

NATIONAL INSTITUTE FOR OCCUPATIONAL
SAFETY AND HEALTH

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OFFICE OF COMPENSATION ANALYSIS AND SUPPORT

+ + + + +

SUBCOMMITTEE FOR DOSE RECONSTRUCTION REVIEWS

+ + + + +

MONDAY,
DECEMBER 8, 2008

+ + + + +

The Subcommittee convened at 9:30 a.m.
in the Zurich Room of the Cincinnati Airport
Marriott Hotel, Michael Griffon, Subcommittee
Chair, presiding.

MEMBERS PRESENT:

MARK GRIFFON, Chair
BRADLEY P. CLAWSON
MICHAEL H. GIBSON
WANDA I. MUNN

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ALSO PRESENT:

KATHY BEHLING, SC&A*
LARRY ELLIOTT, OCAS*
DOUG FARVER, SC&A
ZEDA E. HOMOKI-TITUS, HHS*
STUART HINNEFELD, OCAS
EMILY HOWELL, HHS
TED KATZ, Designated Federal Official
JOHN MAURO, SC&A
SCOTT SIEBERT, ORAU

*Participating via telephone

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

2 9:38 a.m.

3 MR. KATZ: Good morning. This is
4 Ted Katz. I'm the Acting Designated Federal
5 Official for the Subcommittee on Dose
6 Reconstruction Review of the Advisory Board on
7 Radiation Worker Health and we are about to
8 get started with roll call. We will start in
9 the room with Board Members beginning with the
10 Chair.

11 CHAIR GRIFFON: Mark Griffon,
12 Board Member, Chair of the Subcommittee.

13 MEMBER CLAWSON: Brad Clawson,
14 Member of the Advisory Board.

15 MEMBER MUNN: Wanda Munn, Board
16 Member.

17 MEMBER GIBSON: Mike Gibson, Board
18 Member.

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

20 MR. KATZ: No, wait, wait. Board
21 Members first. So on the telephone do we have
22 Board Members on the telephone? Dr. Poston?

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1 And Mr. Presley? Okay. Now, going around the
2 room, NIOSH ORAU Team?

3 MR. HINNEFELD: Stu Hinnefeld,
4 Technical Program Manager for the OCAS.

5 MR. SIEBERT: Scott Siebert, ORAU
6 Team.

7 MR. KATZ: And on the telephone,
8 NIOSH ORAU?

9 MR. ELLIOTT: Larry Elliott,
10 Director of OCAS.

11 MR. KATZ: Welcome, Larry. Okay,
12 then SC&A in the room?

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

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

15 MR. KATZ: And on the telephone?

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

17 MR. KATZ: Welcome, Kathy. And
18 now, HHS?

19 MS. HOWELL: Emily Howell.

20 MR. KATZ: Or other Government?

21 MS. HOWELL: HHS.

22 MR. KATZ: And on the telephone?

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1 MS. HOMOKI-TITUS: Liz Homoki-
2 Titus, HHS.

3 MR. KATZ: Welcome, Liz.

4 MS. HOMOKI-TITUS: Thanks.

5 MR. KATZ: That sounds like that's
6 it. And then is there anyone else from the
7 public or the congressional office on the
8 telephone? Okay. And then just -- I'll
9 remind everyone, please, mute, star 6, when
10 you are not speaking on the telephone and,
11 please, do not put us on hold, but call back
12 in, instead. And, Mark, it's all yours.

13 CHAIR GRIFFON: All right. I
14 think the agenda today is pretty similar to
15 past agendas. I think we are going to cover
16 the sixth set of cases and I don't think we
17 have many outstanding items on the sixth set.

18 The seventh set of cases we have taken one
19 run through there, but we need to revisit many
20 of the items in there, I think. And then the
21 eighth set, we have not had any discussion of
22 those. We have got NIOSH=s -B for the most

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1 part, almost all your comments --

2 MR. HINNEFELD: I think most of
3 them, yes. I think there is one procedure
4 that might be important to respond to.

5 CHAIR GRIFFON: And at the end,
6 the --

7 MR. HINNEFELD: And then the
8 things at the back.

9 CHAIR GRIFFON: Right.

10 MR. HINNEFELD: Like profile
11 reviews.

12 CHAIR GRIFFON: Like profile
13 reviews, yes, having to adjust those, right.
14 So we'll start with those. The other item on
15 the agenda is this summary letter of the first
16 100 cases that I sent out a revision of that.

17 I did slightly modify some of the language in
18 it, so we can maybe have a discussion on that.

19 If it looks like we are running
20 low on time, I might want to move that up on
21 the agenda after lunch, so we get that in,
22 because that may, you know, finish that. That

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1 would be good to bring to the Board in two
2 weeks.

3 MR. HINNEFELD: Yes.

4 CHAIR GRIFFON: So starting on the
5 sixth set of cases. Maybe we can just run
6 through and people, collectively, our memories
7 can tell us where we stand on these findings.

8 102, do we have any outstanding findings on
9 102? We have got all --

10 MEMBER MUNN: Before we get --

11 CHAIR GRIFFON: Yes?

12 MEMBER MUNN: -- very far into
13 that, Mark, may I ask is there a later version
14 of the matrix than the August version?

15 CHAIR GRIFFON: Yes, created by
16 OCAS August 20th, is the latest version I have.

17 MEMBER MUNN: Right. The one I
18 have --

19 CHAIR GRIFFON: Right.

20 MEMBER MUNN: -- in the record.

21 CHAIR GRIFFON: And a lot of
22 those, as I said, a lot of my hand markings in

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1 the final two columns, the resolution and the
2 program action are on my hard copy. And I
3 have not yet added those on, but hopefully if
4 we close all this out, I will do that after
5 this meeting and circulate it. Okay.

6 So 103, is there anything in 103?

7 I have a note that says, consider and prompt
8 review TIB-18 and TIB-33, on the TIB-18/TIB-33
9 finding.

10 MEMBER MUNN: Which item?

11 CHAIR GRIFFON: I am looking at
12 103.1.

13 MEMBER MUNN: One?

14 CHAIR GRIFFON: Yes.

15 DR. MAURO: Generic issues related
16 to 18 and 33.

17 CHAIR GRIFFON: Yes.

18 MEMBER MUNN: I believe we've got
19 them.

20 DR. MAURO: Yes.

21 MEMBER MUNN: And procedures.

22 CHAIR GRIFFON: And then, the

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1 question I have always then is that when we --
2 even if we resolve it in procedures, the
3 application of a procedure to a case is
4 different than reviewing the procedure itself.

5 MEMBER MUNN: It is.

6 CHAIR GRIFFON: So how does it
7 come back here, you know? How do we -- I
8 mean, we're saying we're deferring it to the
9 Procedures Group, but again, it's this
10 question of not losing it.

11 MEMBER MUNN: Well, then the real
12 question is should the program actions be
13 transferred with the assumption that this will
14 be incorporated or do we need to establish
15 something like we use in the Procedures Group
16 where there is a list of open items?

17 CHAIR GRIFFON: Yes, like in
18 abeyance or --

19 MEMBER MUNN: A punch list or
20 something.

21 CHAIR GRIFFON: Yes.

22 MEMBER MUNN: Yes.

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1 CHAIR GRIFFON: I mean, I think it
2 almost has to be that it is anything that we
3 transfer, we have to then wait and see what
4 happens in the Procedures Group and pending
5 that, we'll have to come back and revisit this
6 one, right?

7 MEMBER MUNN: Right.

8 CHAIR GRIFFON: So --

9 MEMBER MUNN: There is a feedback
10 loop that we haven't finished here.

11 CHAIR GRIFFON: I know.

12 MR. HINNEFELD: There might be
13 automated processes in place that this gets
14 taken care of and you may want, rather than to
15 track every one of these or keep track of
16 which ones they are, but samples, to see that
17 the resolution is what you would expect.

18 CHAIR GRIFFON: In other words, if
19 you are allotted --

20 MR. HINNEFELD: Here is what I'm
21 going to say, because the finding is -- since
22 it was -- I don't recall it real well, but

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1 since it was transferred to the Procedures
2 Work Group, I would believe the finding
3 related to structure of TIB-18 -- what does
4 TIB-18 tell people to do?

5 MEMBER MUNN: Right.

6 MR. HINNEFELD: And so if, in
7 fact, TIB-18 is then modified because of the
8 review of TIB-18, and that modification would
9 require that -- would mean that cases done in
10 this fashion did not receive sufficiently high
11 doses, you know, in that circumstance. Those
12 cases then would have to be reconsidered and
13 reevaluated in an PER process. And so that
14 process then should receive and close that
15 whole business.

16 CHAIR GRIFFON: Actually, I think
17 I can answer that one.

18 DR. MAURO: TIB-18 is more -- I
19 believe it is a little bit more complicated.
20 On the TIB-18, there is the default MPC
21 approach. In other words, basically what is
22 being said is, listen, after a certain date,

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1 all DOE facilities are following DOE Order 54.

2 And I think TIB-18 was the MPC concept.

3 CHAIR GRIFFON: Okay.

4 DR. MAURO: If I remember
5 correctly. And then OTIB-33 was the
6 adjustment factors. Well, you may not be at
7 100 percent.

8 CHAIR GRIFFON: Yes.

9 DR. MAURO: And there were some
10 fundamental issues that went toward that that
11 said well, listen, is that really appropriate?
12 To universally, just automatically just say
13 oh, okay, well, this facility falls on the
14 TIB-18. We could feel a degree of confidence
15 that if it had a good health physics program -
16 -

17 CHAIR GRIFFON: Well, and that's
18 the key.

19 MEMBER MUNN: Yes.

20 CHAIR GRIFFON: There is the
21 baseline assumption that they had a rigorous
22 air monitoring.

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1 DR. MAURO: Right. Now, this is
2 where I think TIB-18, as a generic procedure,
3 is a really important procedure to review,
4 because it really adopts a universal that, in
5 effect, solves all problems. You know, you
6 say well, if you know you had a good air
7 sampling program, you could feel confident
8 that would be preconceived doses.

9 CHAIR GRIFFON: Right, right.

10 DR. MAURO: Now, I think on one
11 level that will be resolved during the
12 procedures. But then when you apply that to a
13 particular case, you say, okay, now we have a
14 real case that adopted it. Then you have to
15 ask yourself the question well, in this
16 particular case, let's say they decide to go
17 in one half MPC with certain default
18 radionuclides as being the universal for the
19 internal for this case.

20 I think that then you are actually
21 implementing TIB-18. Let's say we decide it
22 is okay, but now you are implementing it for

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1 this case. And then the question becomes, did
2 we implement it in this case in a way that is
3 claimant-favorable for this case? So I could
4 very well see this as being a very good
5 example of the two-step process.

6 You know, why you would first try
7 to say, listen, are we comfortable with the
8 fundamental strategy that is being used? And
9 then once you are comfortable with it, has it
10 been implemented in a way, for this case, that
11 everybody is comfortable?

12 CHAIR GRIFFON: In general, I
13 agree with you, John. In this case, I think
14 we closed it out, because it is a compensable
15 plan.

16 DR. MAURO: Oh, okay.

17 CHAIR GRIFFON: And I just thought
18 I would note it. So it's a compensable one
19 and the real question or issue that came up in
20 our discussions was why was TIB-18 used for a
21 compensable plan and was not, you know, in
22 fact, early on used that way?

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1 MR. HINNEFELD: It was, in fact,
2 part of that same direction to our contractor
3 when we told him to use TIB-4 for the
4 compensable plan.

5 CHAIR GRIFFON: Right.

6 MR. HINNEFELD: As part of that
7 same --

8 DR. MAURO: Yes, we have a number
9 of places where this recurs. That is, we see
10 TIB-4 or see TIB-18 used for the purpose of
11 compensation.

