranium, becomes airborne. And
12 there's lot of measurements made at this
13 facility, where they measured the number of
14 milligrams per cubic meter of nickel with
15 airborne dust loading of nickel in the air.

16 They know the specific activity of
17 how much uranium is associated with the
18 nickel. So, now you know how many milligrams
19 of uranium there is in the air, and what
20 happens is that the -- when you look at the
21 data of the measurements made, you have it as
22 a function of time.

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1 Okay, now, it turns out that they
2 used all the data from early in operations to
3 later in operations to come up with the
4 average dust level of nickel in milligrams per
5 cubic meter. Now, it turns out the time
6 period that this applies to is really the
7 earlier years, and you look at the data and
8 find out the dust loading was much higher in
9 the early years.

10 Our recommendation was that rather
11 than use the overall average dust loading that
12 was experienced over the entire life of the
13 facility, which turns out to be 0.05
14 milligrams per cubic meter, nickel, you
15 probably want to use the dust loading that is
16 applicable to the time period of interest of
17 this site profile, where it's 0.2 milligrams
18 per cubic meter, which is four times higher.

19 So, our finding is that you
20 probably want to increase potential internal
21 exposure from uranium by a factor of 4 because
22 -- for that reason. That's what number 3 is.

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1 So, in other words, the universe of numbers
2 that you use to derive the dust loading
3 included recent data, and old data.

4 The recent data really doesn't
5 apply to this. It's the old data that applies
6 to this dose reconstruction because it's Site
7 Profiled, and if you do that, the dust
8 loadings were higher in the earlier years.
9 So, there you go. That's the nature of the
10 finding. Now, you go and take a look at that.

11 MEMBER MUNN: And we know it was
12 higher in the earlier years because we have
13 readings?

14 DR. MAURO: we have readings. We
15 actually have it by date, and it's in the
16 report. The measurements made by date, and we
17 point out where the break point is, and this
18 break point is the time period you should be
19 using. Not the later ones. Okay, and it
20 makes a four-fold difference. And you can
21 take a look. It's all laid out. Take a look
22 at it and see if you agree.

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1 The next one, item number 4: The
2 dust loading that is -- once you come to your
3 dust load, milligrams or whatever number you
4 decide you're going to use, that's the general
5 air sample. And we all know that general air
6 samples are different than breathing zone
7 samples, and I don't think you have breathing
8 zone samples here.

9 So, there may be a need for an
10 adjustment factor to go from general air --
11 underestimate by several fold. This is
12 certainly something that should be aired out.

13 Now, it may turn out the nature of
14 the operations here is -- you see, this is the
15 difference between breathing zone and general
16 air samples.

17 MEMBER MUNN: Which do you prefer.

18 DR. MAURO: Yes, that's right.
19 Now, you see, this whole business in IRCP
20 Publication 3575 where they make a distinction
21 between breathing zone and air samples: that
22 experience occurs mainly because very often

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1 the dust that's being generate is the workers
2 working with these machines something, and the
3 dust that is over here is a lot different than
4 what the air sampler over there is reading.
5 And you see some big differences.

6 The nature of the work here may
7 not be like that, and it may turn out the
8 general air sample is a pretty good measure of
9 the breathing zone sample. I don't know the
10 answer to that.

11 MEMBER MUNN: Or higher.

12 DR. MAURO: I would say I don't
13 know. I don't know. But I think it needs to
14 be looked at is all I'm saying, and that could
15 have an affect. The case needs to be made
16 wide so it's okay to use general air samples,
17 as opposed to maybe -- we have in the past, by
18 the way, when we ran into this problem; there
19 is a lot of literature on the difference
20 between general air and breathing zone. And
21 so, there are adjustments that could be made
22 that might counter that.

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1 But all of a sudden, we're talking
2 some big changes, though. Because if you do
3 apply the factor of 4, the difference because
4 of the nickel dust loading for the older
5 years, and then you also apply another factor
6 of whatever for -- now we're talking maybe a
7 factor of 10 there. Could be as much as a
8 factor of 10. We're talking some pretty big
9 changes in the internal dose.

10 Let me keep going. We're not done
11 yet. We're on number 5 now. No, 5 confounds
12 it further. You worked with the median
13 numbers, the dust levels. I always argue that
14 -- let's say you had good numbers for nickel
15 loading, and you accounted for breathing zone.

16 Okay, let's say you thought it was all taken
17 care of.

18 Next question is once you have
19 that information, do you use -- do you use the
20 median of all that data, or do you use some
21 high end value? All I could say is that the
22 difference between -- the number -- the

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1 difference between using a median and the,
2 let's say, 95th percentile is another factor.

3 If you want to be claiming favorable, you
4 really want to use the median of your airborne
5 dust level.

6 I will add though that -- so, I
7 mean I just laid out three layers, and that
8 was number 5 I just mentioned. You know,
9 whether you use the median or the 95th. Three
10 days of places where, in theory, you could
11 substantially increase the doses, internal
12 doses.

13 On the other hand, NIOSH elected
14 to use -- assumed the uranium that's in that
15 nickel was 39 percent enriched uranium, when
16 in fact the evidence shows that it really was
17 only 4 percent enriched uranium.

18 Now, the reason that's important
19 is because everything is on a milligram basis.

20 So, I mean if it was a DPM basis, then it
21 would make no difference. So, in that regard,
22 you're extremely conservative by a factor of 4

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1 at the bottom of 39, ten-fold. So, there are
2 some more setting effects here. So, if you
3 were to go with the 4 percent, you got the
4 idea. I wanted to make sure that's laid out.
5 Let me keep going.

6 CHAIRMAN GRIFFON: Why did NIOSH
7 think 39 percent as opposed to --

8 DR. MAURO: I think that was the
9 highest number that was ever handed, but the
10 overall average over the long period turned
11 out to be closer to 4. And they will be claim
12 favorable --

13 CHAIRMAN GRIFFON: The 39 number
14 came from --

15 DR. MAURO: Yes, 39 came from --
16 that was the highest. Now, this has some play
17 -- I forgot to mention --

18 CHAIRMAN GRIFFON: At case 25, is
19 that right?

20 DR. MAURO: I think it was the Oak
21 Ridge Gas Diffusion plant was --

22 CHAIRMAN GRIFFON: Case 125?

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1 DR. MAURO: Okay, there you go.

2 CHAIRMAN GRIFFON: But not at
3 Paducah or Portsmouth, by the way.

4 DR. MAURO: Is that right?

5 CHAIRMAN GRIFFON: Portsmouth
6 could run higher.

7 DR. MAURO: Is that right?

8 MR. HINNEFELD: Portsmouth could
9 run.

10 CHAIRMAN GRIFFON: Yes, not
11 Paducah.

12 MR. HINNEFELD: I don't think
13 Paducah.

14 DR. MAURO: Okay, well, then --
15 so, therefore there's commingling of issues
16 here.

17 CHAIRMAN GRIFFON: Yes, yes.
18 Okay, but on average, I don't think any of
19 them would approach the 39.

20 MR. HINNEFELD: Yes. I hear more
21 and more as we have done revisions. So, it
22 would be a matter for us to go through those

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1 revisions. Hopefully, we've addressed these
2 findings.

3 CHAIRMAN GRIFFON: You're right.
4 At the end of the day, these pluses and
5 minuses may balance out, but they should be
6 sorted out.

7 DR. MAURO: Oh, number 6. Six is
8 a separate one. I don't think you explicitly
9 addressed ingestion. I'll be the first to
10 agree that ingestion there isn't important.
11 It should be the dose, but most of the other
12 Site Profiles talk about ingestion pathway. I
13 don't think this one did at 6. Can we go onto
14 7? Number 7 goes to surface --

15 CHAIRMAN GRIFFON: Can I just back
16 you up on 6 again?

17 DR. MAURO: Sure.

18 CHAIRMAN GRIFFON: I'm catching
19 up. What was 6?

20 DR. MAURO: I'll read it. "The
21 TBD does not mention possible exposure through
22 ingestion pathways, nor justify why they may

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1 not be significant compared to the inhalation
2 pathway."

3 The second half of that phrase I
4 know that the ingestion pathway is never
5 significant compared to the inhalation
6 pathway. But you always do include the
7 ingestion pathway in all your exposure
8 matrices. Apparently, you didn't do that.

9 CHAIRMAN GRIFFON: Okay.

10 DR. MAURO: Seven: This goes
11 toward residual exposures. Basically use --
12 the TBD uses 1980 post decontamination
13 radiation survey data to estimate exposures
14 from surface contamination during plant
15 operations, which was 18 years earlier.

16 So, I'm sort of like troubled by
17 why would you -- there's no reason to believe
18 that host decontamination measurements would
19 be meaningful to -- to reconstruct doses 18
20 years earlier during operations. So, there's
21 a disconnect here that you may want to take a
22 look at.

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1 I would make a suggestion, by the
2 way. I don't think you had -- I don't think
3 there was any data on surface contamination
4 levels during operations at this facility, or
5 maybe even immediately thereafter, of nickel,
6 milligrams per square meter of nickel on
7 surfaces.

8 Our suggestion would be to either
9 run your deposition model, using the dust
10 loading that's appropriate to determine what
11 the build up might've been on surfaces, or go
12 to other -- other nickel melt refining
13 operations where you may have data, rather
14 than using the 1981 post DND data to try to
15 come up with it. There's probably better
16 places to go to get good numbers, or at least
17 claim favorable.

18 Bird cages, number 8. One of the
19 things they did there was they -- once they
20 separated out the enriched uranium, they put
21 them into these little containers that -- I
22 forget what size they were, and put them into

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1 bird cages. These were little devices to keep
2 the critical mass under control, and there
3 were these arrays. I think five -- five by
4 five, two deep.

5 So, one, two, three, four, five.
6 You know, five by five, and then there were
7 maybe 25 of them altogether. And you came up
8 with, "Okay, that has a potential to cause
9 external exposure." And I think you made some
10 calculations to determine, okay, if a person
11 were to stand one foot away or one meter away
12 from these bird cages what his internal
13 exposure might be from this enriched uranium
14 that's sitting in there.

15 We ran the numbers, and we got
16 different values that you do. A big higher.
17 Not that much higher. Maybe a factor of five-
18 fold higher, but we got higher numbers than
19 you did. And it's all laid out. All our
20 calculations are in our report.

21 So, for some reason, we're getting
22 numbers different. It may be because our

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1 experience has been that often we use
2 microshield or MCNP. Microshield and MCNP get
3 the same numbers when you're dealing with
4 strong gammas. Well, when you're dealing with
5 weak gammas weak photons, MCNP gives you much
6 better results than microshield.

7 So, if you ran microshield, maybe
8 that's what happened here. Something goes
9 wrong with microshield when the energy is
10 alone.

11 MEMBER MUNN: What do you mean?

12 DR. MAURO: The microshield
13 underestimates the doses from low energy
14 photons. It does not model it well, yes. But
15 it does -- but MCNP does, and we've seen it
16 time and again.

17 CHAIRMAN GRIFFON: Is that
18 acknowledged in the literature in any way?

19 DR. MAURO: Yes.

20 CHAIRMAN GRIFFON: Yes? Okay.

21 DR. MAURO: Yes.

22 CHAIRMAN GRIFFON: I mean it's not

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1 just your impression?

2 DR. MAURO: No, no. This is our
3 acknowledgment in the literature. Not only
4 that, we've run it so many times, and we see
5 it all the time. It's a flow out with
6 microshield low Ns and photons, X-rays. It
7 falls apart.

8 CHAIRMAN GRIFFON: Okay.

9 DR. MAURO: Nine: let me take a
10 look at that and see where we are. Well, I
11 don't know if this really applies here. We --
12 we reviewed a case in number 9. We talk about
13 an actual couple of cases that we reviewed as
14 part of the DR process. You know, we're on
15 the DR Subcommittee, and we noticed that
16 there's a three-fold difference between the
17 dose reconstructions for medical exposures
18 that are -- were performed in those cases, and
19 those that are in OTIB-6. You know,
20 Katherine's OTIB on X-rays.