12 CHAIR GRIFFON: Right, right.

13 DR. MAURO: I have to say I'm
14 still not quite sure, because I just did a
15 TIB-4 and I'm not quite sure what the position
16 is, whether or not you can use it for the
17 purpose of --

18 MR. HINNEFELD: Not as it is
19 written now.

20 DR. MAURO: Okay.

21 MR. HINNEFELD: No. In fact, our
22 position, in fact, is so much of the debate

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1 now at certain sites where we don't have much
2 information, but they were uranium sites.
3 What you can do to reconstruct the dose and
4 can you use TIB-4? And so there are actually
5 other approaches now. TIB-4 is obsolete.

6 DR. MAURO: You go to --

7 MR. HINNEFELD: TIB-6000.

8 DR. MAURO: 6,000.

9 MR. HINNEFELD: Which is really
10 what should be done.

11 DR. MAURO: Yes.

12 CHAIR GRIFFON: Right, right.

13 MR. HINNEFELD: So it's not, in my
14 understanding, being used.

15 DR. MAURO: So when we do see
16 compensation on a TIB-4, we should alert you
17 to that? Because that's what I just did
18 recently on a very --

19 CHAIR GRIFFON: If it is a newer
20 case, it depends.

21 DR. MAURO: Well, now --

22 MR. HINNEFELD: That too, yes.

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1 DR. MAURO: -- it was going back a
2 ways.

3 MR. HINNEFELD: See and it could
4 have been during that one period of time.

5 CHAIR GRIFFON: Right.

6 DR. MAURO: Right.

7 CHAIR GRIFFON: Okay. But in
8 general, John, I think you are right about
9 TIB-18, but not for this case.

10 MR. HINNEFELD: So I --

11 CHAIR GRIFFON: I would close this
12 out.

13 MR. HINNEFELD: I think this one
14 can be closed, but then I think what your --
15 your concern though is about cases that are
16 referred to another work group.

17 CHAIR GRIFFON: Right.

18 MR. HINNEFELD: And how you --
19 what do you do with those?

20 CHAIR GRIFFON: Well, there are
21 issues that are referred and --

22 MR. HINNEFELD: Yes. And so the

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1 issue underlying those findings --

2 CHAIR GRIFFON: Yes.

3 MR. HINNEFELD: -- was referred to
4 that work group. So what happens to this case
5 and it sounds like, at the very least, you
6 would want to keep track of it.

7 CHAIR GRIFFON: Yes.

8 MR. HINNEFELD: And whether you
9 decide to verify every single one or whether
10 you try the sampling.

11 CHAIR GRIFFON: We can discuss
12 that.

13 MR. HINNEFELD: Yes, okay.

14 CHAIR GRIFFON: And you know what
15 I'll do is I might have to renew that
16 discussion with SC&A about taking the same
17 kind of database and using it for all this
18 stuff. I mean, we talked about it initially
19 with Kathy.

20 DR. MAURO: But I can check with
21 Kathy with all of these data.

22 CHAIR GRIFFON: I actually did it

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1 in a very primitive form. I imported all the
2 Excel spreadsheets into the Access Database
3 just for my own purposes, but in a very
4 primitive way. It doesn't have all the bells
5 and whistles that he put in.

6 DR. MAURO: Well, Doug, are all
7 the data now loaded into this Access kind of
8 arrangement for test, do you know?

9 MR. FARVER: I do not know.

10 DR. MAURO: Kathy, are you on the
11 line?

12 MS. BEHLING: Yes, I am, John.
13 And no, the database has been pretty much
14 completed and it is out on the O: drive, but,
15 at this point, we have not had the time. We
16 haven't loaded that data yet. In fact, we
17 still really need for the Subcommittee, for
18 Mark and the Subcommittee, to look over the
19 database and decide if this is the way they
20 want it to look. So we haven't gone --

21 CHAIR GRIFFON: Do you have a beta
22 version of the database for DR review?

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1 MS. BEHLING: Yes, we do. And it
2 is loaded on the O: drive.

3 CHAIR GRIFFON: Okay. I haven't
4 seen it.

5 MS. BEHLING: Yes.

6 CHAIR GRIFFON: Nobody alerted me
7 to that, yes.

8 MS. BEHLING: Okay.

9 CHAIR GRIFFON: Okay. That's
10 okay.

11 MS. BEHLING: I apologize, yes.
12 Don just recently has loaded that out and it's
13 in the same location as a separate database,
14 so as the procedures.

15 CHAIR GRIFFON: Procedures, okay,
16 okay.

17 MS. BEHLING: Yes, it does exist.
18 I just have not -- we have not loaded it yet.

19 CHAIR GRIFFON: Well, I'll ask --
20 I will work with you guys. I think I would
21 like to do that off-line, though.

22 MS. BEHLING: Yes.

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1 CHAIR GRIFFON: But if any members
2 of the Subcommittee look on -- you know,
3 review that and if you have any comments on
4 how it is going to -- how it is structured,
5 send them to me and I can work with Kathy and
6 we can get a -- you know, if we need to tweak
7 it at all, we will do that.

8 DR. MAURO: Well, one of my --

9 CHAIR GRIFFON: And then maybe in
10 the, you know, meetings going forward, we can
11 start to work from that.

12 DR. MAURO: You know, one of my
13 experiences, Kathy, I'm not sure if it will
14 apply here also, is in terms of, you know, the
15 organizational structure of the database, the
16 fundamental framework and the information it
17 contains, you take it as far as you can in
18 principle. And then what happens is you say,
19 okay, now it's loaded. We do this on
20 procedures.

21 And once you start to load it, and
22 once you start to use it, it's only then that

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1 it comes to life.

2 CHAIR GRIFFON: Yes, that's right.

3 DR. MAURO: So I don't think we
4 should expect that we're going to have all our
5 problems solved --

6 CHAIR GRIFFON: No, no.

7 DR. MAURO: -- because we have
8 loaded. It's one you start. In my opinion,
9 the sooner you start loading the database, the
10 sooner you're going to get it done and get,
11 not all the nots, it's going to take a little
12 -- it's always a little bumpy, but eventually
13 you get there. I can tell you right now, I'm
14 very pleased the way things have ended up on
15 procedures. They are coming in very handy for
16 me.

17 CHAIR GRIFFON: Yes, but I don't
18 want to have Kathy waste a lot of time loading
19 O: matrices, either, because I notes here.
20 You know, I want to update what I have and
21 then they can load the latest information.

22 DR. MAURO: Yes. If it turns out

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1 it makes more sense, especially you close --
2 let's say you're done with the first 100
3 cases, you know --

4 CHAIR GRIFFON: Right.

5 DR. MAURO: -- why even bother?

6 CHAIR GRIFFON: Right.

7 DR. MAURO: It's sticking up --

8 CHAIR GRIFFON: Well, unless we
9 want it for archival purposes, you know. We
10 talked about that for the other.

11 MEMBER MUNN: And this might be as
12 good a time as any to think about the issue
13 that started this entire discussion, that is,
14 how much tracking needs to follow once we have
15 it transferred.

16 CHAIR GRIFFON: Right.

17 MEMBER MUNN: If it is transferred
18 somewhere, then how do we prime the system so
19 that there's closure from the transfer point?

20 CHAIR GRIFFON: Well, also, how do
21 we know, I can tell you in the first five
22 sets, we had a bunch that were transferred for

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1 site profile review, I believe, you know, or
2 site review. And even though we said we
3 completed the five sets, there were still some
4 that, you know, completed was not defined as
5 your Procedures Work Group is defined.

6 MEMBER MUNN: Yes.

7 CHAIR GRIFFON: So yes, that's an
8 issue for the -- because the site profile --
9 again, the site profile ones, you know, we
10 reviewed on that separate work group and then
11 we -- somehow we have to be alerted on the --
12 this Subcommittee that it is completed there,
13 you know.

14 MR. KATZ: I think you would want
15 to have a check-back where you keep control of
16 the information yourself as well as asking
17 them to report back, because it may not
18 happen.

19 CHAIR GRIFFON: Yes.

20 MEMBER MUNN: It might be
21 worthwhile to set up an hour's worth of
22 telephone conversation, technical conversation

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1 with respect to how to build in that automatic
2 feedback, so that this group, for example,
3 does not continually be in the position of
4 needing to probe some other committee --

5 CHAIR GRIFFON: Yes.

6 MEMBER MUNN: -- for the feedback
7 that you need.

8 CHAIR GRIFFON: But the problem --
9 yes, I guess.

10 DR. MAURO: In this system you
11 have it transferred. Okay. Let's say we
12 transfer to the Procedure's Work Group OTIB-
13 18. Okay. And it says transfer. Let's say
14 we did that here. Wouldn't that automatically
15 be our system?

16 In other words, if you look as
17 well, this one has been transferred, then
18 automatically you go over and say has it been
19 closed in 18? If it's not closed yet in 18,
20 then you're still alive.

21 CHAIR GRIFFON: Right.

22 DR. MAURO: So if it's closed in

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1 18, then you say, okay, it has been closed in
2 18. We could go --

3 CHAIR GRIFFON: But if the
4 databases --

5 DR. MAURO: I'm saying that --

6 CHAIR GRIFFON: -- are linked --

7 MR. HINNEFELD: I think Wanda is
8 saying somehow have a link that says, you
9 know, if it's transferred on a certain date
10 and then in procedures review if it's closed
11 out, then it will automatically alert you.

12 DR. MAURO: That has been closed
13 out. That would be flagged, yes.

14 MEMBER MUNN: Flagged, right.

15 CHAIR GRIFFON: Yes, that would be
16 nice. Instead of having to do it, you know,
17 like manually. The other thing is with --
18 it's not so bad with procedures, but when you
19 get into the site profile reviews, you're
20 talking about, what, 20 different work groups.

21 DR. MAURO: Yes.

22 MR. HINNEFELD: Yes.

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1 CHAIR GRIFFON: And we'll have to
2 contact each chair and say, you know.

3 DR. MAURO: Yes.

4 CHAIR GRIFFON: I'm not even sure
5 when we transfer them that the work group
6 always knows that we transferred them. I
7 think NIOSH always knows and probably keeps it
8 in the loop. But you know what I mean, when
9 we say this is a site profile issue, I'm not
10 necessarily sure there is a system to make
11 sure that the chair of that work group knows
12 that we have just sent them something, you
13 know.

14 MEMBER MUNN: No, these
15 administrative details --

16 CHAIR GRIFFON: Yes, I know, I
17 know.

18 MEMBER MUNN: -- are really --

19 DR. MAURO: See, to me, it's they
20 only come to life after you start to
21 implement.

22 CHAIR GRIFFON: I agree, I agree.

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1 DR. MAURO: Right now, we're just
2 right out of the woods on procedures and we're
3 sort of marching. Now, we're about to enter
4 the woods on dose reconstructions.

5 MEMBER MUNN: Yes.

6 DR. MAURO: And how it actually --

7 CHAIR GRIFFON: But my hope is
8 that we have a lot of the same similar
9 interests, yes.

10 DR. MAURO: Oh, I think we will.
11 But until we load and use --

12 CHAIR GRIFFON: Right.

13 DR. MAURO: -- I'd say these kinds
14 of details aren't going to emerge and be
15 resolved in a way that really serves us well.
16 It's hard to anticipate --

17 CHAIR GRIFFON: I know.

18 DR. MAURO: -- in advance what
19 will work.

20 MEMBER MUNN: It is. Although, if
21 we can agree to at least utilize the same
22 terminology --

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1 DR. MAURO: Yes.