21 I think that you might be higher.

22 Let me see. Three times greater. So, there

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1 -- you're coming in -- now, there may be good
2 reason for it. It may turn out that the --
3 for the type of X-rays that were being
4 delivered at that time, the workers at
5 Huntington were different than what's the
6 default values in OTIB-6, and there's good
7 reason why you're coming in with three times
8 higher X-ray doses for specific cases than
9 what OTIB-6 would give you.

10 But anyway, I was just bringing
11 that to your attention. This case was maybe
12 overestimated.

13 Move onto number 10. Oh, number
14 10 is related to that, and this is a recurring
15 thing that when it comes to AWE facilities,
16 you usually don't assume photofluorography
17 examinations. If it's pre-1970, the OTIB-6
18 records recommends that you assume
19 photofluorographic examinations did occur once
20 a year to DOE facilities, specifically.

21 When it comes to AWE facilities,
22 we're not -- we noticed that you typically

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1 don't do that. You typically assume there's a
2 chest X-ray, and not a -- and that turns out
3 of be a big difference. We're talking about
4 anywhere from tens of milligrams per
5 examination versus rems for examination.

6 There may be good reason. I don't
7 know if we talked about this before, but there
8 may be good reason why you don't automatically
9 assume the AWE's using photofluorography,
10 where in DOE, we did. But right now, you'll
11 see a recurring theme in every one of our dose
12 reconstruction audits for AWE facilities when
13 you use just chest X-rays for reconstructing
14 medical exposure.

15 We always say, "Why didn't you
16 also assume photofluorographic?" And usually,
17 they're silent on that. Now, there may be
18 good reason for it.

19 MR. HINNEFELD: The thought
20 process is that at DOE facilities where
21 there's -- there was this need to go through a
22 large number of people with some regularity,

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1 and they would have these high volume
2 photofluorography machines, which were done --
3 they were done to generate high volume things,
4 and if an AWE even had a chest screening
5 program, they were likely done at a local
6 clinic, which would be like they shoot a chest
7 X-ray. That's the reason why the defaults are
8 different for the two. I can't really defend
9 it anymore than having said that.

10 DR. MAURO: Well, I mean there's -
11 - at least -- because we haven't heard that
12 before.

13 MR. SIEBERT: That's correct. I
14 talked to Elise about this, and we are
15 planning on updating some of our documentation
16 to clearly state that. There actually is a
17 back door discussion of it in OTIB-52,
18 construction workers, that gives that general
19 direction, but we are updating some
20 documentation to get that a little more
21 clearly defined.

22 DR. MAURO: Okay. We're almost

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1 done. Number 11: The TBD estimates residual
2 contamination exposure in the standby period.

3 The standby period is post operations but
4 before decontamination. But you use the 1980
5 host decontamination measurement data for dose
6 reconstruction.

7 It goes -- it's sort of similar to
8 what you talked about earlier. It doesn't
9 seem like you should be using post
10 decontamination measurements to reconstruct
11 doses pre-decontamination, even though they're
12 both during the post operation period. Okay?

13 Last, number 12: Same thing. I
14 don't know what the distinction is, quite
15 frankly. We're talking about the same subject
16 here.

17 MEMBER MUNN: Make that 3 that are
18 really talking about the same thing.

19 DR. MAURO: It looks that way,
20 doesn't it?

21 MEMBER MUNN: Yes. The bottom
22 line question is why use the post

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1 decontamination data --

2 DR. MAURO: I got to say off the
3 top of my head, I can't tell the distinction
4 why. I recall 111 and 112. They're both
5 external, and they both deal with residual
6 decontamination. There might be some
7 distinction here, but I have to go read the
8 main body to see why we made these two
9 separate ones. But we may want to take a look
10 at that when we're working through that.

11 MEMBER MUNN: Well, Finding 12 is
12 certainly more detailed than the others.

13 DR. MAURO: Sure is.

14 MEMBER MUNN: It looks like it's
15 the same issue three times.

16 DR. MAURO: Yes.

17 CHAIRMAN GRIFFON: And I was going
18 to ask if Hans or Kathy would know that.

19 DR. MAURO: Don't know.

20 CHAIRMAN GRIFFON: Did you work
21 with -- I mean this is more yours, right?

22 DR. MAURO: Yes. I mean if I -- I

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1 got to tell you, if I went back and read the -
2 - read -- I did read all this before, but it
3 also gets to be a blur after a while. The
4 difference between 11 and 12, there is --
5 there is some -- I'm looking at the summary on
6 12, and there's a lot more granularity to it:
7 comparing tables and inconsistencies.

8 MEMBER MUNN: Yes.

9 DR. MAURO: So, I think maybe 11
10 could be looked at more as a general
11 overarching concern regarding the use of post
12 decontamination data for pre decontamination
13 time periods. And then 12 actually gets into
14 some specifics regarding tables that are in
15 the report that don't seem to make sense, and
16 it's related to that issue. And that's it for
17 Huntington Pilot Plant.

18 MEMBER MUNN: You might as well
19 throw Finding 7 in there when you're looking
20 at that, if that really is the same. The same
21 issues, but --

22 DR. MAURO: You know what happened

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1 when we reviewed this document?

2 CHAIRMAN GRIFFON: Yes.

3 DR. MAURO: I remember I just
4 would go chapter by chapter, and say, "Oh,
5 here's this chapter. What do I have to say
6 about this?" Sometimes, later chapters are
7 related to the previous, and you'll have the
8 same thing come out again.

9 CHAIRMAN GRIFFON: Yes.

10 MEMBER MUNN: They could be
11 combined.

12 CHAIRMAN GRIFFON: Okay, at this
13 point, I wanted to go back to Harshaw and the
14 matrix. Let's just run down these. I don't
15 want to discuss them in any depth, but before
16 we had said that based on Hans' discussion and
17 the -- the SC&A White Paper that the main
18 areas of difference between SC&A and NIOSH
19 were findings 1, 4 and 5. I believe I wrote
20 that down correctly.

21 When I looked back at the matrix,
22 I wasn't quite -- wasn't quite in agreement,

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1 and I just wanted to step through this one at
2 a time, just to make sure we have some
3 consistency. So, this might be a little
4 redundant from what we just talked about, but
5 I just want to make sure I have the most
6 current version of the matrix.

7 So, Attachment 2 is in the matrix,
8 Attachment 2, Finding 1 for Harshaw. And
9 this says NIOSH will further consider SC&A
10 concerns. I have that updated from -- as of
11 today.

12 Then for Attachment 2, Finding
13 number 2, apparently based on what Hans said,
14 SC&A is sort of in agreement now, but this
15 matrix says as of 11/5/09, we were asking
16 NIOSH to further consider the data set. Is it
17 reasonable and representative? Now, is that -
18 -

19 DR. BEHLING: Mark are you talking
20 to me, or --

21 CHAIRMAN GRIFFON: Yes, I'm asking
22 in general.

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1 DR. BEHLING: This goes back to
2 what we had -- I had erroneously misstated in
3 -- in the previous case. We came to some
4 conclusion, but not the remedy itself. I
5 think on behalf of Finding 1, it was not
6 resolved, but for Finding 2, we had at least
7 verbally come to some agreement as -- or on my
8 hand written scribbles on the margin, I put
9 down, "Conditionally resolved."

10 But I think again it depends on
11 the response that NIOSH will provide the
12 Board, or the Board -- that will determine
13 whether or not we can close it out.

14 CHAIRMAN GRIFFON: Okay, so, I
15 think it still stands as a -- I don't think
16 the priorities will change for -- Brant, just
17 to clarify for you. I mean I think the main
18 sort of I guess points of contention are still
19 going to be 1, 4, and 5, but number 2, I think
20 w still did want to see this assessment at
21 least the subcommittee did, as to whether
22 coworker model is representative, right?

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1 Covers all the workers of concern.

2 MEMBER MUNN: Yes.

3 CHAIRMAN GRIFFON: Right. So,
4 I'll leave it on the matrix as an open item.
5 But as far as prioritizing, I would focus more
6 on the -- the 1, 4 and 5 still. Does that
7 make sense to everyone?

8 MEMBER MUNN: Yes.

9 CHAIRMAN GRIFFON: And that goes
10 for 3 as well. I can see that. Now some of
11 this comes back to me. SC&A agrees Mark
12 Griffon wants more time. I know I put a place
13 holder in there somewhere. And this is a
14 radon surrogate model. So, obviously, we've
15 been batting a few of these around over the
16 last several years. Months, years.

17 MEMBER MUNN: Years.

18 CHAIRMAN GRIFFON: Okay, years.
19 Time flies when we're having fun. You know?

20 MEMBER MUNN: I know. You're just
21 enjoying yourself too much.

22 CHAIRMAN GRIFFON: Yes, exactly.

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1 So, again -- and -- and this -- let me refresh
2 my memory. This is a surrogate -- complete
3 surrogate set, right, that you're using for
4 the radon model? Does anyone know?

5 MR. HINNEFELD: Let me think a
6 minute.

7 DR. BEHLING: It's from the
8 Mallinckrodt data.

9 MEMBER MUNN: We used the
10 Mallinckrodt data.

11 CHAIRMAN GRIFFON: Mallinckrodt?

12 MR. HINNEFELD: That would be a
13 surrogate.

14 CHAIRMAN GRIFFON: Which I wonder
15 if that even meets the criteria. I don't
16 know. So, I think I want to look at that.

17 MR. HINNEFELD: I don't know what
18 they had at Harshaw. I don't know what their
19 feed material was.

20 MEMBER MUNN: Both of them.

21 MR. HINNEFELD: Well, it's going
22 to get worse.

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1 CHAIRMAN GRIFFON: Yes, that's
2 what I was just going to say.

3 MR. HINNEFELD: I forget what
4 their material was. Harshaw was a mess, but
5 you know that.

6 CHAIRMAN GRIFFON: I mean Jim
7 Neton constantly uses Mallinckrodt.

8 MR. HINNEFELD: Yes. Well, I mean
9 if you go back to surrogate, the things that
10 determine that kind of thing into play is the
11 generation rate. So, how much radium was in
12 the stuff you were handling -- and so those
13 are things that come into play, and whether
14 Mallinckrodt is sufficiently similar, or --
15 yes, that's a good question.

16 DR. BEHLING: I don't know if
17 anybody has the document, but the issue really
18 centers around something that was resolved at
19 least in our minds. By using Mallinckrodt
20 data, they excluded certain data that were
21 considered inappropriate, namely the scale
22 house data that had some very high radon

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1 levels.

2 And so, the justification on the
3 part of NIOSH was that because they were
4 facing processing, those high values could be
5 excluded because that -- that issue was not
6 appropriate here for Harshaw, and we did not
7 process.

8 MR. HINNEFELD: So, in other
9 words, it's essentially surrogate use. Not
10 really the model use.

11 DR. BEHLING: Yes, surrogate use.

12 DR. MAURO: Yes, I remember. We
13 originally were concerned that you left --
14 there was certain data left out when you --
15 Mallinckrodt, but later on you justified --

16 CHAIRMAN GRIFFON: So, there was
17 good rationale. We didn't have -- they didn't
18 use Congo at Harshaw, but they did at
19 Mallinckrodt.

20 DR. BEHLING: And all we actually
21 asked was to remedy the TBD itself by
22 rewriting it, and I think in my -- my White

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1 Paper, I had quoted the original statement,
2 and suggested a revised statement that
3 addresses that particular issue.

4 MR. HINNEFELD: Okay.

5 DR. BEHLING: But otherwise, I
6 think we're in agreement.

7 DR. ULSH: So, Mark, does this one
8 -- number 3, does this stand that SC&A and
9 NIOSH are in tentative agreement, but you
10 would like --

11 CHAIRMAN GRIFFON: Yes. I think
12 it stands that --

13 DR. ULSH: Yes.

14 MEMBER MUNN: I think it's very
15 clear the way it's written.

16 CHAIRMAN GRIFFON: All right,
17 then.

18 DR. ULSH: And that relates
19 specifically to the appropriateness of using
20 Mallinckrodt surrogate data at Harshaw. Okay.

21 CHAIRMAN GRIFFON: Then Finding 4,
22 I just have a very brief NIOSH follow up on

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1 this. And this is one, Hans, that you still -
2 - 4 and 5 you still have outstanding concerns.

3 DR. BEHLING: Yes. I think really
4 what it comes down to is the complexity by
5 which Tables B-5 through B-8 are to be used
6 for doing dose assessments.

7 CHAIRMAN GRIFFON: Can you repeat
8 that, Hans? I'm sorry.

9 DR. BEHLING: Well, the
10 recommendation for the dose reconstruction is
11 to make use of Tables B-5 through B-8, and
12 they're quite complex and very difficult to
13 work with. And I personally believe that some
14 clarification needs to be made in making them
15 more functionally usable.

16 CHAIRMAN GRIFFON: Okay.

17 DR. ULSH: So, what were those
18 tables again, please?

19 CHAIRMAN GRIFFON: 3-5 and 3-8.

20 DR. BEHLING: B, B as in Boy-5.

21 CHAIRMAN GRIFFON: Oh, B-5.

22 DR. BEHLING: Yes, through B-8.

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1 And there's a lot of subjective interpretation
2 in the use of those tables, and again, I have
3 certain sympathy for the dose reconstructors
4 if they are being asked to actually make use
5 of those tables. I think they could stand
6 some clarification or simplification to make
7 it less subjective.

8 CHAIRMAN GRIFFON: Okay. Thank
9 you, Hans. Now, let's see. I have Finding 5,
10 but then I also have 6 and 7 on this matrix.
11 You only go up to 5 apparently. Anyway, let's
12 do 5 first here. This I deriving beta photon
13 doses from the film badges. I guess this
14 still remains a NIOSH action, right?

15 DR. MAURO: Is this the betas, the
16 packaging and the tenuation?

17 CHAIRMAN GRIFFON: I don't know.
18 Ask Hans.

19 DR. BEHLING: Yes, I'm trying to
20 catch up here myself to refresh my memory
21 here.

22 DR. MAURO: I think it had to do

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1 with calibrating the film badges, and the fact
2 that the --

3 DR. BEHLING: That's correct.
4 Yes, John, go ahead.

5 DR. MAURO: I'm recollecting the
6 packaging was such that you might have
7 shielded out more of the betas than you
8 thought, and I'm not sure about soft X-rays.

9 CHAIRMAN GRIFFON: Yes, it does
10 say, "Follow up on the adequacy of the beta
11 dosimetry calibration at the site."

12 DR. MAURO: And that has to do
13 with the -- we currently looked at the kinds
14 of film badges that were used, and the -- I
15 guess we really got into the details of this
16 thing, and it looked like they were unusual in
17 that they shielded out more beta than we
18 thought.

19 In other words, it was not -- the
20 adjustment factors for a tenuation of the
21 betas were not taken into consideration for
22 this particular type of film badge.

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1 MEMBER MUNN: How significant are
2 the --

3 DR. MAURO: I don't know.

4 CHAIRMAN GRIFFON: And then here's
5 where, John, we have a couple more in the
6 matrix that are not -- I think you -- I don't
7 know if you only went through five in the
8 White Paper, but there is a sixth here, and
9 actually, this says, "NIOSH agrees and will
10 modify the said matrix. NIOSH needs to review
11 it's calculations of inhalation intakes of
12 Type S range throughout the bioassay data. We
13 believe the important numbers are low by about
14 a factor of 5."

15 This is a question of the intakes
16 derived from the urinalysis.

17 DR. MAURO: Yes, I think. My
18 notes say they agree, and they were going to
19 fix that.

20 CHAIRMAN GRIFFON: Yes, it says,
21 "NIOSH agrees, and will modify the site
22 matrix." So, I think that was closed, but we

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1 need -- I guess we need to see the numbers if
2 we're going to see the modification. But at
3 least in abeyance, I guess to use the
4 Procedures Work Group terminology.

5 DR. ULSH: Okay, I got behind.
6 Sorry. Tell me that again real quick, Mark.

7 CHAIRMAN GRIFFON: It was a
8 question of -- there was a question of the
9 intakes derived from urinalysis data?

10 DR. ULSH: Okay, and this is
11 number --

12 CHAIRMAN GRIFFON: It's table --
13 Finding number 6.

14 DR. ULSH: Okay, got you.

15 CHAIRMAN GRIFFON: And NIOSH had
16 agreed at the previous meeting, the 11/5/09
17 meeting.

18 DR. ULSH: Got it. Thanks.

19 CHAIRMAN GRIFFON: And then the
20 last one I have is the -- Finding 7 is the
21 Monday morning sampling, which --

22 DR. BEHLING: Yes, that was

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1 actually identified as a new finding in
2 section 3.2 of the White Paper, and again, we
3 talked about this one on many other instances
4 where the Monday morning versus Friday
5 afternoon prove to be obviously some very
6 different values. And in viewing several Site
7 Profiles, the values in the case here, I quote
8 a ten-fold, and other documents were similar
9 assessments made between Friday and Monday
10 morning.

11 The difference is less drastic,
12 but still it leaves a factor of 2 to 3. So,
13 that's an issue that was brought up as a new
14 finding in the White Paper.

15 MEMBER MUNN: For all of those
16 discussions we've had about this issue and
17 procedure, do you have site specific about --

18 DR. MAURO: It does sound like
19 something we talked about in the procedures.
20 And it really comes home to a roost here
21 because they deal with Type F, S and F at
22 Harshaw.

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1 MEMBER MUNN: I thought --

2 DR. MAURO: And if you were doing
3 the Monday-Friday problem, you got a real
4 problem with F.

5 MEMBER MUNN: I thought -- well,
6 that's why I asked the question. Was all that
7 discussion that we had only site specific?
8 Because we were --

9 DR. MAURO: We did. It just came
10 back to me.

11 DR. BEHLING: Yes.

12 DR. MAURO: What happened was
13 this: there was a generic issue.

14 CHAIRMAN GRIFFON: It's not so
15 much the Monday/Friday thing either. It's the
16 two days off.

17 DR. MAURO: Yes.

18 CHAIRMAN GRIFFON: We got hung up
19 on the Monday analysis.

20 DR. MAURO: Yes. And where we
21 left it is NIOSH's argument was, "No, no, no,
22 no." We have lots of evidence, and this

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1 might've been from another site. This
2 actually might've been like a Y-12 thing or
3 something.

4 CHAIRMAN GRIFFON: Yes.

5 DR. MAURO: I don't know, but --

6 MEMBER MUNN: That's why I was
7 asking the question. I think it was --

8 DR. MAURO: Yes, we did talk about
9 it, and the place where I remember is, "Well,
10 no, we have lots of records that show people
11 have their bioassay taken on Tuesday,
12 Wednesday, Thursday, Friday, and it wasn't
13 just the Monday/Friday thing."

14 MEMBER MUNN: No.

15 DR. MAURO: And then we look into
16 that, and I remember Bob Barton saying,
17 "Well," and here's where things get a little
18 fuzzy. There was still the two day hiatus.
19 Person may have taken Monday and Tuesday off,
20 and went back to work on Wednesday. So, you
21 still had the hiatus. And I think we left it
22 that we agreed to disagree. They -- there was

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1 a time period where everyone agreed the
2 Monday/Friday was real.

3 But then later on as time went on,
4 they may have gotten away from that.

5 MR. HINNEFELD: What I
6 acknowledged was, when I started working with
7 the uranium plant in the early '80s or the mid
8 '80s, a sample that was taken with less than
9 two days off was considered suspect because of
10 the interpretation that was used at the time
11 kind of figured more sampling that quickly
12 after exposure.

13 DR. MAURO: Right.

14 MR. HINNEFELD: But where I
15 worked, the capacity was such that you
16 couldn't collect all your samples after people
17 had two days off. So, you collected everyday,
18 and you would have reinvestigation levels.
19 And so, if you got an early sample and you
20 reinvestigate, you would get a later sample,
21 or you would get a two-day off sample.
22 Something like that.

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1 So, that's what we did where I
2 worked. Now, I don't know about all uranium
3 plants, what they did.

4 CHAIRMAN GRIFFON: And it is kind
5 of a generic issue, but I think we have
6 discussed it on -- because we have to sort of
7 look at --

8 DR. MAURO: Well, you could almost
9 -- as far as a site that's mostly S --

10 DR. BEHLING: John and Mark, I
11 think the real question that NIOSH needs to
12 answer is how does IREP deal with that
13 particular data input when you have urine data
14 that you don't identify as either -- excuse
15 me, as either being a Monday or a Friday
16 sample, and -- and if it turns out that you're
17 -- you're --

18 CHAIRMAN GRIFFON: Or upper end.
19 Yes, okay, I was going to say.

20 DR. BEHLING: If it turns out that
21 IMBA interprets all samples as end of day, or
22 end of a work day sample, when in fact it was

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1 a two-day hiatus, then it's obviously going to
2 misinterpret the actual body burden. I think
3 that's the real crux of the question.

4 MS. BRACKETT: This is Liz
5 Brackett. IMBA assumes a constant chronic
6 intake when you -- when you run a chronic
7 exposure. So, it doesn't have the ability,
8 unless you put in five days a week. You know,
9 unless you keep putting in multiple intake
10 periods, it assumes constant chronic over 24
11 hours a day, seven days a week.

12 We did do some calculation on what
13 it would be if it were five days a week, and
14 two day's break. And in fact, Type S, as in
15 the longest, retained. It gives you the least
16 problem. There's only a factor of 1.2 that --
17 that you'd be off for a constant chronic
18 intake.

19 DR. MAURO: F as in Frank?

20 MS. BRACKETT: S as in Sam.

21 DR. MAURO: Okay.

22 MS. BRACKETT: F as in Frank that

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1 the adjusting factor is 2.9. That's the
2 largest one.

3 CHAIRMAN GRIFFON: Do you have
4 that analysis? That might be useful for -- to
5 put into this discussion.

6 MS. BRACKETT: Yes.

7 MR. HINNEFELD: We may have it.

8 DR. MAURO: We did it also, but I
9 remember F had a factor of 10, or 3. M was 3,
10 F was 10.

11 MR. HINNEFELD: When we discussed
12 this, and this was in our Y-12 discussion --
13 I'm sure this was in the Y-12 discussion. I
14 don't think it was Fernald. It was Y-12. I
15 think it was a Y-12 discussion. We talked
16 about it, and at that time, we identified that
17 we had different numbers than you guys.

18 We've never gone back to resolve
19 that. "How come we got one number and you got
20 another?" That would be something we could do,
21 and we could pull out those files that we ran.

22 "Here's what we did. This is how come we

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1 think the number is this." I mean we can do
2 that.

3 CHAIRMAN GRIFFON: I think that
4 might be useful, if you can talk to Liz and --

5 MR. HINNEFELD: Yes, I mean the
6 magnitude question: does it fix the original
7 question, which was --

8 CHAIRMAN GRIFFON: Right, right.

9 DR. MAURO: And another on the --
10 that started to come back is the reality is
11 the intakes are not chronic. The intakes are
12 episodic that occur. So, though it's modeled
13 as it was uniform, the reality in the real
14 world is that --

15 CHAIRMAN GRIFFON: You're
16 smoothing.

17 DR. MAURO: Yes. And then the
18 question becomes, "Okay, so, if the intake was
19 on a Monday, or maybe another one on
20 Wednesday, and then you took a sample on
21 Friday, or you took your sample on Monday," in
22 other words, I think that the argument was

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1 being made that the concerns that we raised
2 are buffered by the fact that the reality of
3 the current situation is that it is not a
4 chronic situation. It's really erratic. And
5 it's really not trackable, so you have to make
6 simplifying assumption.