2 CHAIR GRIFFON: Yes.

3 MEMBER MUNN: -- so that transfers
4 made --

5 CHAIR GRIFFON: I think we have
6 to, yes.

7 MEMBER MUNN: And in abeyance
8 means the same thing.

9 CHAIR GRIFFON: Right, right.

10 MEMBER MUNN: Then that in itself
11 will be helpful.

12 CHAIR GRIFFON: Yes, I agree.

13 MEMBER MUNN: The only final loop
14 that does not appear to be closed, as I
15 understand our system to be operating now, is
16 that feedback to the point of origin.

17 CHAIR GRIFFON: Right.

18 MEMBER MUNN: To let the
19 originator know this has been closed or it is
20 being held in abeyance. There is no feedback.

21 CHAIR GRIFFON: Right.

22 MEMBER MUNN: Automatic feedback.

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1 CHAIR GRIFFON: Because we haven't
2 had two databases, yes.

3 MEMBER MUNN: Yes.

4 MS. BEHLING: This is Kathy
5 Behling. I just want to briefly summarize
6 what I did with the dose reconstruction
7 database. I did try very hard to make it as
8 similar to the procedures database and using
9 all of the same status terminology that we are
10 using for the procedures. We tried to make
11 sure everything is as consistent as we have
12 already developed for the procedures, because
13 that does seem to be working.

14 And as you have mentioned, I
15 envision that since these systems are all
16 going to be linked, and currently we only have
17 the procedures, as you know, and we do have in
18 place now, but it hasn't been tested or really
19 reviewed, as I indicated on the dose
20 reconstruction database.

21 But I do envision that once --
22 since they are linked and once -- and we know

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1 that they are going to be transferred, a
2 finding will be transferred from one system to
3 the other once it is closed with procedures or
4 ultimately with the site profiles, it should
5 have a link back that says this is now closed
6 according to the procedures database or the
7 site profile database.

8 The only thing I will mention is
9 that we haven't been given a cap to start
10 looking into doing the site profile databases.

11 CHAIR GRIFFON: Right, right.

12 MS. BEHLING: Don Loomis is
13 certainly in a position to do that and very
14 capable. And now that we have these two
15 systems set up, that should be a fairly quick
16 thing to do.

17 MR. KATZ: So you are saying,
18 Kathy, that he can fairly quickly set one up
19 for a site profile work group?

20 MS. BEHLING: I would imagine so
21 just based on what we have done. And I think
22 the procedures work and the dose

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1 reconstruction work is fairly complicated, and
2 I think what we had to design in the dose --
3 or in the database is probably as
4 sophisticated as it is going to get. And I
5 think just doing the site profile shouldn't be
6 -- it's not like we are delving into new
7 territory here. I think for Don it should be
8 a fairly quick process.

9 DR. MAURO: In terms of scale, for
10 example, there are 133 procedures, each one
11 has maybe ten findings.

12 CHAIR GRIFFON: Right.

13 DR. MAURO: For the dose
14 reconstruction there are 140 dose
15 reconstructions done to date, each one may be
16 five or ten.

17 CHAIR GRIFFON: Yes, right.

18 DR. MAURO: The dose -- did -- the
19 site profiles 28 and each one may be seven or
20 eight or ten.

21 CHAIR GRIFFON: Yes.

22 DR. MAURO: Now, I mean, we're

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1 talking about in terms of scale.

2 MEMBER MUNN: Yes.

3 DR. MAURO: We're not going to be
4 -- it's not going to become like an avalanche.

5 CHAIR GRIFFON: Yes, and that
6 would make it one big database, but that's
7 however you guys want to design that. I mean,
8 different tabs for different site profiles.

9 DR. MAURO: Just loading the data.

10 CHAIR GRIFFON: Right.

11 DR. MAURO: And getting it to
12 work --

13 MEMBER MUNN: Yes.

14 DR. MAURO: -- is the hard part.

15 CHAIR GRIFFON: So that's fairly
16 easy.

17 DR. MAURO: Procedures.

18 MEMBER MUNN: Procedures.

19 DR. MAURO: And DRs.

20 MEMBER MUNN: Yes.

21 DR. MAURO: This is hard. We get
22 that knocked and --

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1 CHAIR GRIFFON: Right.

2 MEMBER MUNN: I think so.

3 CHAIR GRIFFON: All right. We
4 will look at that. If we need a technical
5 call, fine, we can do that. But I think I
6 tend to agree with John. If we have a similar
7 starting point, let's load it and see how it
8 starts working.

9 MR. KATZ: So are you building in
10 an active link already for this?

11 DR. MAURO: For this one right
12 here?

13 MR. HINNEFELD: That's follow-
14 back. The follow-back.

15 CHAIR GRIFFON: I think we need
16 it. I don't know.

17 MEMBER MUNN: For this?

18 CHAIR GRIFFON: Yes.

19 DR. MAURO: Kathy, this is John.
20 I suspect this link that we are talking about
21 between the two, so that, for example, when an
22 issue is closed on these procedures that

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1 somehow there is a flag in the dose
2 reconstruction that, yes, it has been closed.

3 That sounds to be straightforward. It's
4 something Don could take care of, but I hate
5 to put words into Don's mouth.

6 This is certainly worth looking --
7 if you could check with Don or whatever to see
8 what would be involved on that flag?

9 MS. BEHLING: I will do that. And
10 as I indicated, I envision that already being
11 built in and Don and I have talked about that.

12 So I would assume that that type of thing is
13 already there, since we do have these two
14 databases.

15 CHAIR GRIFFON: All right. And
16 like you said, Kathy, it would be something
17 that flagged, but we can --

18 MS. BEHLING: Yes, I'll confirm.

19 CHAIR GRIFFON: Be some type of
20 flag that something was closed out on the
21 other.

22 DR. MAURO: On the other end.

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1 CHAIR GRIFFON: Yes. It wouldn't
2 automatically close out the one in this one.

3 MS. BEHLING: Right. Well, it can
4 notify.

5 CHAIR GRIFFON: Alert.

6 DR. MAURO: Then you judge -- at
7 that point then you make a judgment.

8 CHAIR GRIFFON: Then you make a
9 judgment, right, whether you have to look at
10 the case further or whether it is --

11 DR. MAURO: Right.

12 CHAIR GRIFFON: Yes, yes. Okay.
13 We will move ahead on that then. I'm on 104.

14 I have this as being closed, basically, all
15 the findings, but there are several of them
16 that fall into those white paper-status
17 generic responses for ingestion, resuspension.

18 I think those are still hanging out there,
19 right, to do.

20 MR. HINNEFELD: My recollection is
21 they are still out there, in terms of an
22 actual paper product.

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1 CHAIR GRIFFON: I mean, any --
2 because we are getting a lot of those.

3 DR. MAURO: Yes.

4 CHAIR GRIFFON: Any sense of where
5 that -- that time frame?

6 MR. HINNEFELD: I would have to go
7 find out from Jim.

8 CHAIR GRIFFON: It's on Jim's
9 stack of --

10 MR. HINNEFELD: Yes.

11 CHAIR GRIFFON: Okay.

12 DR. MAURO: If it's any
13 consolation, in all the dose reconstructions
14 that I looked at where I brought that issue
15 up, usually with AWE is a lot of that.

16 CHAIR GRIFFON: Yes.

17 DR. MAURO: Residual period and in
18 the resuspension and the ingestion. Those
19 always contribute to a very, very small
20 portion.

21 CHAIR GRIFFON: Right.

22 DR. MAURO: Now, so I mean, it's

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1 good that we get it cleared up.

2 CHAIR GRIFFON: Right.

3 DR. MAURO: It's been around for a
4 long time, but, at the same time, it really --
5 in none of the cases I can remember was it
6 something --

7 CHAIR GRIFFON: Flipped.

8 DR. MAURO: Yes, it's going to
9 flip anything.

10 CHAIR GRIFFON: It's probably
11 unlikely.

12 MR. HINNEFELD: And in fact --

13 DR. MAURO: But it's been hanging
14 out there a while.

15 MR. HINNEFELD: -- the
16 resuspension issue is in OTIB-something.

17 DR. MAURO: Nine. Unless you have
18 the new one.

19 MEMBER MUNN: OTIB-53 is in the
20 final review.

21 MR. HINNEFELD: No, there is --

22 CHAIR GRIFFON: That's a separate

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1 nine.

2 DR. MAURO: That's separate,
3 that's a different thing.

4 CHAIR GRIFFON: We just talked
5 about resuspension in one of the --

6 MR. HINNEFELD: Well, I mean, a
7 recurrent --

8 CHAIR GRIFFON: The discussion
9 going on is down.

10 MR. MAURO: Yes, it's everywhere.
11 It's everywhere and it's always 10^{-6} . And we
12 always come back and say that
13 is --

14 CHAIR GRIFFON: But Dow is the
15 first place we have seen a fairly specific
16 response, right?

17 MR. HINNEFELD: There is -- I
18 think the debate is farthest along in Dow.

19 CHAIR GRIFFON: Right.

20 MR. HINNEFELD: Because it --

21 DR. MAURO: Dow two.

22 MR. HINNEFELD: -- relates to the

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1 residual period.

2 DR. MAURO: Absolutely.

3 MR. HINNEFELD: The thorium
4 residual period at Dow.

5 DR. MAURO: Absolutely.

6 MR. HINNEFELD: And the discussion
7 I think is farthest along there. So and
8 that's part of Dow residual was that -- I
9 can't remember the TIB number, but I believe
10 there is an OTIB.

11 DR. MAURO: Seventy.

12 MR. HINNEFELD: Is it 70 that
13 talks about resuspension? And is a more
14 formalization, a more formalized setting-out
15 of what has been stated in some of these site
16 profiles. So you know, it's farthest along
17 there and maybe that discussion will end up,
18 you know, at the end of the discussion.

19 CHAIR GRIFFON: That might be on
20 the final document.

21 MR. HINNEFELD: Maybe the
22 discussion there may even have the final. We

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1 would hope that we would have one solution to
2 it.

3 CHAIR GRIFFON: Right.

4 MR. HINNEFELD: As opposed to
5 multiple solutions to a question.

6 CHAIR GRIFFON: All right.

7 MR. HINNEFELD: And then that
8 could be passed on through.

9 CHAIR GRIFFON: Yes. Moving on to
10 105.1, I have that NIOSH agrees and the case
11 will be reevaluated. Is this -- oh, this is a
12 DCF thing.

13 MR. HINNEFELD: Which number are
14 you at?

15 DR. MAURO: One oh five point one.

16 CHAIR GRIFFON: One of five point
17 one, yes. It's a PER review, I think.

18 MR. HINNEFELD: Okay.

19 CHAIR GRIFFON: Reevaluated under
20 PER, right?

21 MR. HINNEFELD: This is -- this
22 used min/max in the tool. And from the broad

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1 min/max, not the 18 min/max. And that has
2 been changed and, I believe, all these cases
3 have been reconsidered.

4 CHAIR GRIFFON: Okay. That's
5 right. And that's where it starts. So maybe
6 it has already been reevaluated.

7 MR. HINNEFELD: I believe.

8 CHAIR GRIFFON: Yes.

9 MR. HINNEFELD: But I could take a
10 look.

11 CHAIR GRIFFON: And for these PER
12 cases, I think, this is a good example of what
13 you are saying that we may not want to relook
14 at all these cases, but we may want to sample
15 some of them.

16 MR. HINNEFELD: Yes, sample.

17 CHAIR GRIFFON: We had fun with
18 those before, so if we show, reevaluated under
19 PER review, that could be a reason. You know,
20 once we find out it has been reevaluated, then
21 we would -- we could sample from those just --
22 or you know, yes.

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1 MR. HINNEFELD: Yes.