7 The question is are the
8 simplifying assumptions claim favorable?

9 DR. BEHLING: John, I think they
10 would be because throughout the -- the various
11 time periods when this was done, sometimes at
12 the end of the shift, sometimes with two day
13 hiatus, that was recognized by the AEC, and
14 they came across with strong recommendations
15 as to implement a two-day hiatus in order to
16 put -- to standardize this whole protocol.

17 Now, if -- if IMBA does not take
18 that into consideration, then perhaps at least
19 a Type F; you may be off by at least a factor
20 of 3, as Liz Brackett has just mentioned.

21 MS. BRACKETT: Well, one thing to
22 remember is that if you're doing missed dose,

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1 for example, this wouldn't apply for positive
2 results. But missed dose, the dose
3 reconstructor only used the last sample
4 result. So, it would only make a difference
5 as to whether that one result that is used to
6 do the calculation was collected after a few
7 days period of time off.

8 So, that's something that would
9 have to be looked at. It's very specific to
10 the case. But we do have calculations, and I
11 agree we do need to figure out why the
12 difference. I think it might be because you
13 come to some equilibrium after a while, and I
14 think if you looked at just one week, if you
15 looked at five days versus seven days, I think
16 in that one week, the factors probably would
17 be larger.

18 Then, as you went out in time a
19 year or two years, it's going to come down to
20 a smaller difference, and I believe that's
21 where our values come in is assuming it's been
22 a relatively lengthy chronic intake, as

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1 opposed to a one-week one. I'm not certain,
2 but that would be my guess.

3 DR. BEHLING: Yes. And I agree,
4 Liz, because obviously if you have a very
5 large sizeable body burden that contributes to
6 the urine excretion after a certain number of
7 years of employment, the difference between an
8 end of shift or two day hiatus would be
9 mitigated by that larger body burden.

10 MS. BRACKETT: Right.

11 CHAIRMAN GRIFFON: Okay. I mean
12 the best I can capture that is that NIOSH will
13 be -- provide their analysis files for us, and
14 we'll move the description along that way.
15 There might still be a site specific question
16 of whether there's any indication that this
17 type of sampling was prevalent at the site.

18 But I mean the other option may be
19 in the absence of knowledge is there a way to
20 correct for it? Or, I've done a favorable
21 correction factor or whatever.

22 MR. HINNEFELD: I just comment

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1 with respect to -- Hans made a point, and I
2 think this -- I don't remember this
3 specifically, but it sounds like it could've
4 very well been ADC said, "Hey, you guys maybe
5 should use two day off samples." I think
6 that's what Hans said.

7 CHAIRMAN GRIFFON: Right.

8 MR. HINNEFELD: If your lab can't
9 do that, if you don't have the capacity in
10 your lab to do that, you still wouldn't do it.

11 You would collect samples when you could take
12 them. You'd consider them screening. And if
13 you have a reinvestigation level --
14 reinvestigation level, you would make sure you
15 collected a two-day off sample stat.

16 DR. ULSH: Okay, I have down that
17 we're going to provide the analyses that Liz
18 referred to, and that might speak to why SC&A
19 and NIOSH have different numbers. But my
20 understanding that that analyses wouldn't
21 address the larger issue of this time off --

22 MR. HINNEFELD: I think that we

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1 came in here owing a response.

2 CHAIRMAN GRIFFON: Right, right.

3 MR. HINNEFELD: So, we still owe
4 that response.

5 MEMBER MUNN: And because this
6 keeps coming up again and again in different
7 venues, it's the same issue, the same problem,
8 and we have the same people who are going to
9 have to address it one way or another. It is
10 feasible to ask that we put together not an
11 extensive but a brief White Paper that
12 addresses these primary issues that do seem to
13 come up again and again? First at one place
14 and then another.

15 If we -- is it feasible? I'm not
16 asking for an action item. I just am asking
17 the question.

18 MR. HINNEFELD: I don't know, but
19 I think the proper vehicle to do that would be
20 in our response that we already owe on Finding
21 number 6 or 7, or whatever it is. Seven.

22 MEMBER MUNN: I agree.

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1 MR. HINNEFELD: And if --

2 MEMBER MUNN: I'm just asking.

3 MR. HINNEFELD: And rather that
4 just write a few lines here, we could write a
5 White Paper and provide it in that response.
6 I think that could take place, if we can do
7 that. I'll have to go back and --

8 MEMBER MUNN: Yes, yes. And it
9 would -- I know it would certainly be simpler
10 if we had a single focal point for addressing
11 the question.

12 MR. HINNEFELD: Yes.

13 DR. MAURO: Not to stretch it out,
14 but it seems to me this is really a play, and
15 it's F - we're dealing with UF6.

16 CHAIRMAN GRIFFON: Right.

17 DR. MAURO: You're not dealing
18 with UF6. Even if you're dealing with M, and
19 there's a protracted exposure to M, you're
20 going to build up a body burden, and the
21 difference between Monday and Friday because
22 of the protractor build up is not going to

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1 really change things that much.

2 So, the antennae should go up when
3 we have a site where people have been working
4 with F, and there are sites like that, Harshaw
5 being one of them. I know that they -- there
6 are a couple of them that their whole job was
7 to convert from UF4 to UF6.

8 MEMBER MUNN: Yes.

9 DR. MAURO: And there are people
10 whose job was to work with the UF6 when I
11 guess it evaporates off.

12 MEMBER MUNN: Yes.

13 CHAIRMAN GRIFFON: Okay, I think
14 we're at a good break point. Take ten
15 minutes. We're through the three mini Site
16 Profiles, for lack of a better word. I think
17 we'll step back into the matrix and sort of
18 plug away for a little while.

19 (Whereupon, the above-entitled
20 matter went off the record at 2:43 p.m., and
21 resumed at 2:56 p.m.)

22 MR. KATZ: Okay, this is the Dose

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1 Reconstruction Subcommittee. We're getting
2 started back up again.

3 CHAIRMAN GRIFFON: All right, I'm
4 impressed that five people are still on the
5 line hanging. Anyway, we're going to go for
6 about one more hour here, and we're not going
7 to get through the eighth matrix, but I figure
8 we could continue our progress on the 8th
9 matrix.

10 I just asked NIOSH this, but
11 Scott, are you on the line?

12 MR. SIEBERT: I am.

13 CHAIRMAN GRIFFON: I'm assuming
14 that -- and Steve said he doesn't think that
15 you had any responses to some of the early --
16 we went up to 155 in the matrix, and I don't
17 know if you had forwarded any response from
18 NIOSH to us. I don't think I've seen any, but
19 I just wanted to check.

20 MR. SIEBERT: That would be the
21 beginning of the 8th set, right?

22 CHAIRMAN GRIFFON: Yes.

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1 MR. SIEBERT: Let me check. I'm
2 pretty sure there have not been.

3 CHAIRMAN GRIFFON: Okay.

4 MR. SIEBERT: I'd have to check to
5 be sure, but I'm -- off the top of my head,
6 I'd say probably you are correct.

7 CHAIRMAN GRIFFON: Okay, that's
8 fine. That's fine. So, what we'll assume is
9 that everything highlighted in my matrix is
10 still an open action up until 156. And then I
11 just wanted to take -- instead of starting
12 over again and rehashing those ones we've been
13 through already, let's take the first cut
14 through from 156 on.

15 And so, that would start with
16 Finding 156.1. Maybe we can do the same
17 approach. Have Doug sort of give an overview
18 of the finding, and then just so NIOSH has an
19 idea.

20 DR. MAURO: While Doug is looking
21 for that, could I make three requests?

22 CHAIRMAN GRIFFON: Three?

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1 DR. MAURO: One-on-one for the 13th
2 set we are -- I'm sorry the 12th set. The 12th
3 set of dose reconstruction audits reviews are
4 in the pipeline, and ready -- we're not far
5 away from being ready to do our one-on-ones.
6 I just want to alert. Maybe you could alert
7 the Board at the 31st meeting.

8 CHAIRMAN GRIFFON: Yes. Did we
9 get team assignments? That would be up to the
10 Chair.

11 DR. MAURO: No. I wanted to
12 remind.

13 CHAIRMAN GRIFFON: I'll take that
14 as an --

15 DR. MAURO: Number two: for the
16 May meeting, we're ready for the 13th set of
17 30. In other words, the next set of 30; by
18 May we should be pretty well cleared of our 47
19 we're moving out right now, and we're ready
20 for a new set of 30.

21 CHAIRMAN GRIFFON: So, we should
22 start our selection?

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1 DR. MAURO: And finally, a
2 troublesome problem: PERs. We delivered a
3 procedure -- and the reason I'm bringing this
4 up here is because there's a crossover between
5 the procedure and the DR Subcommittee. We
6 have submitted to the board a while back our
7 procedure for reviewing PERs. It never was
8 formally reviewed by the Procedure
9 Subcommittee, and approved and recommended or
10 whatever to the Board.

11 As a result, we sort of have been
12 in limbo in terms of getting new PER reviews.
13 We really can't move forward with new PER
14 reviews without our PER procedure being
15 approved. Does that seem to make sense?

16 Now, the way to do that is we did
17 deliver, though, a PER review on PER-12. But
18 -- and the report went out. It's in the hands
19 of everyone. But the problem is the last part
20 of that review is to review some selected
21 cases.

22 We recommend that -- I believe

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1 Hans recommended at least seven, maybe 11
2 cases, to represent the complete cross section
3 of all the different kinds of things that need
4 to be looked at from PER 12, and the question
5 becomes is that -- the selection of those
6 cases, is that a Procedure selection, or is
7 that a DR Subcommittee --

8 CHAIRMAN GRIFFON: I thought we
9 said the DR Subcommittee.

10 DR. MAURO: Okay. So, then we --

11 CHAIRMAN GRIFFON: But I -- I'm
12 not sure.

13 DR. MAURO: That's another thing
14 we need to know, but right now that's sitting
15 in limbo, and we'd sure like to get to work on
16 that.

17 CHAIRMAN GRIFFON: Do you recall,
18 Wanda, what --

19 MEMBER MUNN: We did not reach
20 that decision actually.

21 CHAIRMAN GRIFFON: Right.

22 MEMBER MUNN: But the purpose of

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1 the time that we have set aside for PERs
2 tomorrow is specifically to identify what we
3 have to do, who is going to do it, and how
4 we're going to do it.

5 CHAIRMAN GRIFFON: That's fine.
6 We'll discuss it tomorrow.

7 MR. KATZ: The overall procedure,
8 including that issue.

9 CHAIRMAN GRIFFON: Can I ask one
10 thing though? Didn't you -- when you were
11 describing the PERs, you first said that you
12 couldn't do any reviews until you got the
13 approval on the procedure. And then you said
14 you did one.

15 DR. MAURO: Yes. What happened is
16 we started our reviews. In fact, the first
17 thing we did was we wrote the procedure, and
18 then implemented it. So, we reviewed PER-12,
19 and simultaneously delivered to you what we
20 believe to be a good procedure to the review
21 PERs. So, we actually did one using our draft
22 procedures.

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1 CHAIRMAN GRIFFON: Okay.

2 DR. MAURO: But the reality is,
3 and it was unintentional, to see what really
4 works.

5 CHAIRMAN GRIFFON: Okay.

6 DR. MAURO: Like we always do.

7 CHAIRMAN GRIFFON: That's fine.

8 DR. MAURO: But now we're at the
9 point where we hold off until you guys are
10 happy with the procedure.

11 CHAIRMAN GRIFFON: So, the short
12 answer is we'll discuss it tomorrow at length?

13 DR. MAURO: Okay.

14 MEMBER MUNN: The short answer is
15 I hope we resolve it tomorrow. That was my
16 intention.

17 CHAIRMAN GRIFFON: Resolve, not
18 discuss.

19 MR. KATZ: To recommend to the
20 Board?

21 MEMBER MUNN: Yes.

22 MR. KATZ: And you could be

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1 recommending at the end of the month.