2 CHAIR GRIFFON: Do them all, but
3 unlikely. I think we would want a sample from
4 some, you know.

5 MR. HINNEFELD: Yes.

6 CHAIR GRIFFON: TIB-49 comes up --
7 I mean, Super S I see a lot of them that are
8 reevaluated for Super S.

9 MR. HINNEFELD: There were a lot.

10 CHAIR GRIFFON: Yes, yes.

11 MR. HINNEFELD: There were a ton.

12 CHAIR GRIFFON: Right.

13 MR. SIEBERT: So 105.1 is one that
14 is being returned to us because it is Super S?

15 CHAIR GRIFFON: It is also Super
16 S.

17 MR. SIEBERT: Because it's got
18 that, too.

19 CHAIR GRIFFON: Yes, yes. So
20 okay. But I think that covers 105.

21 MEMBER MUNN: All of them?

22 CHAIR GRIFFON: I think so, yes.

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1 MEMBER MUNN: And before we go
2 there --

3 CHAIR GRIFFON: Yes.

4 MEMBER MUNN: -- I stuck my nose
5 earlier into 104.7, asking about OTIB-53 being
6 on final review and we said no, that what we
7 were talking about is --

8 CHAIR GRIFFON: Oh, yes.

9 MEMBER MUNN: But are we done with
10 53 yet?

11 MR. HINNEFELD: It took 53s review
12 a bit longer than anticipated.

13 MEMBER MUNN: Okay. So it's still
14 there.

15 MR. HINNEFELD: There is still
16 discussion about the 53 and its utility, you
17 know, how useful is this really going to be as
18 it's put together. It's recycled uranium.

19 CHAIR GRIFFON: Yes.

20 MR. HINNEFELD: Non-uranium
21 elements and recycled uranium.

22 MEMBER MUNN: I'm trying to find a

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1 defensible reason to close any one of these.

2 DR. MAURO: Just as a quick aside
3 on the recycled uranium issue, I know that
4 they like came up on a number of occasions.
5 Whenever we look at Fernald, you go with 100
6 parts per billion as being a default only.

7 CHAIR GRIFFON: Yes.

8 DR. MAURO: And then when you go
9 with the AWE's generic approach adopted in the
10 TBD-6000, you go with 10. And we understand
11 the reason now. In this new Ru, is there --
12 are you stretching that story further? Is
13 there more to the story? Is that basically
14 where you are coming out?

15 MR. HINNEFELD: I don't know what
16 the numbers are, to be honest, in terms of
17 what the value is, but it's supposed to rely--
18 it's supposed to provide more content support
19 for the numbers selected. And I don't -- and
20 I think the numbers selected may go from, you
21 know, site profile to site profile.

22 DR. MAURO: Oh, so you might

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1 change?

2 MR. HINNEFELD: Yes. It may not be
3 universal or it may universally apply. I just
4 am not that familiar with this.

5 MR. SIEBERT: Our understanding is
6 going to be that if you have site profile
7 numbers, those are what are --

8 MR. HINNEFELD: Those are what are
9 used.

10 MR. SIEBERT: -- used.

11 DR. MAURO: Okay.

12 MR. HINNEFELD: If you don't have
13 that, then you go back and --

14 CHAIR GRIFFON: So in this case,
15 Superior Steel, I don't think you have a site
16 profile, do you or do you?

17 MR. HINNEFELD: There is a
18 Superior Steel.

19 CHAIR GRIFFON: Oh, there is?

20 MR. HINNEFELD: I remember doing
21 it.

22 CHAIR GRIFFON: So that was the

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1 question on this one. I'm glad you saw that
2 one. I missed that publication. Is this a --

3 MR. HINNEFELD: Is this a TIB-53
4 question or is this more of a site profile
5 question?

6 CHAIR GRIFFON: I think it's more
7 a site profile question, if it's Superior
8 Steel.

9 CHAIR GRIFFON: And then it came
10 down to that mini site profile review kind of
11 event. And this and that. I mean, I don't --

12 DR. MAURO: So we didn't do -- I
13 mean --

14 CHAIR GRIFFON: You didn't really
15 do it on Superior. We just started that
16 later, right? I think, yes.

17 DR. MAURO: Yes, keep in mind that
18 the mini site profile or AWEs were limited to
19 Huntington, Hawshaw and Bridgeport Brass.

20 CHAIR GRIFFON: That's right.

21 DR. MAURO: Now, any others are
22 simply an artifact of the fact that we had a

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1 review for the case, like Superior Steel--

2 CHAIR GRIFFON: Right.

3 DR. MAURO: -- and others did not
4 really get the treatment that we're getting at
5 Hawshaw, for example. There's actually three
6 stand-alone, you know, 30-page --

7 CHAIR GRIFFON: Right.

8 DR. MAURO: -- attached to the
9 eighth set. In the back of the eighth set you
10 will see an appendix where we reviewed them,
11 but we didn't reuse Superior Steel like that.

12 CHAIR GRIFFON: So I guess that's
13 the question in 104.7, I'm looking to see if I
14 have other notes in here.

15 MR. HINNEFELD: So then this
16 comment really would be a 53. This would
17 relate to the site profile.

18 DR. MAURO: Right.

19 CHAIR GRIFFON: Yes, my note like
20 yours, Wanda, said TIB-53 last time, but I
21 made a mistake on that. It's really --

22 MR. SIEBERT: Well, I don't think

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1 it's a mistake. I think it's the thought
2 process from 53 has changed as to what we are
3 going to use it for.

4 CHAIR GRIFFON: Okay.

5 MR. SIEBERT: And we may need to
6 determine does 53 have an applicability here?

7 CHAIR GRIFFON: All right. So
8 what is the -- it's really handled, it has got
9 separate numbers in the site profile?

10 MR. SIEBERT: Right. The site
11 profile has plutonium and neptunium numbers.

12 CHAIR GRIFFON: And let's refresh
13 the discussion on that, John, if we can.

14 MR. HINNEFELD: The finding is
15 that where did you get the number?

16 CHAIR GRIFFON: Right.

17 DR. MAURO: Yes, I can help out a
18 bit here.

19 MR. HINNEFELD: Yes.

20 DR. MAURO: Most of the AWEs I did
21 and very well from when I come across recycled
22 uranium, if you don't give a rationale to why

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1 you picked a given parts per billion with
2 uranium or neptunium, I would say, please
3 explain.

4 Now, my experience is when you did
5 explain, when you, for example, can in after
6 with the 10 part per billion number, I think,
7 on one site and then I was able to research
8 that, you find out that that is probably not a
9 bad number. And -- but when you don't say
10 anything about it, I think, there is a -- the
11 onus -- it may turn out simply to be make
12 reference to, well, if 53 is ready, great, or
13 make reference to some other rationale section
14 that you have had in another, other dockets.

15 Because I believe there is a
16 general guideline that DOE used. Anything
17 leaving Fernald that was going to be -- that
18 was going to go somewhere else as AWE for any
19 kind of special metal processing, for example,
20 there was a tech spec saying it could not be
21 more than 10 parts per billion.

22 MR. HINNEFELD: That was most of

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1 the theory complex.

2 DR. MAURO: Right, right. But
3 Fernald was special, because you did handle
4 and we just went through this on a Fernald
5 Work Group.

6 MR. HINNEFELD: Yes.

7 DR. MAURO: And stuff came in
8 pretty high.

9 CHAIR GRIFFON: Some stuff, yes.

10 DR. MAURO: Yes, yes.

11 CHAIR GRIFFON: From Paducah, I
12 mean.

13 DR. MAURO: From Paducah.

14 DR. MAURO: So again, this might
15 be an easy one to fix.

16 MR. HINNEFELD: It sounds like
17 probably where we were, my thought process
18 when I referred to recycle the OTIB was that
19 the research that they are going through to
20 prepare the recycled TIB should inform us on
21 whether, you know, it provides the support for
22 these numbers. That should be what I -- how I

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1 phrased it.

2 I don't think I phrased it that
3 way. But that should have been what I said.
4 And so hopefully that research has been
5 accomplished. I'll just have to go back and
6 find out from that research what kind of
7 support do we have for these numbers and make
8 that be like Superior Steel.

9 CHAIR GRIFFON: Okay. So we still
10 -- we just need -- this is waiting a NIOSH
11 response. I think I'm going to leave it like
12 that rather than -- because I don't think it's
13 going to be TIB-53 necessarily.

14 MR. HINNEFELD: Right, yes.

15 CHAIR GRIFFON: So NIOSH response
16 on the basis for the numbers.

17 MR. HINNEFELD: Yes.

18 CHAIR GRIFFON: Basis for the
19 concentrations. Okay.

20 MEMBER MUNN: Response on what did
21 you say?

22 CHAIR GRIFFON: Basis for the

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1 trans -- concentration.

2 DR. MAURO: Selected value.

3 CHAIR GRIFFON: Right.

4 DR. MAURO: Found in the Superior
5 Steel case, the number. There is no
6 justification there.

7 CHAIR GRIFFON: And it could be
8 pretty straightforward like you said in there.

9 Stuff came from here, we know that the tech
10 spec was this and, you know, so hopefully that
11 will be fairly easy to resolve. Okay. Thank
12 you, Wanda, for -- I missed that one.

13 MEMBER MUNN: Oh, well.

14 CHAIR GRIFFON: Even though it
15 didn't get closed, I didn't want to lose it.

16 105 is the reevaluated one, right?

17 DR. MAURO: Yes.

18 CHAIR GRIFFON: And that covers
19 105 and 105.1, 105.2. 105.3 I think I have
20 procedures modified. This is PROC-006.
21 "NIOSH procedure is modified and case being
22 reevaluated for other," you know --

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1 MR. SIEBERT: This is the over
2 two --

3 CHAIR GRIFFON: -- reasons.
4 Right. This is the --

5 MR. SIEBERT: Which is
6 automatically rolled in.

7 CHAIR GRIFFON: Right. All right.
8 105.4 has been revised, is my note.

9 MR. HINNEFELD: That is the DCF.
10 That's the full range DCF.

11 CHAIR GRIFFON: Okay. And again
12 it is being reevaluated.

13 MEMBER MUNN: So it's still open
14 like that because of the reevaluation?

15 CHAIR GRIFFON: Yes, open only in
16 the sense of the whole case, but, finally,
17 itself I think is closed.

18 DR. MAURO: Finally it was closed.

19 CHAIR GRIFFON: And then that's
20 that question of the case is being
21 reevaluated, but we may not go back and look
22 at all these cases that were reevaluated,

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1 based on PERs. When they say -- you know,
2 because we have got -- we're going to have a
3 lot of them and we made this sample from the
4 ones, you know.

5 MEMBER MUNN: So as a procedural--

6 CHAIR GRIFFON: I know, this is
7 difficult, because it's closed, but it is
8 open.

9 MEMBER MUNN: Yes.

10 CHAIR GRIFFON: You have findings
11 that are closed, but the entire case is being
12 reworked. Right, I think that's what you are
13 thinking of.

14 MEMBER MUNN: Well, yes, and I'm
15 still looking for a way to close --

16 CHAIR GRIFFON: I know.

17 MEMBER MUNN: -- every single one
18 of these items and leave others open --

19 CHAIR GRIFFON: Right, right.

20 MEMBER MUNN: -- on that specific
21 -- on that group of findings. It just seems
22 cumbersome for us to continue to look at

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1 materials that we know is essentially closed,
2 especially if the major issue is still being
3 tracked by one of the other open issues under
4 that same number.

5 CHAIR GRIFFON: Well, I wonder if
6 we need to -- I've got to think about this. I
7 was just wondering if we need to have
8 something like 105 and then 105.1, 2, 3, 4, 5,
9 6, 7, whatever, but 105 says the case is being
10 reevaluated, you know. And that holds our
11 place in the database. Then the separate
12 findings, you know -- I don't know.

13 DR. MAURO: What triggers, I mean,
14 a PER and the need to go back to a case?
15 That's one thing. But then when you go into
16 case, they can believe it was never -- it's
17 not even a PER. I mean, we still have -- for
18 example, I see there are some medical issues.