2 MEMBER MUNN: Hopefully.

3 CHAIRMAN GRIFFON: Okay.

4 DR. MAURO: Thank you.

5 CHAIRMAN GRIFFON: Now, back to
6 156.1. Can you tell us the site when you
7 start, too?

8 MR. FARVER: Savannah River Site.

9 CHAIRMAN GRIFFON: All right.

10 MR. FARVER: Worker was a laborer.
11 Worker worked at several facilities including
12 773A, 200F, 221 FB line, and the finding has
13 to do with work location. Failed to properly
14 address all work locations, documented
15 records. Really this talks more about neutron
16 exposure.

17 MEMBER MUNN: Yes.

18 CHAIRMAN GRIFFON: Yes. Was it a
19 neutron area? Is that the kind of question --

20 MR. FARVER: Yes. They do a good
21 summary in their response. Basically, the
22 concern was they used 200 F area which uses a

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1 representative facility in 1998 and `99.

2 The employee was monitored for
3 neutrons in 1998 and `99, and all zeros.
4 Really, this comes back to 156.5, where it
5 talks about failure to explain/account for
6 missed neutron dose.

7 CHAIRMAN GRIFFON: Okay, so they
8 overlap. MR. FARVER: Really,
9 if you close one you close the other.

10 CHAIRMAN GRIFFON: Well, the
11 question is -- I don't know if you had time to
12 review their response enough to make a --

13 MR. FARVER: Yes. First, I
14 disagree with revision 1 TLD, revision 2 TLDs;
15 beta gamma and also separate neutron
16 dosimetry. Because if you look back at the
17 records, it's a separate dosimeter number --
18 and it's issued for 1998, cycle 11 and 12.
19 It's November-December. Whereas the other
20 dosimeters were -- it looks like 1, 4, 7, 10
21 and then approximately a monthly one in 11 and
22 12.

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1 And for those years, according to
2 the TBD, the beta gamma was issued quarterly,
3 and the neutron issued monthly, and it was two
4 separate dosimeters, beginning in 1995. This
5 goes back to the original finding down there
6 on -- on this neutron dose, missed neutron
7 exposure, when he obviously was monitored for
8 neutrons --

9 CHAIRMAN GRIFFON: And I wonder if
10 this -- I'm looking at 156.2, and it looks
11 like this is a compensable case. I wonder if
12 that's why they sort of didn't dig any
13 further. I don't know.

14 MR. FARVER: Well, they didn't
15 know it was compensable at the time.

16 CHAIRMAN GRIFFON: Sure.

17 MR. FARVER: Are we going to talk
18 about the PoC later on?

19 CHAIRMAN GRIFFON: Okay.

20 MR. FARVER: NIOSH determined a
21 PoC of 40 -- high 40's. I don't remember
22 exactly what it was.

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1 CHAIRMAN GRIFFON: Okay, so, it
2 was a closed site.

3 MR. FARVER: But then DOL came up
4 with a different number, pushed it over 50.
5 That finding has -- and that has to do with
6 apparently two different versions of the IREP
7 software.

8 CHAIRMAN GRIFFON: Okay.

9 MR. FARVER: So, they didn't know
10 it was compensable at the time.

11 CHAIRMAN GRIFFON: So, they were
12 assuming --

13 MR. FARVER: They came up with
14 46.144, and then DOL's final decision was
15 50.95.

16 MEMBER MUNN: I'm still not sure
17 exactly what you're saying here. You're -- is
18 SC&A's position that in 1998 and 1999, there
19 should be some neutron dose incorporated in --

20 MR. FARVER: Well, number one, he
21 was monitored for neutrons.

22 MEMBER MUNN: Yes.

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1 MR. FARVER: So, there should at
2 the very least be a missed dose, or
3 unmonitored dose for over here.

4 CHAIRMAN GRIFFON: I think that's
5 the essence of it, right?

6 MR. FARVER: Yes.

7 MEMBER MUNN: Even though he may
8 not have been in a neutron area at that time?
9 Your position is if he was badged for neutron
10 than he should be receiving that, whether he
11 was -- he should be receiving that dose --

12 MR. FARVER: Yes.

13 MEMBER MUNN: Whether he was
14 actually in that area --

15 MR. FARVER: Yes. He was badged,
16 so, we're going to assume that he was in those
17 areas. He was badged for neutrons.

18 MR. HINNEFELD: The response says
19 that although there's -- essentially, it says
20 even though there was a neutron number there,
21 it was all one badge, and a neutron badge.
22 And what you're saying is that's not the case.

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1 MR. FARVER: That's not the case.

2 There were two dosimeters.

3 MR. HINNEFELD: There were two
4 separate badges, and since he wore a neutron
5 badge, he was specifically badged for
6 neutrons.

7 MR. FARVER: Yes.

8 MR. HINNEFELD: Okay, so that's
9 your point.

10 MR. FARVER: Yes.

11 MR. HINNEFELD: Have you submitted
12 your write up of what you just --

13 MR. FARVER: No. It's the first
14 time we've talked about it.

15 MR. HINNEFELD: Okay, all right.
16 So, then, you will send that to us so we can
17 kind of clip it in there.

18 MR. FARVER: Okay.

19 MR. HINNEFELD: I mean Mark can
20 capture it, but -- I mean Mark can capture it,
21 but if you've got something written.

22 CHAIRMAN GRIFFON: I missed some

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1 details in my little summary here, yes.

2 MR. FARVER: I probably have a
3 better version on my computer.

4 MR. HINNEFELD: Whenever, but it's
5 just -- we'll have to go back. I mean that's
6 information where there currently wasn't -- we
7 didn't see it was available to us when we
8 wrote the original response.

9 CHAIRMAN GRIFFON: Yes, especially
10 for something like this where we're trying to
11 track the details. I think a response would
12 be good.

13 MR. FARVER: I can send you
14 responses.

15 CHAIRMAN GRIFFON: I'll do the
16 resolution stuff here, but I'll count on you
17 to provide the details.

18 MR. FARVER: Yes. And in our case
19 write up, we even show a copy of the dose
20 report that has the different dosimeter
21 numbers, cycle numbers.

22 CHAIRMAN GRIFFON: Go on to the

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1 next one.

2 MR. FARVER: That will take care
3 of 1 and 5. Now I'll go on to number 2.
4 Properly covert a photon dose to organ dose.
5 Okay, 2 and 3 are essentially the same thing,
6 56.2 and 56.3. And this was the spreadsheet
7 issue that we've discussed before, and they
8 fixed that. So, those two findings are
9 closed.

10 CHAIRMAN GRIFFON: Say that
11 again?

12 MR. FARVER: It was a workbook --

13 CHAIRMAN GRIFFON: All right,
14 NIOSH corrected the workbook?

15 MR. FARVER: Yes.

16 CHAIRMAN GRIFFON: NIOSH corrected
17 workbook error, and --

18 MEMBER MUNN: Geometry?

19 CHAIRMAN GRIFFON: -- no further
20 modification on the case because there was --
21 it was eventually approved.

22 MR. FARVER: Right. This was

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1 compensable.

2 CHAIRMAN GRIFFON: Compensable,
3 sorry.

4 MR. FARVER: But these are old
5 actions because this was a -- one of the
6 earlier problems with the Savannah River with
7 the workbooks.

8 MEMBER MUNN: Point 2 and point 3.

9 CHAIRMAN GRIFFON: All right and
10 that applies for 156.2 and 156.3?

11 MEMBER MUNN: Correct.

12 CHAIRMAN GRIFFON: Okay, 156.4?

13 MR. FARVER: NIOSH may not have
14 used appropriate data for determining PoC has
15 to do with -- there's different reports when
16 you start looking at the Savannah River
17 dosimetry data. They don't all have the same
18 numbers on the reports. Basically, that was
19 one of the concerns, and --

20 CHAIRMAN GRIFFON: So, NIOSH,
21 you're saying that you selected a one because
22 it was supported by the individual cycle

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1 reports and it was claimant favorable, right?

2 MR. FARVER: Yes. After looking
3 back at that, we agreed.

4 CHAIRMAN GRIFFON: But I guess my
5 -- the bigger question I would have is this a
6 broader Savannah River problem? I mean it's a
7 minor issue here for this case. It doesn't
8 even affect it because it's compensable, but
9 it is an ongoing concern on the use of this
10 data, especially where we're using this data
11 for coworker models. I mean that may come up
12 in the Savannah River Work Group, too. So,
13 that may be more of a Site Profile issue.

14 MEMBER MUNN: Well, it wouldn't
15 affect this.

16 CHAIRMAN GRIFFON: No, it
17 wouldn't. That's what I'm saying. It doesn't
18 affect this case.

19 MEMBER MUNN: And SC&A agrees, so
20 --

21 CHAIRMAN GRIFFON: Agrees with
22 what?

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1 MEMBER MUNN: With the NIOSH
2 point.

3 CHAIRMAN GRIFFON: Agree with what
4 I just said?

5 MEMBER MUNN: Well, they just said
6 they agreed with the NIOSH --

7 MR. FARVER: We have questioned
8 this before about the different types of
9 records.

10 CHAIRMAN GRIFFON: I mean has this
11 come up before with Savannah, though?

12 MR. FARVER: Yes.

13 CHAIRMAN GRIFFON: I'm trying to
14 remember. Yes. That's my point.

15 MR. FARVER: Those are consistent
16 with what they use. Some of it is because
17 some of the external data includes tritium
18 doses.

19 CHAIRMAN GRIFFON: Yes, right.

20 MR. FARVER: And when we brought
21 up about the tritium doses. But as long as
22 you're using a - I forget which record it is -

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1 you're okay.

2 CHAIRMAN GRIFFON: I guess I just
3 don't want to lose track of this when we look
4 at the broader like -- you know, how it's used
5 in coworkers models and stuff.

6 MR. HINNEFELD: Well, it might be
7 something to make sure gets specifically on
8 the plate of the Savannah River --

9 CHAIRMAN GRIFFON: Site Profile?

10 MR. HINNEFELD: Yes.

11 CHAIRMAN GRIFFON: Yes, okay.

12 MR. FARVER: Just want to
13 recognize that the different records contain
14 the different values.

15 MS. BEHLING: Excuse me, this is
16 Kathy. I've seen this many times, and every
17 time I've seen it, usually the dose
18 reconstructor goes in and compares the two
19 records, and even in the workbooks under the
20 individual year, if one disagrees with the
21 other, they will highlight it or put it in
22 red, and they've always used the most claimant

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1 favorable values.

2 MR. SIEBERT: That is correct,
3 Kathy.

4 MR. FARVER: Yes, usually that's
5 done. Correct. Okay, so we can close that.
6 156.6: improperly converting the assigned
7 neutron dose to organ dose. This is the
8 workbook problem, similar to the photons,
9 converting the organ dose. And that was
10 corrected in the workbook update. That one we
11 can close also.

12 CHAIRMAN GRIFFON: You're saying
13 NIOSH made the correction in the workbook?

14 MR. FARVER: Yes, the workbook is
15 correct.

16 MR. HINNEFELD: And this is the
17 same geometry for neutrons.

18 MR. FARVER: Yes.

19 CHAIRMAN GRIFFON: Okay, and
20 that's closed. Okay, 156.7?

21 MR. FARVER: Fission products:
22 calculation of method underestimates fission

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1 product dose. This is the -- expect the
2 ongoing full body count fission product
3 question.

4 MR. SIEBERT: That's correct.
5 It's the same issue.

6 DR. ULSH: Is the resolution the
7 same? I think it was OTIB-0054, right?

8 CHAIRMAN GRIFFON: So, this
9 predates the 54, right? They used the
10 radionuclide chooser.

11 MR. FARVER: Right. This was the
12 chooser, radionuclide chooser.

13 MR. SIEBERT: Well, that doesn't
14 necessarily mean it pre-dates OTIB-0054. Once
15 again, OTIB-0054 does not presently apply to
16 whole body counts.

17 CHAIRMAN GRIFFON: Oh, okay. I
18 apologize. Okay.

19 MR. FARVER: It's the same one
20 from the seventh set.

21 CHAIRMAN GRIFFON: Okay, so it's
22 being deferred to TIB-0054, and its

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1 application 2, whole body count results; is
2 that correct?

3 MR. SIEBERT: I believe so.

4 MS. BEHLING: Yes.

5 CHAIRMAN GRIFFON: So, is this
6 being moved to the -- like we did before,
7 moved to the Procedures Committee for OTIB-
8 0054? It's the same findings so it won't add
9 work load, Wanda.

10 MEMBER MUNN: Yes. Got it.

11 CHAIRMAN GRIFFON: All right,
12 transfer to Procedures.

13 MR. FARVER: And then for 156.8,
14 this is where we questioned the -- did NIOSH
15 derive and the DOL derive PoC? They're
16 different. NIOSH gives a good explanation, or
17 gives an explanation. I wouldn't say it's
18 good one. It's an explanation.

19 MR. SIEBERT: Dang, Doug.

20 MR. FARVER: I'll give you an
21 inch. I have to be tough on you, Scott.

22 CHAIRMAN GRIFFON: So, where are

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1 we at with that?

2 MR. FARVER: Okay, it's okay.

3 They explain why there's a difference.

4 MEMBER MUNN: Acceptable response.

5 MR. FARVER: Yes. It's almost
6 good.

7 CHAIRMAN GRIFFON: Because NIOSH
8 isn't even supposed to be calculating PoCs,
9 right?

10 MR. HINNEFELD: Anything we do
11 doesn't count. Yes, a lot of that change in
12 lung model was where we adopted the NIH change
13 when it was more favorable to the claimant,
14 and when it wasn't, and the NIH change wasn't
15 more favorable then we stuck with the old
16 version.

17 CHAIRMAN GRIFFON: Okay, and then
18 we have an observation. Doug, would you like
19 to make an observation?

20 MR. FARVER: I'll make an
21 observation. This should be reevaluated for
22 insoluble plutonium.

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1 DR. ULSH: Wait. Is this still on
2 156.8?

3 MR. HINNEFELD: Well, it's 156
4 observation.

5 DR. ULSH: All right.

6 MR. FARVER: Since NIOSH was
7 overruled, and the case was compensated,
8 there's no need to rework it. So, closed.

9 CHAIRMAN GRIFFON: Okay. I guess
10 that's closed. It's an observation anyway.

11 MR. FARVER: Yes.

12 CHAIRMAN GRIFFON: Yes, I'm just
13 wondering. It might be relevant in terms of
14 our PER reviews. I mean are you basically
15 making a claim that in their PER review they
16 kind of missed one, right?

17 MR. FARVER: No.

18 CHAIRMAN GRIFFON: No?

19 MR. FARVER: No.

20 MEMBER MUNN: I think one could
21 easily make the case that -- that the issue
22 should've been stated that the case should

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1 have included evaluation for exposure to Super
2 S rather than reevaluate it.

3 MR. HINNEFELD: Well, when the
4 case was done, Super S wasn't developed.

5 MR. FARVER: I believe that's
6 correct.

7 CHAIRMAN GRIFFON: There's already
8 over 50 --

9 MR. HINNEFELD: There was already
10 over 50, and so we wouldn't --

11 CHAIRMAN GRIFFON: Right. I just
12 wanted to be clear on that.

13 MR. FARVER: That is typically one
14 of the standard observations we'll put in the
15 Savannah River.

16 MR. HINNEFELD: Yes, and pretty
17 much all of them have it.

18 CHAIRMAN GRIFFON: Okay, 157.1?
19 Now, there's no NIOSH response.

20 MR. HINNEFELD: I don't think we
21 provided anything on that yet.

22 CHAIRMAN GRIFFON: Right. Do we

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1 want to move ahead? Are there other ones that
2 have - yes, there are.

3 MR. HINNEFELD: Yes.

4 CHAIRMAN GRIFFON: 157.1, 157.2, I
5 think you owe initial response on those. I
6 mean do you want to restate the finding, Doug,
7 so we're at least all on the same page? Might
8 be helpful to Brandt, especially.

9 MR. FARVER: On 157?

10 MEMBER MUNN: Point 1 and 2.

11 MR. FARVER: Oh, 1 and 2? We'll
12 do that.

13 CHAIRMAN GRIFFON: Seems like one
14 where you're going to have to have the data in
15 front of you --

16 MR. FARVER: Yes. I want to get
17 the right case number. Hang on a second.
18 Sorry, I lost my spot.

19 DR. ULSH: Page 20 if that helps.
20 Twenty out of 66.

21 MR. FARVER: Okay, well, what I'll
22 do is I'll pull up our case report.

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1 MR. SIEBERT: On the PDF, it's
2 page 39 of 245, Doug.

3 MR. FARVER: Thank you. After a
4 while, they all start looking alike.

5 MR. SIEBERT: Oh, I know.

6 MEMBER MUNN: Only after 3:00.

7 MR. FARVER: Okay, found it,
8 157.1, failure to properly account for
9 external photon dose for all years of
10 employment. I couldn't tell you offhand. I
11 mean I'd have to go back and then look at
12 this.

13 CHAIRMAN GRIFFON: Okay.

14 MR. FARVER: But it has to do with
15 those years they did account for, and then
16 there's years they didn't account for. We
17 believe there's years they should've accounted
18 for. And that's what it comes down to.

19 MR. SIEBERT: Right. It's the
20 counting of missed badges, and badges that are
21 in the record, and badges that are blank in
22 the record and things like that.

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1 MS. BEHLING: Also, I believe,
2 Doug, that there were some medical records
3 that we found for years when we -- he was
4 either a part-time employee at that point,
5 like in 1952, and we were curious as to that
6 he should've probably been monitored during
7 that period also.

8 So, there's several years of his
9 employment here that we're questioning.
10 Should he have been monitored during those
11 years?

12 MR. FARVER: Yes. Actually,
13 that's down at the 157.4, medical dose. But
14 yes. So, for 157.1, 157.2, those are still
15 open.

16 CHAIRMAN GRIFFON: Yes.

17 MR. FARVER: 157.3, failure to
18 provide or define the system assignment of
19 neutron dose, and -- oh, this goes to -- after
20 1970 neutron doses are assigned based on
21 neutron dosimetry. So, yes, we agree with
22 NIOSH's response.

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1 Well, what the findings was saying
2 is that just because -- after 1970, they
3 should've been assigned neutrons based on an
4 N/P ratio. But no, there is a document that
5 says, after 1970 for Savannah River, it's
6 based on neutron dosimetry.

7 CHAIRMAN GRIFFON: So, it's
8 consistent with all the other --

9 MR. FARVER: Yes.

10 CHAIRMAN GRIFFON: Okay, so SC&A
11 agrees with NIOSH?

12 MR. FARVER: Yes.

13 MR. KATZ: So, 157.4 is closed?

14 CHAIRMAN GRIFFON: Yes, closed.

15 MR. FARVER: 157.4 is where Kathy
16 mentioned about the medical exposure, and I
17 believe NIOSH agrees, but it doesn't affect
18 the compensability.

19 MR. SIEBERT: This was the year,
20 the changeover year, of 1970. And the
21 original assessment used the later version,
22 which would've been the later -- the post `70

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1 value, which would've been six millirem versus
2 the pre and `70 value, which would've been 100
3 millirem.

4 CHAIRMAN GRIFFON: Okay, so it
5 doesn't affect the --

6 MR. FARVER: It doesn't, but this
7 is --

8 CHAIRMAN GRIFFON: That's fine.

9 MR. FARVER: Well, it's -- it kind
10 of relates back to, should this have been
11 caught or not?

12 CHAIRMAN GRIFFON: Yes, but NIOSH
13 agrees with the finding, and it's closed for
14 our purposes.

15 MR. FARVER: Yes, it is.

16 CHAIRMAN GRIFFON: All right,
17 157.5?

18 MR. FARVER: Very similar, extract
19 the uncertainty value in the X-ray dose, and
20 it's also -- that's closed. We agree with
21 that and their response.

22 CHAIRMAN GRIFFON: And moving on?

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1 MR. FARVER: 157.6: this is
2 failure to account for internal dose from all
3 fission products. This is the ongoing fission
4 product issue, OTIB-0054.

5 CHAIRMAN GRIFFON: Right.

6 MR. FARVER: I think it's closed.

7 CHAIRMAN GRIFFON: Got it. Let's
8 transfer to --

9 MR. FARVER: And then the one
10 observation talks about the highly insoluble
11 plutonium, standard observation.

12 CHAIRMAN GRIFFON: So, NIOSH's
13 response on this observation this time says,
14 since it wasn't over 50, you expect the case
15 will be returned." Right?

16 MR. SIEBERT: Yes, I can look it
17 up real quick and determine if --

18 CHAIRMAN GRIFFON: Yes. Has it
19 been? I mean I'd like to -- it'd be nice to
20 know.

21 MR. SIEBERT: Let's see.
22 Considering we just turned in a version of

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1 this case 20 days ago, I'm going say it
2 includes Super S plutonium. So, yes, it has
3 been reworked.

4 DR. ULSH: Scott, are you saying
5 that you verified in fact that it did include
6 Super S plutonium, or are you just --

7 MR. SIEBERT: Well, based on the
8 fact that we did it 20 days ago, I'm sure it
9 did.

10 MR. HINNEFELD: What we'll do is
11 since we've asked for SC&A to submit a written
12 input, we'll provide written input on this.
13 We'll actually go verify it, see what's been
14 done.

15 CHAIRMAN GRIFFON: And we don't
16 know the PoC status after Super S was
17 incorporated. I mean I'm just wondering
18 because the -- we usually say it's not going
19 to contribute a lot, but did this bring it
20 real close? Or, what's the case? Do we know?

21 MR. HINNEFELD: Well, I mean we
22 need to figure it out.

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1 MR. SIEBERT: That's kind of hard
2 to say if that's not the only thing that
3 changed.

4 MR. HINNEFELD: Yes.

5 DR. MAURO: What is it now,
6 though? Is it 43.4? I mean 46.4.

7 MR. HINNEFELD: At the time it was
8 done, it was 46.4.

9 DR. MAURO: So, you didn't knock
10 it out of the park.

11 CHAIRMAN GRIFFON: Yes.

12 DR. MAURO: Was the internal dose
13 a dominant --

14 MR. FARVER: Yes. That was 41-42.

15 DR. MAURO: Out of the 42?

16 MR. FARVER: Out of 45.

17 DR. ULSH: Do you know what the
18 target was? I mean what kind of cancer.

19 MR. FARVER: Yes, pulmonary.

20 DR. ULSH: Lung cancer.

21 CHAIRMAN GRIFFON: All right, so,
22 we'll leave it at that for now. Okay, 159.1?

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1 MR. FARVER: 159 was your question
2 on DOE dose record, and this is another
3 Savannah River case, and it has to do with the
4 different dose records, previous ones. And in
5 NIOSH's response, they say they used the 3HP
6 EAH because it's claimant favorable.

7 And all we do is we point out the
8 different dose records in here in our report;
9 as long as they choose the one that's most
10 claimant favorable, that's okay.

11 CHAIRMAN GRIFFON: Okay, so it's
12 the same regulation as before.

13 MR. FARVER: Yes, we closed that
14 one.

15 CHAIRMAN GRIFFON: Closed, and
16 then --

17 MR. FARVER: The only comment I
18 have is have the records been compared for
19 accuracy? We've got different records with
20 different values. Have you looked at them?

21 CHAIRMAN GRIFFON: There was no
22 further action for this --

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1 MR. FARVER: No further action.

2 Same way with --

3 CHAIRMAN GRIFFON: We discuss that
4 in the Site Profile follow up.

5 MR. FARVER: 159.2 is the same,
6 same thing. That's the different dose
7 records. Sometimes there's different values,
8 different cycles. I'm okay with this. Just
9 make sure all of you understand the dose
10 records and which one C is.