19 CHAIR GRIFFON: Right.

20 DR. MAURO: Why did you use that
21 organ instead of this organ? Well, that's not
22 going to -- you know, now, the degree to

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1 assess the PER is great. But that's not going
2 to trigger the PER. There is usually a PER --
3 in other words, as I understand the PER --

4 CHAIR GRIFFON: Yes.

5 DR. MAURO: -- there is a
6 particular issue that triggers the PER. When
7 you go back and do the case under the PER, you
8 pick up everything else that goes with it.

9 CHAIR GRIFFON: Yes.

10 DR. MAURO: And that's always a
11 convenience.

12 CHAIR GRIFFON: Yes.

13 DR. MAURO: But that doesn't mean
14 you've got to catch this one, because you may
15 not consider this to be an issue.

16 CHAIR GRIFFON: I agree, yes.

17 DR. MAURO: In other words, it's
18 medical. You may look at it and say well,
19 that's -- you know, we don't -- you know, so I
20 think that unfortunately the fact that a given
21 case is undergoing PER redo it -- somehow you
22 would like to capture that in the database.

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1 MEMBER MUNN: Yes.

2 DR. MAURO: But that doesn't mean
3 any particular issue is closed. You see what
4 I'm getting at?

5 CHAIR GRIFFON: Yes.

6 DR. MAURO: Because it may have
7 nothing to do with the PER.

8 MEMBER MUNN: Yes, yes. But if
9 the particular issue is closed --

10 DR. MAURO: If it's closed, it's
11 closed. Yes, it should be closed.

12 MEMBER MUNN: But as long as we
13 have a case like this one where it is still
14 being reevaluated, then we --

15 DR. MAURO: It's closed.

16 MEMBER MUNN: -- essentially
17 cannot close any --

18 DR. MAURO: Well, you can't close
19 it.

20 CHAIR GRIFFON: Right.

21 DR. MAURO: Yes.

22 MEMBER MUNN: -- more of the

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1 items.

2 DR. MAURO: I was going the other
3 way.

4 CHAIR GRIFFON: Yes.

5 MEMBER MUNN: Yes.

6 CHAIR GRIFFON: I mean, I don't
7 think it's a problem, because, you know,
8 eventually, we're going to close a whole lot
9 of them all at once. I mean, I don't think
10 it's that big a deal, right?

11 DR. MAURO: I mean in a way you
12 could say okay, let's say it turns out a loss
13 to the system. We close out all the issues,
14 let's say there are dozens and dozens of cases
15 where we closed out all the issues, except
16 they may still be active under the PER, that's
17 all that's left. That is once the PER issue
18 is closed and resolved to the satisfaction of
19 the PER review process, doesn't that
20 automatically rip right through all the ones
21 that are still alive?

22 Because we have closed the -- what

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1 I'm trying to say is if you have a whole bunch
2 of real cases that have been closed, the case
3 -- some of the issues have been closed. And
4 the only thing -- the reason why they are
5 remaining open is because of the PER. All
6 right?

7 Then once the PER is closed, in
8 theory, this whole thing should -- they should
9 all be closed.

10 CHAIR GRIFFON: No. They should
11 all be flagged.

12 DR. MAURO: Flagged. No, I'm
13 sorry.

14 CHAIR GRIFFON: Right, yes.

15 DR. MAURO: They should all be
16 flagged that they should, in theory, be
17 closed.

18 CHAIR GRIFFON: Right.

19 DR. MAURO: But just take a look
20 and make sure.

21 CHAIR GRIFFON: Right, yes. And
22 then that's what I was saying, taking a look

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1 and making sure. It may not be looking at
2 every single case. I mean, I don't think we
3 want to do that, but look at some sampling of
4 them.

5 MEMBER CLAWSON: I don't think,
6 you know, where we got like the faster/slower,
7 you know, some of these ones that we had a lot
8 of big ones, like the sampling ones, but
9 something that has been kind of bothering me
10 as we go through here is the exact same thing,
11 how do we finally finalize?

12 You know, we can do one that is
13 like procedure. We've got a few oddball ones
14 out there. And how do we track these and make
15 sure that --

16 CHAIR GRIFFON: Oh, yes, those got
17 to be closed individually. I mean, I'm
18 thinking we're talking like the DCF, like the
19 LOD over 2, like the Super S, those we are
20 going to have. You know, lots of cases fall
21 into those. And those are the ones I would
22 say I don't know that we need to necessarily

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1 do 100 percent redos, you know.

2 But the other ones, we have to
3 track individually, if we can, yes.

4 MEMBER CLAWSON: And I am just
5 wondering --

6 CHAIR GRIFFON: There's no way to
7 get around that, I don't think.

8 MEMBER CLAWSON: I am just
9 wondering how we are going to fit this in to
10 this matrix.

11 CHAIR GRIFFON: Well, I think the
12 one mechanism is if we defer to certain
13 procedures or whatever, then it goes to
14 Wanda's group, but when they complete their
15 work, we will get -- it will red flag the
16 system and the other database, the other table
17 saying it has been closed out in the
18 Procedure's Group, you know. And then we can
19 relook at it. We don't, you know --

20 DR. MAURO: Remember the PER on
21 the -- because PERs are done on the
22 Procedure's Group. And remember what they

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1 really do. They really say okay, they really
2 try to answer two questions. One, has NIOSH
3 instituted a process where it has identified
4 all of the cases that theoretically could have
5 been impacted?

6 Second is the fix, that is the --

7 CHAIR GRIFFON: Reasonable.

8 DR. MAURO: -- fixed,
9 scientifically sound and reasonable that it
10 has been adopted. Now, all we then do, the
11 last step in our process, is to randomly
12 select three. In fact, the Board randomly
13 selects three cases to say okay, almost like
14 proofing principles. Yes, in fact, just what
15 they said they did. The PER was, in fact,
16 done in these three cases.

17 CHAIR GRIFFON: Right.

18 DR. MAURO: That serves as sort of
19 a prima facie that yes, in fact, it did work
20 and it was implemented.

21 CHAIR GRIFFON: Yes.

22 DR. MAURO: Now, what I'm hearing

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1 is there may be dozens of others.

2 CHAIR GRIFFON: Well, then I can
3 tell you what I was thinking anyway is --
4 because I can remember some of these. I think
5 Savannah River, there were a couple that were
6 reported on in 47, 48 percent. So when that
7 note comes back from Wanda's group that this
8 Super S thing has been reviewed and completed,
9 you know, it's going to be tricky, because
10 several of them have several PERs, too. So we
11 may have to wait for all, several PERs to be
12 closed.

13 But once they are all closed for a
14 certain case and we've got a case that
15 previously was like 48 percent and now it
16 turns out to be 47 percent or whatever, we may
17 want to -- you know, we may want to take
18 another look at that one. If we had a case
19 that was 15 percent say, it might not be as
20 important to reevaluate that if you are
21 satisfied on Procedure's Group.

22 You know, so I think we would

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1 sample from the Dow and if we had 50 cases, I
2 don't know what the appropriate percentage is.

3 We can talk about that more. I'm sure it's
4 not 100 percent, in my mind anyway. I don't
5 think we go back and look at 100 percent of
6 them.

7 DR. MAURO: There are certain big
8 ones.

9 CHAIR GRIFFON: 10 percent maybe,
10 you know.

11 DR. MAURO: There is high fired,
12 which have, I don't know how many, hundreds.

13 CHAIR GRIFFON: High fired has a
14 lot.

15 DR. MAURO: Thousands.

16 CHAIR GRIFFON: Thousands, right.

17 So we are not going to have construction work
18 on the big ones. We're not going to open up
19 every one, obviously, but I think the
20 important ones to look at are going to be
21 those borderline ones, because we have seen
22 this already. And if they modify something on

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1 the Super S, and if they were over favorable
2 in other areas, they may go back and redo the
3 specifications.

4 DR. MAURO: Yes, sure.

5 CHAIR GRIFFON: So the whole thing
6 could look very different than when we
7 reviewed it.

8 MR. HINNEFELD: That's for sure.

9 CHAIR GRIFFON: So I think we
10 might have to take another look at some of
11 those, you know.

12 DR. MAURO: Are you saying like
13 have a -- I mean, if you want to standardize
14 it, you would just say anything over 40
15 percent would be looked at dramatically?

16 CHAIR GRIFFON: I haven't got that
17 far in my thinking, but that's something to
18 consider. We can, you know, look at some sort
19 of screen cut off, you know. Yes. But I
20 think that's the way it will work, you know,
21 eventually.

22 MR. HINNEFELD: We'll get there.

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1 DR. MAURO: Or it could be argued
2 if the PER process -- if SC&A review the PER,
3 pick randomly the three, they all scored well,
4 solve it.

5 CHAIR GRIFFON: Yes, but it's
6 different on a case. Like I just tried to
7 describe, John, the, you know, PERs could be
8 all fine and according to the procedure that
9 you reviewed, but when they adopted all those
10 changes in the pre-PERs --

11 DR. MAURO: In combination.

12 CHAIR GRIFFON: In combination for
13 this one case, then they said whoa, we're over
14 51. You know, it's like 53 percent. Well,
15 wait a second, we gave them -- we were too
16 generous in this other area, we sharpen our
17 pencil as Jim used to say, and it goes down
18 below.

19 So I think there is other
20 considerations on the case level than on the--
21 you know what I mean?

22 DR. MAURO: Right.

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1 MR. KATZ: So the PER is just to
2 prove the principle.

3 CHAIR GRIFFON: Right, right.

4 MR. FARVER: You know, when you
5 evaluate a case on whether a PER will have an
6 effect on it, is that whether the PER will
7 raise the overall dose or raise the POC?

8 DR. MAURO: Well, always --

9 CHAIR GRIFFON: Yes, that's a
10 procedure's review question for you guys.
11 When you review the PER, how do you do?
12 What's your screening mechanism?

13 DR. MAURO: Well, your concern is
14 that when it comes to a real case where --

15 CHAIR GRIFFON: You have
16 multiple --

17 DR. MAURO: -- the PERs play at
18 the same time --

19 MR. FARVER: What I was getting at
20 is if you have one -- if you look at a case
21 like Super S, you say well, maybe Super S can
22 apply to this person. So it would have no

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1 affect on that case.

2 DR. MAURO: Right. That wouldn't
3 even make it.

4 MR. FARVER: But maybe we have one
5 with dose conversion practice. It would raise
6 the dose a little bit, but maybe not enough.
7 Maybe there is a third PER out there that will
8 raise it a little bit more, but if we're just
9 evaluating that PER, you can cut it and say
10 well, that PER in itself won't have an effect
11 on that case or won't raise it over 50
12 percent.

13 CHAIR GRIFFON: Yes.

14 MR. FARVER: Cumulatively, if you
15 go back and work them all --

16 CHAIR GRIFFON: That's a question
17 we should be asking NIOSH in the PER review
18 process, yes.

19 DR. MAURO: The fact that we have
20 sophistication in asking these questions,
21 we've come a long way. I mean, you know.

22 CHAIR GRIFFON: Yes.

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1 DR. MAURO: The overlap didn't
2 affect the PERS.

3 CHAIR GRIFFON: Yes.

4 DR. MAURO: This is the first time
5 we've talked about it.

6 MEMBER MUNN: Yes, it is.

7 MR. HINNEFELD: I mean, we've
8 talked about this and --

9 DR. MAURO: Sometime beforehand.

10 MR. HINNEFELD: -- I think so. I
11 mean, how do we know when a case is reworked?
12 That, yes, we took, you know, everything --

13 DR. MAURO: Okay.

14 MR. HINNEFELD: You asked me how
15 many cases that were reworked, that have been
16 reviewed, have been reworked through the PER
17 and are all the way back through the system.