11 CHAIRMAN GRIFFON: I see that as
12 slightly different than the other one, though.
13 But some of them are kind of --
14 interpretation of this --

15 MR. FARVER: Yes, this one has
16 counting up of cycles.

17 CHAIRMAN GRIFFON: Right.

18 MR. FARVER: Zeros. Cycles I
19 guess it is.

20 CHAIRMAN GRIFFON: But it's
21 closed.

22 DR. ULSH: So 159.1 and .2 are

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1 both closed for the same -- okay.

2 MR. FARVER: And if we go to
3 159.3, and 159.4, this has to do with the
4 Savannah River workbook error that we've
5 talked about in previous cases. That's been
6 corrected. So, 159.3 and 159.4 can be closed.

7 CHAIRMAN GRIFFON: Okay, 159.3 and
8 159.4 are both closed.

9 MR. FARVER: Yes.

10 CHAIRMAN GRIFFON: Okay. Who says
11 we don't make progress?

12 DR. ULSH: It's after 3:00. We're
13 making a lot of progress.

14 CHAIRMAN GRIFFON: 159.5?

15 MR. FARVER: 159.5: we thought
16 there was a missing 1989 neutron dose.
17 Apparently, it depends on which file you look
18 in. A lot of times these dosimetry files or
19 the DR files will have many different files,
20 and some of those are working files that were
21 used, or used to calculate certain portions.

22 And although it was not in the one

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1 file, it was used in the EDCW tool to
2 calculate the final dose. So, it was just --
3 it was there. It was just kind of hidden, and
4 then we didn't catch it. So, we agree with
5 their response.

6 CHAIRMAN GRIFFON: 159.6?

7 MR. FARVER: 159.6 showed a --
8 properly account for all missed neutron doses.

9 Really, this comes down to counting cycles in
10 the end, and NIOSH agrees whether it has a
11 relatively low impact.

12 DR. MAURO: Would this be a
13 quality issue going across these kinds of
14 things?

15 MR. FARVER: Normally, I would say
16 that, except there was discrepancy up above
17 about counting zeros, and for Savannah River,
18 I guess it's a little tougher because you've
19 got these different reports. So, it is a
20 matter of what report you're counting. But
21 yes, if it was some other site, I would
22 probably write this up as a qualify concern.

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1 MR. HINNEFELD: Was this a large
2 number of cycles and a fairly small
3 difference?

4 MR. SIEBERT: The difference
5 between eight and --

6 MR. HINNEFELD: Ten and eight.

7 MR. FARVER: Yes, two cycles.

8 MEMBER MUNN: Nothing spectacular.

9 MR. HINNEFELD: No, but it's
10 puzzling. If it were the difference between
11 298 and 296, I'd say that -- who cares?

12 DR. MAURO: Is that a quality
13 issue? That's not a quality issue.

14 MR. HINNEFELD: But eight and ten
15 is a countable number.

16 DR. MAURO: Right.

17 MR. FARVER: The only reason I let
18 this one go is because there's many different
19 records of Savannah River.

20 MR. HINNEFELD: Yes.

21 MR. FARVER: And unless you're
22 counting the same records, you might not get

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1 the same numbers.

2 MR. HINNEFELD: And granted, two
3 cycles of missed doses --

4 CHAIRMAN GRIFFON: Right, right,
5 right. And it doesn't have any -- I mean we
6 closed the finding. It doesn't necessarily
7 mean it goes as far a qualify finding.

8 DR. MAURO: I raised this question
9 because I know that --

10 CHAIRMAN GRIFFON: When we look at
11 these in aggregate, we might say, "Yes, this
12 is worth following up on."

13 DR. MAURO: I've seen a lot of
14 these DR audits, and they'll print out 300
15 pages, which who knows how many zeros on it.
16 Someone has to sit there and count zeros.
17 Now, is it a quality issue because one person
18 counts 200 zeros or 203 zeros? How many times
19 do you have to count the zeros to decide if
20 it's the right number? I have a hard time
21 calling that a quality issue.

22 MR. FARVER: No, I understand

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1 that. But we can -- we can close that one.
2 There's no further action.

3 CHAIRMAN GRIFFON: Yes.

4 MR. FARVER: And 159.7 goes back
5 to the fixing the work book for neutrons, just
6 like they did for photons. So, that's closed.

7 CHAIRMAN GRIFFON: All right. So,
8 this is the same TIB-54?

9 MR. FARVER: Well, 159.8 we will
10 get into --

11 CHAIRMAN GRIFFON: No, I was
12 reading -- I'm sorry. That's what I was
13 reading.

14 MR. FARVER: Yes, 159.8 is the
15 underestimating fission product dose.

16 CHAIRMAN GRIFFON: Right. All
17 right, 159.9?

18 MR. SIEBERT: Just to make sure I
19 didn't miss this, .8 was closed?

20 CHAIRMAN GRIFFON: Yes,
21 transferred.

22 MR. HINNEFELD: Transferred to

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1 Procedures.

2 MR. SIEBERT: Right, the OTIB-54.

3 Okay, thank you.

4 CHAIRMAN GRIFFON: Right.

5 MR. FARVER: 159.9: plutonium was
6 not included in any of the environmental dose
7 calculations. And the response says it was
8 included in the chronic missed dose. It was
9 not included in the environmental. Correct.
10 Well, they assessed it once. They didn't
11 assess it twice. Closed.

12 MR. HINNEFELD: Yes.

13 DR. MAURO: Let me ask, just for
14 my edification. The environmental doses is a
15 contributor, you're saying that by calculating
16 --

17 MR. FARVER: They calculated a
18 missed dose for plutonium. So, they don't
19 calculated an environment dose for --

20 DR. MAURO: Oh, you capture it
21 because of the missed dose.

22 MR. HINNEFELD: The missed dose is

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1 based no the bioassay. And so, if they had
2 any environmental --

3 DR. MAURO: Yes, got it. Got it.
4 Thank you.

5 CHAIRMAN GRIFFON: And then the
6 Super S question, right? And this is being
7 reassessed apparently.

8 DR. ULSH: Observation 159 then?

9 MR. HINNEFELD: Yes.

10 MR. SIEBERT: Yes. This one was
11 reassessed just about six months ago. So,
12 we'll also respond there.

13 DR. ULSH: So, it's the same thing
14 that we're going to supply written
15 documentation --

16 MR. HINNEFELD: Yes.

17 DR. ULSH: Okay, got you.

18 MR. FARVER: Move onto 160.1: DR
19 reports do not properly account for all
20 reported proton dose. They said they first
21 received a couple hundred millirem from 1952,
22 and it was not included in the IREP data. Saw

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1 those missing years. And so, this one really
2 -- this would be a QA concern.

3 MR. HINNEFELD: Yes.

4 MR. FARVER: How could that hear
5 not be accounted for. I don't know how we're
6 going to fix it. It's just something that
7 would just fall under your category of
8 quality.

9 CHAIRMAN GRIFFON: Right.

10 MR. FARVER: But we could close
11 the findings.

12 CHAIRMAN GRIFFON: Yes, it's
13 closed. That one is a more clear quality
14 assurance, I think.

15 MEMBER MUNN: Probably a simple
16 matter of waiting for something. Going away
17 for 15 minutes, and coming back and taking --

18 MR. FARVER: Well, the QA check
19 should have caught that.

20 CHAIRMAN GRIFFON: Right.

21 MR. FARVER: 160.2 is similar for
22 neutron dose, 1952. Because the 1952 is

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1 missing the neutron dose, based on an N/P
2 ratio was missing. Makes sense.

3 DR. ULSH: So same thing as 160.1
4 and we substitute neutron?

5 MR. FARVER: Yes. Closed. 160.3
6 has the fission product issue that keeps
7 coming up. So, we will refer that to Wanda.

8 DR. MAURO: I got a question. I
9 don't want to slow -- it's getting late. But
10 okay, let's say we find out that we missed a
11 year, and the year includes both the photon
12 and because of neutron/photon ratio, we missed
13 the neutron. So, therefore the dose has been
14 underestimated. These are numeric issues.
15 It's not a procedural issue.

16 It's an issue unique to this case,
17 and would not be picked up on a PER. Do we
18 know that -- so what do you do? Do you redo
19 this guy's case because you missed some doses?
20 Is that what happens?

21 MR. HINNEFELD: Well, I mean we
22 won't send a new dose reconstruction.

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1 DR. MAURO: Well, what do you do
2 when -- now you know this guy might have been
3 underestimated.

4 MR. HINNEFELD: What we would do
5 is we would -- if it's close -- I mean this is
6 200 millirem of photon and probably something
7 less than that for neutron. Most of our N/P
8 ratios are less than one. So, I mean that
9 almost doesn't --

10 DR. MAURO: Okay, in other words,
11 the tracking of closure. What I'm getting at
12 is that -- maybe we haven't had this
13 conversation before. If there's no way to
14 document that, "Yes, we did find there was
15 some quality issues that did result in some
16 degree of underestimate of the dose, and the
17 documented that we looked at it and confirmed
18 that it does not change the conclusion in
19 terms of compensation."

20 CHAIRMAN GRIFFON: But we've had
21 this discussion before.

22 DR. MAURO: We did? Then I forgot

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1 about it.

2 CHAIRMAN GRIFFON: That oversight
3 is in case -- set five was it? Remember when
4 you reworked several --

5 MR. HINNEFELD: Yes, we reworked
6 several. They were close.

7 DR. MAURO: What is the venue --

8 MR. HINNEFELD: It's kind of a
9 judgment in the group.

10 DR. MAURO: But where does it --
11 does a record show that we put this one --
12 that this issue has been addressed, put to
13 bed, and the claimant in fact was given
14 appropriate consideration? Where is that? It
15 seems to be something important. We've got --
16 there's a record that -- that this person,
17 "Yes, you're right. We did underestimate. We
18 looked at the degrees on the estimate.
19 Certainly not anywhere near enough to change
20 the convert." And then you put a period at
21 the end of the sentence. It seems to me that
22 we'd sit around a table and agree to that.

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1 MR. HINNEFELD: Yes.

2 DR. MAURO: Because it's
3 intuitively obviously to us. But is this
4 something that needs to be put on a record?

5 MR. HINNEFELD: Well, there's --
6 if following that school of thought, John,
7 there's something to be said for publishing a
8 final matrix. You know, after all the
9 discussions are done, we've come to agreement
10 and closure.

11 DR. MAURO: Oh, that's the trick.

12 MR. HINNEFELD: And having a final
13 matrix as, "The record."

14 DR. MAURO: Yes.

15 MR. HINNEFELD: Now, before that
16 goes to -- we have to think about going
17 public. It would certainly have to be
18 reviewed for Privacy Act because we're not as
19 careful on these as we are in some others, and
20 especially as we include more and more
21 information about the case, we can get into
22 Privacy Act considerations.

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1 CHAIRMAN GRIFFON: Haven't we
2 already published a lot of matrices?

3 MR. HINNEFELD: I'd be hard
4 pressed to find the five things we call the
5 final matrices for the first five plants.

6 CHAIRMAN GRIFFON: Well, they went
7 to the Secretary.

8 MR. HINNEFELD: Well, there were
9 reports to the Secretary.

10 CHAIRMAN GRIFFON: With those as
11 attachments.

12 MR. HINNEFELD: Those are
13 attachments. Okay, so, then those would be --
14 those were the -- the matrices were
15 attachments to the report to the Secretary,
16 then I would say that would be the published -
17 -

18 CHAIRMAN GRIFFON: That's the
19 public record.

20 MR. HINNEFELD: That's the public
21 record. And so, the public record of this
22 matrix --

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1 DR. MAURO: So, the matrix and the
2 transcript represents the documentation?

3 MS. HOWELL: Not really.

4 MR. HINNEFELD: No.

5 MS. HOWELL: Not unless the new
6 one is posted on the website. But the
7 Secretary can do whatever. So, you would send
8 something unredacted to the Secretary.