18 CHAIR GRIFFON: Right.

19 MR. HINNEFELD: And there are two
20 and I sent them.

21 CHAIR GRIFFON: Yes, you sent
22 those. You emailed those, right.

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1 MR. HINNEFELD: Yes. So there are
2 two cases out there that have been all the way
3 through the system, so only at --

4 CHAIR GRIFFON: That were on our
5 initial list of 140 cases.

6 MR. HINNEFELD: Yes. You know,
7 that isn't the point, when these should be
8 revisited that are available to revisit them.

9 CHAIR GRIFFON: Right, right.

10 MR. HINNEFELD: And we also talked
11 about --

12 CHAIR GRIFFON: But Doug is asking
13 a question how you decide cases need to be --
14 yes, what cases need PER review, right.

15 MR. FARVER: Is it based on a
16 single PER or is it based on the cumulative
17 effect of if there is multiple PERs?

18 CHAIR GRIFFON: What triggers a
19 case to be reevaluated based on PERs?

20 MR. HINNEFELD: Oh --

21 CHAIR GRIFFON: Because you have
22 this multiple -- this question of multiple

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1 PERS.

2 MR. HINNEFELD: The PER defines
3 its universe that these are the cases that
4 could be affected upwards by this.

5 MR. FARVER: Yes, well, we
6 reviewed --

7 CHAIR GRIFFON: Any cases that
8 could be affected upward?

9 MR. HINNEFELD: Yes.

10 MR. FARVER: Yes.

11 CHAIR GRIFFON: Okay.

12 MR. HINNEFELD: We look at every
13 one.

14 CHAIR GRIFFON: Okay.

15 MR. HINNEFELD: And we confirm --

16 CHAIR GRIFFON: That answers that
17 question.

18 MR. HINNEFELD: Okay, yes.

19 DR. MAURO: Rock solid. We review
20 the thoracic effect. I'm sure Hodges --

21 CHAIR GRIFFON: That answers that
22 question.

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1 DR. MAURO: And one of the areas
2 where we found rock solid was doing that. You
3 know, you exhaustively checked to make sure
4 that this case had all -- been affected.

5 CHAIR GRIFFON: Yes.

6 DR. MAURO: And this was the
7 thoracic lymphoma.

8 MR. FARVER: For any case that can
9 be raised upward gets reworked.

10 DR. MAURO: I think denial.

11 CHAIR GRIFFON: Yes.

12 DR. MAURO: Any denial.

13 CHAIR GRIFFON: Any denial.

14 DR. MAURO: Any denial couldn't be
15 affected. And all TIB -- my understanding is
16 all PERs will be denied, because they could
17 affect it upward, otherwise, it wouldn't be a
18 PER.

19 MR. HINNEFELD: Yes. If the
20 change reflects -- would require --

21 DR. MAURO: So by definition --

22 MR. HINNEFELD: -- we don't do a

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1 PER.

2 CHAIR GRIFFON: Right.

3 MR. HINNEFELD: A change that puts
4 -- raises the dose or raises the dose even for
5 some. The ones that are potentially affected
6 are the universe and they are all considered.

7 Some of them -- and they are all -- there
8 have been a number of evolutions of the PER
9 process and that's based on discussion between
10 us and DOL, because there are multiple things
11 that weigh into doing this as well as you can.

12 One of which is your
13 communications with the claimants and so on
14 and so forth and there is a lot involved and
15 this is fairly complicated with that aspect of
16 reviewing a case. And so there have been a
17 series of, you know, revisions to the PER
18 process.

19 For about the past year, we have
20 not initiated any new ones and the -- we know
21 that there are going to be some, because based
22 on site profile review and things like that.

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1 We know there are going to be technical
2 changes that are going to affect cases that
3 were already done.

4 Those type of changes aren't
5 finally published yet and so when we finally
6 publish them, that's when we are going to have
7 to come to grips with DOL about okay, we're
8 going to do these the same way we did, because
9 we got some feedback and we got a lot of
10 information and it's a very difficult
11 coordination with DOL to deal with the claim
12 in this fashion.

13 So based on that, we have still
14 some discussions to be made before we would
15 resume. I think both of our agencies would
16 want to have a conversation about what is the
17 best way, based on all of the feedback we have
18 received so far, that we want to deal with
19 cases that would be in this.

20 None of them will get left out.
21 They will all be reconsidered in the
22 measurement and all the changes will be

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1 considered in every one of those cases. But
2 the -- it may not be that every single one
3 gets reworked, which was what was done most
4 recently. Okay.

5 CHAIR GRIFFON: All right. Back
6 to the matrix. We're going to get through
7 this before the break, I know.

8 DR. MAURO: We keep going into
9 this deeper.

10 CHAIR GRIFFON: No, no, I know. I
11 know. 105.5, I have that NIOSH agrees with
12 the finding on this medical dose question.

13 MR. HINNEFELD: Well, yes, it was
14 as if --

15 CHAIR GRIFFON: Yes.

16 MR. HINNEFELD: It kind of goes
17 away. It is sort of self-closing though,
18 because if you read the entire response, the
19 site profile, the values in the site profile
20 have been revised downward based on more
21 complete research.

22 CHAIR GRIFFON: Right.

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1 MR. HINNEFELD: So even though
2 given the guidance in place when the dose
3 reconstruction was done, the dose was
4 underestimated. If it were done by today's
5 guidance, it was still overestimated.

6 CHAIR GRIFFON: Yes, I said NIOSH
7 reviews the finding, although the value
8 applied was over.

9 MR. FARVER: And this is what we
10 could see on these cases that are evaluated on
11 PERs. So the overall dose will go down, some
12 parts of it.

13 MR. HINNEFELD: Very often, very
14 often. A lot of the early plutoniums were
15 done with sort of intentional efficiency
16 overestimates.

17 MR. FARVER: Yes.

18 CHAIR GRIFFON: So then 105.6 I
19 also have SC&A agrees and no further action.
20 106?

21 MEMBER MUNN: You are reading
22 statements that I don't have in my --

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1 CHAIR GRIFFON: Okay. Yes, that's
2 why I'm going through them one by one.

3 MEMBER MUNN: Okay.

4 CHAIR GRIFFON: Just to make sure,
5 yes. I had agreement on 105.6, but -- with
6 SC&A.

7 MEMBER MUNN: Okay. So what you
8 said, I was puzzling over what I have under
9 105.5 as opposed to what you were saying. You
10 are saying, essentially, 105.5 is --

11 CHAIR GRIFFON: Is closed.

12 MEMBER MUNN: -- done.

13 CHAIR GRIFFON: Yes, yes. 105.6
14 also I have closed. I think what happened
15 here is I think Stu or NIOSH provided more of
16 the IMBA runs and, Doug, I think you looked at
17 them and then you were comfortable with that.

18 MR. FARVER: Correct.

19 CHAIR GRIFFON: So that closed it
20 out.

21 MEMBER MUNN: And the same is true
22 then about 6?

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1 CHAIR GRIFFON: That's 105.6,
2 that's the one I was just talking about, yes.

3 MEMBER MUNN: Right.

4 CHAIR GRIFFON: And then 106.1 --

5 MEMBER MUNN: Already closed.

6 CHAIR GRIFFON: It's already --
7 for 106.1, I have NIOSH agrees, no affect on
8 the case. It's already compensable. Right.

9 MR. FARVER: Yes, this is the
10 standard range of dose conversion factors.

11 CHAIR GRIFFON: And I have the
12 same thing for 106.2/106.3.

13 MR. FARVER: Yes.

14 CHAIR GRIFFON: 106.4, I'm looking
15 through two different versions of my matrix
16 here. I don't have -- anybody have a status
17 for that one?

18 MR. FARVER: This is the fission
19 products, which would be OTIB-54.

20 DR. MAURO: Fission products,
21 OTIB-54, yes.

22 MR. FARVER: No, no, no.

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1 DR. MAURO: 54 is the fission
2 product.

3 MR. HINNEFELD: Yes, this was done
4 before, but --

5 CHAIR GRIFFON: Right.

6 MR. HINNEFELD: -- fission
7 products should instruct --

8 CHAIR GRIFFON: Should count.

9 MR. HINNEFELD: -- whether this
10 was sufficient or not.

11 MR. FARVER: This is one of our
12 standard findings from the Savannah River
13 case.

14 MR. HINNEFELD: Yes.

15 MR. FARVER: Probably.

16 CHAIR GRIFFON: But I don't have a
17 resolution. Did you?

18 MR. HINNEFELD: Well, it's a
19 compensable case.

20 MR. FARVER: It's a comp case.

21 CHAIR GRIFFON: Yes, it's
22 compensable.

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1 MR. HINNEFELD: So I mean, these
2 are kind of closable.

3 CHAIR GRIFFON: Yes, yes, yes.

4 MR. HINNEFELD: And this finding
5 is not going to get lost, because it's
6 elsewhere.

7 MR. FARVER: It's many times.

8 MR. HINNEFELD: Yes.

9 MR. FARVER: It comes up in the
10 eighth set many times.

11 CHAIR GRIFFON: But is it referred
12 to the Procedure's Group?

13 MR. FARVER: I don't know that it
14 has ever been closed.

15 MR. HINNEFELD: Procedure's Group
16 is dealing with that, isn't it?

17 CHAIR GRIFFON: 54?

18 DR. MAURO: It's on the Arjun,
19 yes. And we have basically, I remember --

20 CHAIR GRIFFON: Well, but this is
21 before TIB-54, right?

22 DR. MAURO: This is, yes.

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1 MR. HINNEFELD: But the issue --

2 CHAIR GRIFFON: TIB-54 should
3 provide the support for this finding in other
4 contexts. I really think since this is a
5 compensable case, it can be closed.

6 MR. HINNEFELD: Well, yes. In
7 this one. In other locations, you would want
8 to address it and what the -- the thought that
9 somebody said earlier, the technical research
10 and discussion to address --

11 CHAIR GRIFFON: But for something
12 to be closed, we have to have SC&A and NIOSH
13 agreeing and you can't agree if it is being
14 transferred to -- you know, what I mean?

15 MR. HINNEFELD: Well, I think we
16 could both agree that this can be closed,
17 because it's a compensable case.

18 MEMBER MUNN: Yes, yes.

19 MR. FARVER: Because I mean --

20 MR. HINNEFELD: I mean you can
21 keep open where -- I don't understand how you
22 are going to close things. I think you guys

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1 are devising a system that is going to keep
2 findings open for a very long period of time.

3 MEMBER MUNN: Yes.

4 MR. HINNEFELD: When, in fact, you
5 could adopt different terminology, rather than
6 keep these findings open.

7 MR. FARVER: This issue is not to
8 press this case.

9 MR. HINNEFELD: You keep open for
10 a long, long time and they are going to be,
11 essentially, at bed and in rest, but they
12 won't be closed, based on what you are
13 adopting.

14 MEMBER MUNN: I think it's closed.

15 CHAIR GRIFFON: Okay. We just
16 closed three in a row. I don't know what
17 you're getting at.

18 MR. HINNEFELD: I was talking
19 about what you were talking about earlier.

20 CHAIR GRIFFON: Okay. Anyway --

21 MEMBER MUNN: Yes.

22 MR. HINNEFELD: And keeping all

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1 these things open, keeping all these findings
2 open, because this case hasn't been reworked
3 yet. Okay?

4 MEMBER MUNN: Yes.

5 MR. HINNEFELD: All these
6 technical questions raised by this --

7 CHAIR GRIFFON: Yes.

8 MR. HINNEFELD: -- raised by these
9 findings, these are all addressed. These are
10 all answered. The workbooks are changed.

11 CHAIR GRIFFON: Yes.

12 MR. HINNEFELD: All that is done.

13 DR. MAURO: And this case is not
14 going to be revisited, because it has been
15 compensated.

16 MEMBER MUNN: No.

17 MR. HINNEFELD: I agree, I agree.

18 But what I'm saying is you are going to be
19 carrying a status other than closed on each
20 one of these findings on a case that you think
21 you might want to revisit, because it was
22 reworked on a PER. Not this one, but one that

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1 was.

2 CHAIR GRIFFON: Yes.

3 MR. HINNEFELD: You're going to
4 carry all these findings as open when, in
5 fact, they are completely to bed and the only
6 thing that has to be done is to see did this
7 case get redone correctly when a whole raft of
8 changes were made on it when it was done --
9 when it was redone on a PER.

10 CHAIR GRIFFON: Right.

11 MEMBER MUNN: Yes.

12 MR. HINNEFELD: You are keeping
13 things -- you are designing a system that is
14 going to keep these things open for a very,
15 very long period of time when the technical
16 issue that gave rise to the findings is put to
17 bed. That's what I'm saying.

18 MEMBER MUNN: And that was my --

19 MR. HINNEFELD: It's your system.

20 CHAIR GRIFFON: I think if we
21 would --

22 DR. MAURO: I would like to repair

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1 this a little bit. It's really one of how
2 much proof is sufficient to satisfy the work
3 open, that's really what we're talking about.

4 If we go through -- let's say a case was
5 denied. And it was -- and it triggered -- and
6 it is part of the PER umbrella, okay. We go
7 through the case and we address all the
8 issues, other than the ones -- the one that is
9 the PER issue.

10 Let's say it turns out to be a
11 high fire plutonium. Well, it turns out to be
12 thoracic lymphoma. But everything else
13 dealing with x-rays, dealing with LOD over 2,
14 whatever it is, and they have also been part
15 and parcel, we have closed. So the only
16 reason this thing remains open is because
17 there are certain findings in that case that
18 are part of a PER process that -- and that has
19 been implemented or is being implemented,
20 etcetera.

21 Now, so that's where we are in
22 time. Now, we go through the PER. And what's

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1 a perfect example would be the thoracic
2 lymphoma. We went through that PER. We found
3 favorably regarding the PER. Of course, I
4 don't think it has been closed out by the work
5 group yet. I think it is still alive. But
6 let's --

7 MEMBER MUNN: The PERs are
8 hanging.

9 DR. MAURO: Yes. Well, let's go
10 through the thought process. Okay, fine. The
11 end -- the process is finished, including the
12 three cases that are proof of principle. And
13 if the Procedure's Group agrees yes, we
14 believe this PER, it's issues, all issues
15 closed, we'll close them both.

16 Now, we have this case. The only
17 thing we know that is still alive in this case
18 that is still keeping it open is the fact that
19 we're waiting to hear from the PER group
20 whether or not it has been satisfactory
21 closed.

22 Now, I would argue that's the

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1 purpose of the three cases, which is the proof
2 in principle, and not force us to go back and
3 do 3,000 additional -- check every single one
4 of those thousands of thoracic lymphomas
5 and/or to go back and keep those open until we
6 look at every one of them.

7 Now, I'm taking what I would, I
8 guess, consider to be one way of looking at
9 it. That's the reason we do the proof of
10 principle.

11 MR. HINNEFELD: But you are
12 arguing the extremes, too. I mean --

13 CHAIR GRIFFON: Actually, John --

14 DR. MAURO: I'm sort of supporting
15 this.

16 MR. HINNEFELD: You are describing
17 the situation that I'm worried about.

18 DR. MAURO: Right.

19 MR. HINNEFELD: You know, in a
20 certain sense, because like I said, this is
21 your guy's system and you do what you want,
22 you know.

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1 DR. MAURO: Yes.

2 MR. HINNEFELD: I'm just offering
3 this. By the system you have described, that
4 means that for any of these findings that we
5 have a PER on --

6 DR. MAURO: They are open for a
7 long time.

8 MR. HINNEFELD: -- they are open
9 for a long time, because how long will it take
10 the -- because it won't close until the
11 Procedure's Working Group reviews the specific
12 PER.

13 DR. MAURO: Closes it and then
14 comes back here again.

15 MR. HINNEFELD: Right. And then
16 closes it. And there have been so far 30
17 PERs. Now, about 10 or 12 of those don't
18 count, because they were early on and really
19 done far differently. But you are probably
20 talking about 15 or more PERs that were, you
21 know, done in this most recent round.

22 DR. MAURO: And the number of

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1 cases --

2 MR. HINNEFELD: Were done in this
3 fashion.

4 DR. MAURO: -- affected are
5 thousands.

6 MR. HINNEFELD: Thousands. But
7 that's not where I was going.

8 DR. MAURO: Okay.

9 MR. HINNEFELD: Because the
10 workload that I'm looking at is the
11 Procedure's Working Group, one by one, looking
12 at every one of those PERs --

13 DR. MAURO: Yes.

14 MR. HINNEFELD: -- and when they
15 have done -- when you have done the PER review
16 in the three cases and said okay, these are
17 good and going back and closing it, that's the
18 long process.

19 DR. MAURO: Yes.

20 CHAIR GRIFFON: Right.

21 MR. HINNEFELD: To close these.

22 If that's what you want to do --

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1 CHAIR GRIFFON: Well, what's the
2 alternative?

3 MR. HINNEFELD: The alternative is
4 not to --

5 CHAIR GRIFFON: Close them without
6 reviewing them?

7 MR. HINNEFELD: -- treat the
8 finding as a finding. When the technical
9 change that fixes the finding has been made,
10 the finding is closed.

11 CHAIR GRIFFON: But if you haven't
12 reviewed the technical change, how do you know
13 it's closed until you have agreed on the
14 change?

15 MR. HINNEFELD: Well, most --

16 CHAIR GRIFFON: Just to say
17 something is being changed --

18 MR. HINNEFELD: Well, in the case
19 of the -- the case of what we were just
20 talking about, the Savannah River Tool and the
21 DCF range, it's done. It's fixed. It's
22 changed. They have seen the new version.

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1 CHAIR GRIFFON: Exactly. I mean,
2 I don't even know how we get to this argument.

3 MR. HINNEFELD: Well, no. What we
4 just said. We said NIOSH agrees no effect on
5 case.

6 CHAIR GRIFFON: But your finding
7 is still like 105, you're saying, we're going
8 to keep these open, because we don't know how
9 to --

10 DR. MAURO: The only reason I
11 brought this up. Does this close?

12 MR. HINNEFELD: Well, for 105 it
13 wasn't a compensable claim. It wasn't --
14 that's why.

15 CHAIR GRIFFON: That's what I'm
16 saying.

17 MR. HINNEFELD: So you keep them
18 open.

19 CHAIR GRIFFON: Okay.

20 MR. HINNEFELD: Now, here is my
21 point.

22 CHAIR GRIFFON: Yes.

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1 MR. HINNEFELD: You're keeping
2 these findings open.

3 CHAIR GRIFFON: Right.

4 MR. HINNEFELD: Even though the
5 technical changes were made, they have seen
6 the new workbook. They know the technical
7 change. They know that finding has been
8 finished. Okay? And so they know the finding
9 has been finished, but still, the finding is
10 open, because the case --

11 CHAIR GRIFFON: Because you're
12 waiting for the PER.

13 MR. HINNEFELD: -- hasn't been
14 confirmed to your satisfaction. To me, it's
15 like another column. It's not a status column
16 on the finding.

17 CHAIR GRIFFON: All right.

18 MR. HINNEFELD: It's -- or you
19 keep track of the case. You don't keep track
20 of every one of those things that are open.

21 CHAIR GRIFFON: Well, that's what
22 I was saying. Should we have 105 --

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1 MR. HINNEFELD: I like the idea.
2 And whether you call it 105 --

3 CHAIR GRIFFON: Maybe we can think
4 about that, yes.

5 MR. HINNEFELD: -- or some other
6 structure, what I'm saying is you are going to
7 hold a lot of findings open when the technical
8 change that gave rise to that finding has been
9 corrected and we all agree it is corrected.

10 CHAIR GRIFFON: Right.

11 MR. HINNEFELD: That's what I'm --
12 that's my --

13 CHAIR GRIFFON: Well, that was
14 my -- I guess I just don't get the idea.

15 MR. HINNEFELD: I mean, that's
16 what I was trying to say before is maybe we
17 need a 105 and then all the points and we can
18 close a lot of the individual findings, but
19 the case remains positively open for
20 resampling over the PER.

21 MR. HINNEFELD: There is some
22 done.

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1 CHAIR GRIFFON: We still have to
2 worry about the case.

3 MR. HINNEFELD: Right, right,
4 right.

5 CHAIR GRIFFON: That's what I'm
6 thinking.

7 MR. HINNEFELD: Okay. We're in
8 agreement there. I'm not sure that's --

9 CHAIR GRIFFON: I didn't mean to
10 get so energized about this. It's really
11 against my style.

12 MR. HINNEFELD: I thought we had
13 been over that ground. I just wasn't sure I
14 had the solution. Like I'm not sure 105 is
15 the right way to do it in the database.

16 CHAIR GRIFFON: Yes, I'm not sure
17 how to do it --

18 MR. HINNEFELD: Yes.

19 CHAIR GRIFFON: -- exactly in the
20 database. But it concerns me there is going
21 to be a lot, you know.

22 MR. HINNEFELD: Oh, okay.

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1 CHAIR GRIFFON: And we are not --

2 MR. HINNEFELD: Well, I was
3 confused because this one I'm -- I thought we
4 were in agreement on this.

5 CHAIR GRIFFON: Yes.

6 MR. HINNEFELD: You were going --

7 CHAIR GRIFFON: I was thinking
8 back to the --

9 MR. HINNEFELD: I'm going back.

10 CHAIR GRIFFON: All right.

11 MR. HINNEFELD: And I will say
12 that we are not particularly timely in closing
13 all these findings. We have not in terms of
14 doing our part.

15 CHAIR GRIFFON: Right.

16 MR. HINNEFELD: But I don't like a
17 lot of open findings hanging out there. I
18 would like to have them to be closed and say,
19 okay, we are taking action in response to the
20 review we are seeing from the Advisory Board
21 and we're doing these things.

22 CHAIR GRIFFON: Right.

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1 MR. HINNEFELD: And as long as
2 these findings stay open like that, it doesn't
3 look like we are even doing anything about
4 what we are being advised.

5 DR. MAURO: It creates a false --
6 it's an optic that is a false optic.

7 CHAIR GRIFFON: Yes.

8 DR. MAURO: And the optics are
9 that we have all of this stuff and when the
10 reality of optics for all intents and purposes
11 is it's closed. If there is some way in which
12 you want to keep track of the fact that this
13 is a particular one to be closed as a result
14 of a PER process or whatever you want, that's
15 fine. That's just a record keeping issue.

16 CHAIR GRIFFON: Yes.

17 DR. MAURO: But to allocate it to
18 not -- to still being open is sort of unfair
19 to you.

20 MR. HINNEFELD: That's the way I
21 feel about it.

22 DR. MAURO: And I agree.

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1 MR. HINNEFELD: That's the way I
2 feel about it.

3 DR. MAURO: At the same time, you
4 want to make sure we know.

5 MR. HINNEFELD: I absolutely
6 understand making sure that the --

7 DR. MAURO: It creates another
8 problem though, another problem.

9 MR. HINNEFELD: John, you keep
10 thinking of problems.

11 DR. MAURO: I'm sorry. If there's
12 no problems, there's no challenge for Wanda.
13 I'm not being -- I'm trying to think of
14 solutions to tell you the truth.