9 MR. HINNEFELD: Yes, right.

10 MS. HOWELL: It would only have
11 been reviewed for privacy matters if it has
12 been posted on the website.

13 MR. HINNEFELD: So, what we have
14 now is a record that's not public. The
15 official, to me -- we have an official, final
16 matrix, and this is missing a -- and there's
17 an argument to be made, and maybe we haven't
18 even really talked about this, but from DCAS
19 standpoint, there's an argument to be made to
20 put these out there in public because the
21 reviews are public. The initial reviews are
22 on our --

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1 DR. MAURO: The transcripts.

2 MR. HINNEFELD: Well, and your
3 reports. Those are public, and those are on
4 the website, and they all say drafts, and
5 there are disclaimers on there. But they're
6 all drafts. And so, if anybody asks, "Well,
7 what's the final outcome of this?" The final
8 outcome of this is the final matrix, which
9 summarizes these discussions we've had.

10 DR. MAURO: We have had this
11 conversation before. You're right.

12 MR. HINNEFELD: And so, when they
13 are published, and whether it's a letter to
14 the Secretary or something, that's an argument
15 for us, saying that we should do a privacy
16 redaction on these things, and put them up
17 there as -- really as part of your report to
18 them. We don't have to write anything else.

19 Your report then to the Secretary
20 then can become public on the website. And
21 so, when someone asks, "What's the outcome of
22 these -- from these drafts?"

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1 that. Yes, I think that certainly they should
2 be there.

3 CHAIRMAN GRIFFON: Yes, it's a
4 good question. Just doing a final report to
5 the Secretary doesn't necessarily mean it's
6 been dispersed to the public.

7 DR. MAURO: We did have this
8 conversation already in the context of Site
9 Profile reviews.

10 CHAIRMAN GRIFFON: Yes.

11 DR. MAURO: And the question was
12 SC&A, after you go through it and have your
13 Site Profile review, you go through the issues
14 resolution. Do you reissue a final version of
15 your Site Profile manage? The answer is no,
16 and the reason is because the record of the
17 Work Group meeting, and how the issues were
18 resolved, whether that's Procedures or Site
19 Profile, constitutes the -- the process and
20 the record of how issues are resolved.

21 Because that -- otherwise, the
22 costs would be astronomical to redo a Site

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1 Profile. So, I just had to be reminded.

2 CHAIRMAN GRIFFON: Okay, but the
3 other part of your question I think was
4 important, which is how do we -- I mean in the
5 matrices, assuming we clear those first five
6 or whatever, or we -- we release multiple, in
7 the final resolution column, we often say,
8 "Does not affect the case." You know, no
9 effect on the case. And we do often -- but I
10 think we make a pretty -- I know sometimes we
11 review it quicker, but I'm assuming when we do
12 this here, that SC&A has looked pretty closely
13 at it, and NIOSH has.

14 Any time I think Stu has been
15 involved in this, like we've had somewhere
16 where pretty close to more like --

17 MR. HINNEFELD: Certainly if
18 they're close. I mean there are some --

19 CHAIRMAN GRIFFON: This has the
20 potential to overturn, and we ask you to look
21 --

22 MR. HINNEFELD: I mean, like a 100

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1 millirem increase in a dose -- I mean it's
2 intuitive, that won't change the outcome.

3 CHAIRMAN GRIFFON: Yes.

4 MR. HINNEFELD: That's intuitive.

5 So, we may not do --

6 CHAIRMAN GRIFFON: But I mean I
7 think it's a waste of research to require
8 NIOSH to, just for the record, reconstruct a
9 dose.

10 DR. MAURO: No, that's a good
11 point. I just wanted to make sure --

12 CHAIRMAN GRIFFON: We haven't done
13 that in the past is all I'm saying.

14 DR. MAURO: Yes, this is good.

15 DR. ULSH: Okay, but since I
16 haven't been around for those three previous
17 discussions, here's my concern with a
18 combination of what John said and what Stu
19 said: We look at these things right now and
20 they are minor because -- I think you said 30
21 percent and that is not a big deal.

22 There's -- that doesn't

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1 necessarily ensure that some issue doesn't
2 come up down the road, where we're going to
3 pick this case up again. And unless we have
4 some notation in that case file that, "Yes,
5 there's an issue here that if you ever open
6 this again and redo it, you should take this
7 into account."

8 CHAIRMAN GRIFFON: Well, I'm
9 assuming that you've flagged -- any cases that
10 are being reviewed, you flag. And if they
11 come up again --

12 MR. HINNEFELD: That's for us to
13 figure out.

14 CHAIRMAN GRIFFON: That's a good
15 point, but that's an internal thing. Yes, I
16 agree, because you've got to keep track of
17 these. I agree. You're right.

18 MS. BEHLING: Mark, I guess
19 another question I could have that just came
20 to mind as we were going through these is I
21 assume if we go back to Finding 160.1, and we
22 look at just that specific issue in this 200

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1 millirem we're talking about, and NIOSH's
2 response is that, "Okay, this will not affect
3 the compensability decision," I assume they've
4 looked at all of the findings associated with
5 160 --

6 CHAIRMAN GRIFFON: Right.

7 MS. BEHLING: -- for just this
8 particular issue.

9 CHAIRMAN GRIFFON: And I think
10 that's where we're making the judgment too
11 here on the subcommittee level. Like if --
12 and well, we just said that before when we had
13 the fission product one come up, and then
14 finding later we had another internal dose
15 issue.

16 MS. BEHLING: Exactly. And so --

17 CHAIRMAN GRIFFON: It's sort of
18 these things in aggregate, obviously.

19 MS. BEHLING: Right, and that's
20 what I wanted to ensure is happening.

21 CHAIRMAN GRIFFON: So, whenever we
22 have doubt I think we want to stop, pause and

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1 if need be, ask NIOSH to show us some numbers.

2 MS. BEHLING: Okay, because we're
3 on the first finding, and if they've just
4 reassessed it based on that one finding,
5 obviously we're going to go onto 2 and 3 and
6 have additional findings that may impact this
7 case, and that is looked at in aggregate.
8 Yes, that was my only question.

9 CHAIRMAN GRIFFON: Right, right,
10 right. So, was that a general question, Kathy,
11 or specific to case 160?

12 MS. BEHLING: Well --

13 CHAIRMAN GRIFFON: I mean do you
14 know something that I don't know about? This
15 case, is it close, or?

16 MS. BEHLING: It's very close.

17 CHAIRMAN GRIFFON: Okay, I got you.

18 MS. BEHLING: This case is almost
19 49 percent. It's 48.7 percent. Now, it's --
20 I believe it's a prostate cancer, but it's
21 close.

22 CHAIRMAN GRIFFON: Okay.

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1 MS. BEHLING: The only thing that,
2 in this particular case, I am questioning
3 under finding 160.2 is it looks as if this has
4 been returned to be reworked.

5 CHAIRMAN GRIFFON: Right, yes. In
6 the bottom of your NIOSH response, it says,
7 "Claim has been returned for rework using
8 current methods."

9 MR. SIEBERT: This claim is
10 presently in our pool to be worked.

11 CHAIRMAN GRIFFON: So, for this
12 particular one, I'm going to put, instead of
13 no effect on the case, I'm going to say it's
14 currently being reworked. I think that's
15 better. I'm glad we had this discussion.

16 DR. MAURO: And as Brant correctly
17 points out, when it's being reworked, for the
18 reasons its being reworked is neutron, it's
19 probably important that we don't forget about
20 the year that may have been missed on protons
21 ever.

22 CHAIRMAN GRIFFON: Well, and the

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1 policy is when you rework your case, you work
2 it across the board, right?

3 DR. MAURO: Yes, but I don't know
4 if that necessarily means that --

5 CHAIRMAN GRIFFON: I know.

6 DR. MAURO: -- everyone goes back
7 to this matrix and takes a look at sort of the
8 findings. So, yes.

9 CHAIRMAN GRIFFON: But I'm saying
10 that's something they -- that's something that
11 NIOSH has to keep an eye on. Right?

12 DR. MAURO: Yes.

13 MEMBER MUNN: Well, it might not
14 have gone back to the matrix, but surely it
15 would include your original findings sheet.

16 DR. MAURO: Yes, if you go back to
17 that. I guess that's what I'm getting at. I
18 can see when you're in the PER process, for
19 example, and you turn in the machinery to deal
20 with it, and you go back to all the issues
21 that are at play. Some of the issues that are
22 at play are built into the record of our

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1 matrix for this Work Group, for this
2 Subcommittee. The degree to which you folks
3 incorporate that into your process is a
4 question, I guess.

5 MEMBER MUNN: Your findings sheet
6 would have everything --

7 DR. MAURO: The findings would be
8 there if they were looked at.

9 MEMBER MUNN: Yes.

10 DR. MAURO: I got to say, I'll be
11 first to acknowledge that I noticed that when
12 Site Profiles are being revisited every couple
13 of years. The folks that do the Site Profiles
14 don't always look at our Site Profile Reviews
15 when they're in the process of reviewing. So,
16 one of the things I guess I have a concern
17 about is that there's a process going on with
18 the Board here, where there's a lot of
19 interaction with SC&A, the Board and the Work
20 Groups, to the degree to which that actually
21 makes it into the machinery.

22 CHAIRMAN GRIFFON: Yes, I got you.

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1 I see your point. We've all -- Stu is taking
2 notes. Okay, I think we're going to call it a
3 day.

4 MR. FARVER: Oh, you should do one
5 more.

6 DR. MAURO: We're closing 160 out.
7 Great.

8 CHAIRMAN GRIFFON: I'm close to
9 catching a flight here. You really wanted to
10 do one more? You were on a roll?

11 MR. FARVER: No, there is one more
12 in 160.

13 MEMBER MUNN: 160.4.

14 CHAIRMAN GRIFFON: Go ahead. Do
15 160.4.

16 MR. FARVER: Okay, the dose report
17 does not account for internal doses from the
18 uranium. The employee submitted ten uranium
19 bioassays. The DR report says, "Uranium as
20 discussed below," but it doesn't discuss it,
21 and there are no calculations for it.

22 So, they don't calculate a dose.

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1 They don't include a dose. And so, this also
2 has an affect on the PoC, and it's also the
3 key reg concern. And they say it does not
4 affect compensability. But if we go back and
5 consider all these findings in total, do they?

6 I don't know.

7 MR. HINNEFELD: Okay, well, at the
8 very least --

9 CHAIRMAN GRIFFON: Yes, okay.

10 MR. HINNEFELD: We need to check
11 this out.

12 CHAIRMAN GRIFFON: All right,
13 that's a wrap. Thank you all. Thank you all
14 on the phone for sticking it out today. And
15 we made some good headway.

16 I will send the final preliminary
17 follow up report, that First 100 Case Report,
18 out to all of us, and actually, I think I can
19 forward it to all of the Board for discussion.

20 At least I'll raise it in the Work Group
21 updates on the phone call meeting, and then
22 we'll have a further discussion at the full

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1 Board meeting, and focus on set seven for the
2 next set of priorities.

3 MR. SIEBERT: Hey, Mark, this is
4 Scott.

5 CHAIRMAN GRIFFON: Yes?

6 MR. SIEBERT: Could you also send
7 out the updates you just made to the eighth
8 matrix?

9 CHAIRMAN GRIFFON: I will. I will.

10 MR. SIEBERT: That would be very
11 helpful. And the seventh, I guess, would be
12 good, too.

13 CHAIRMAN GRIFFON: Yes.

14 MR. KATZ: So set seven and
15 continue with eight right?

16 MR. SIEBERT: Thank you.

17 CHAIRMAN GRIFFON: Okay. Thanks a
18 lot, everybody.

19 MR. KATZ: We're adjourned. Thank
20 you everyone on the line.

21 (Whereupon, the above-entitled
22 matter went off the record at 3:57 p.m.)

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