15 MEMBER MUNN: Thank you, ladies
16 and gentlemen.

17 MR. HINNEFELD: What's one more,
18 yes, what's one more.

19 DR. MAURO: And the challenge
20 really is and it's unfortunate, the truth of
21 the matter is it was never the intention on
22 the part of the Procedure's Work Group

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1 necessarily to have its contractor review each
2 and every one of the PERs.

3 MEMBER MUNN: No.

4 DR. MAURO: Now, you are going to
5 have to do that.

6 MEMBER MUNN: No, contraire.

7 DR. MAURO: But no, now we have
8 just set up a system where that is going to
9 have to happen.

10 CHAIR GRIFFON: Okay. Yes, pretty
11 much, yes. Okay. Why don't we take a --

12 MEMBER MUNN: A break.

13 CHAIR GRIFFON: Can we take a
14 short break?

15 MR. KATZ: Yes.

16 CHAIR GRIFFON: 10 minutes.

17 MEMBER MUNN: Yes.

18 CHAIR GRIFFON: It seems like a
19 good point and then we will work until lunch--

20 DR. MAURO: It does.

21 CHAIR GRIFFON: -- or whatever.

22 MR. KATZ: 10 minutes, guys, 10

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1 minutes.

2 CHAIR GRIFFON: Yes. Okay. For
3 folks on the phone then, just a couple minutes
4 before 11:00, we will start back up.

5 (Whereupon, the above-entitled
6 matter went off the record at 10:45 a.m. and
7 resumed at 11:01 a.m.)

8 MR. KATZ: We are back on. This
9 is Ted Katz with the Subcommittee on Dose
10 Reconstruction review. Folks on the phone,
11 can you hear us?

12 MS. BEHLING: I can hear you.

13 MR. KATZ: Great, Kathy.

14 CHAIR GRIFFON: One person.

15 MR. KATZ: Okay.

16 CHAIR GRIFFON: There's a big
17 crowd out there.

18 MS. BEHLING: Thank you.

19 CHAIR GRIFFON: I've got to liven
20 these meetings up, you know, bring some live
21 entertainment or something. Okay. So after
22 that little sidebar on -- that's all right. I

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1 think where we stand on 106.4 then is that it
2 is still open, but it's being deferred to this
3 -- the Procedure's Group, TIB-54. TIB-54 is
4 that the right one? 54, TIB-54 for fission
5 product.

6 MR. SIEBERT: Yes, yes, that's the
7 correct one.

8 CHAIR GRIFFON: And understanding
9 that this was done prior to TIB-54, but, as
10 Stu said, the research around TIB-54 is how
11 they kind of answered it, you know.

12 MR. HINNEFELD: Yes, it is sort
13 of, but, I mean, there is more to our
14 response, I mean, about well, you know, we
15 only got so far and we stopped and that's the
16 claim.

17 CHAIR GRIFFON: Right, right.

18 MR. HINNEFELD: But this is sort
19 of a part and parcel of that same finding that
20 occurs in any other.

21 CHAIR GRIFFON: Yes.

22 MR. HINNEFELD: In many others.

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1 CHAIR GRIFFON: Yes.

2 MEMBER MUNN: TIB-54 is done,
3 isn't it?

4 DR. MAURO: The review?

5 MEMBER MUNN: Well --

6 DR. MAURO: Yes, the review is
7 done --

8 MEMBER MUNN: -- yes.

9 DR. MAURO: -- and delivered.

10 MEMBER MUNN: Yes.

11 DR. MAURO: Right.

12 CHAIR GRIFFON: Have we discussed
13 it on the work group? I can't remember.

14 MR. HINNEFELD: No.

15 DR. MAURO: No.

16 CHAIR GRIFFON: It's in the third
17 set, isn't it?

18 DR. MAURO: There are some issues.

19 CHAIR GRIFFON: Oh.

20 DR. MAURO: I mean, if it helps
21 any, it's second order issues, not big issues.

22 MR. HINNEFELD: Okay, that's good.

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1 CHAIR GRIFFON: So this could be
2 closed shortly, but, okay.

3 MEMBER MUNN: Well, not really
4 closed.

5 CHAIR GRIFFON: Not closed. No,
6 just transferred, right, for the meantime?
7 And then 107.1, okay, this is one of those
8 ones like, I think, 105.

9 MR. HINNEFELD: Yes.

10 CHAIR GRIFFON: And we will have
11 to work out a mechanism. I understand your
12 concern about having every finding listed as
13 redo case.

14 MR. HINNEFELD: Right.

15 CHAIR GRIFFON: But we have, it
16 looks like, a lot of agreement on the
17 individual findings, but the case is going to
18 be a rework, and we will have to design a
19 system in the database to maybe show that once
20 and not 10 times.

21 MR. HINNEFELD: Yes.

22 CHAIR GRIFFON: Or whatever.

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1 MR. HINNEFELD: Yes. 107.4 we
2 have --

3 CHAIR GRIFFON: Yes, I have that.

4 MR. HINNEFELD: -- some new
5 information.

6 CHAIR GRIFFON: Okay. I have SC&A
7 to review 107.4.

8 MR. HINNEFELD: Yes.

9 CHAIR GRIFFON: And you have new?

10 MR. HINNEFELD: Yes.

11 CHAIR GRIFFON: Okay.

12 MR. HINNEFELD: The easiest way
13 for me to distribute it would be to forward
14 what I got on it.

15 CHAIR GRIFFON: Okay. So we are
16 just getting that. You didn't send that
17 before?

18 MR. HINNEFELD: I didn't get it.

19 CHAIR GRIFFON: Oh, you didn't get
20 it.

21 MR. HINNEFELD: I didn't have it
22 until today.

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1 CHAIR GRIFFON: Sorry.

2 MR. HINNEFELD: I think it may not
3 be very helpful to discuss this today.

4 CHAIR GRIFFON: Yes, I know. I
5 know.

6 MR. HINNEFELD: Since we haven't
7 seen it before. But I will send it.

8 CHAIR GRIFFON: Why don't we just
9 move ahead and just say not appropriate?

10 MR. SIEBERT: I did this one and I
11 know Doug is going to have to look at it.

12 CHAIR GRIFFON: Okay. NIOSH
13 forwarding new info today. What's today's
14 date? Okay. So I have that you just
15 forwarded us information on that.

16 MR. HINNEFELD: Yes.

17 CHAIR GRIFFON: Okay. So I'm
18 going to move -- while Stu is doing that, I'm
19 just going to look at 107.5. I also have
20 agreement. And 107.6, I have SC&A to review.

21 Is that still --

22 MR. FARVER: Let me go down there.

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1 107.6.

2 CHAIR GRIFFON: Oh, no, no, you
3 did give us the review on that. And I have my
4 file note, 8/20/08, says, NIOSH agrees file
5 should have been included. Was this just a
6 matter of including the IMBA run?

7 MR. SIEBERT: Yes, this is where
8 we had to demonstrate that the environmental
9 dose was less.

10 CHAIR GRIFFON: Yes, okay.

11 MR. SIEBERT: In other words, if
12 the dose --

13 CHAIR GRIFFON: Right.

14 MR. SIEBERT: -- they don't
15 include it, but you don't know if it's X
16 millirem, unless you see the --

17 CHAIR GRIFFON: Right. SC&A
18 agrees with the technical aspects and NIOSH
19 agrees they should have posted that work, too.

20 MR. FARVER: This falls under the
21 question of what records should be included.

22 CHAIR GRIFFON: Included in the--

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1 yes.

2 MR. FARVER: So the overall
3 question comes up every now and then.

4 CHAIR GRIFFON: Okay. But it's
5 closed on this one.

6 MR. FARVER: Correct.

7 CHAIR GRIFFON: Right. Okay.
8 107.6 is closed. All right. Moving on. I've
9 got some homework to rewrite this matrix, I'll
10 tell you that. All right.

11 MEMBER MUNN: Yes, yes.

12 CHAIR GRIFFON: Now, 110, I think,
13 we have some new stuff on. I've been falling
14 down on the job. I apologize. Too many
15 matrices going, you know. I could do it when
16 it was one at a time.

17 MEMBER MUNN: Yes.

18 MR. HINNEFELD: 110 is in the same
19 thing I'm forwarding. 110.1.

20 CHAIR GRIFFON: Okay. So 110.1,
21 NIOSH is forwarding new info now.

22 MR. FARVER: So we're going to

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1 keep 110.1 open?

2 CHAIR GRIFFON: Yes.

3 MR. SIEBERT: Actually, this is
4 simple enough.

5 CHAIR GRIFFON: Oh, is it?

6 MR. SIEBERT: This one when we
7 were talking before --

8 MR. FARVER: This is the blanks
9 and zeros.

10 MR. SIEBERT: Blanks and zeros,
11 yes, that is in the dose reconstructor
12 instructions is where you read it. It is
13 written and we are going to be implementing it
14 into the TBD. It just has not happened yet,
15 since it is at Hanford.

16 MR. HINNEFELD: At Hanford there
17 is a lot.

18 MR. SIEBERT: A lot to include.

19 MR. HINNEFELD: There are a lot of
20 changes coming out.

21 MR. SIEBERT: A lot to include in
22 the TBD. What Stu just sent you, H4 outlines

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1 that and pulls the wording from the
2 instructions that specify it.

3 CHAIR GRIFFON: -- you have DR
4 Guidelines?

5 MR. SIEBERT: Right.

6 CHAIR GRIFFON: That specify this
7 and you are going to roll them into the TBD?

8 MR. SIEBERT: Correct.

9 CHAIR GRIFFON: Okay. I mean,
10 that's probably fine. You want to take one
11 final look at it?

12 MR. FARVER: I'll look at it, but
13 why don't we mark this one as closed and get
14 it off the books?

15 CHAIR GRIFFON: Yes. Well, all
16 right. I mean, it's not like we are down to
17 one finding to be closed.

18 MR. FARVER: Well --

19 CHAIR GRIFFON: There's still a
20 couple remaining. All right. So I'm going to
21 put NIOSH is adopting language from DR
22 Guidelines to be included in TBD.

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1 MEMBER MUNN: I think that NIOSH
2 was incorporating DR Guidelines in the TBD.

3 CHAIR GRIFFON: Incorporating,
4 that's better, yes. Thank you.

5 MEMBER MUNN: And the previous
6 note was that it was closed for our purposes
7 on this case, but NIOSH is checking that to
8 see if it's okay.

9 CHAIR GRIFFON: There is Guideline
10 1 in each. And then I'm going to put closed
11 on that. And I think Stu just sent it right
12 now, so if you see it, if you see it, Doug,
13 and you see any concerns while we are talking,
14 I can go back to that one. But I'm going to
15 close it otherwise. Okay.

16 110.2 then.

17 MEMBER MUNN: Seems closed to me.

18 MR. HINNEFELD: There has
19 certainly been a lot of discussion about it.

20 CHAIR GRIFFON: Yes, we have had a
21 lot on this one, yes. But I do have closed at
22 the end of the day here.

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1 MR. HINNEFELD: We closed it last
2 time.

3 CHAIR GRIFFON: Yes.

4 MR. HINNEFELD: Yes.

5 CHAIR GRIFFON: It looks like it
6 was closed last time. What is the basis of
7 the closure on this one? Did we reconcile
8 whether this person should have been monitored
9 for a new -- I think the question was the
10 areas they were working in, right, this
11 standard finding that we see once in a while?

12 MR. FARVER: Yes.

13 CHAIR GRIFFON: And did we
14 reconcile whether -- I mean, I'm not reading
15 through all this, but

16 MR. FARVER: Yes, it had to do
17 with the individual's work location and
18 whether they should have addressed this
19 neutron dose and it went back and forth and it
20 turns out that they did assess some kind of
21 neutron-based dose.

22 CHAIR GRIFFON: Well, I'm reading

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1 the last part of your -- the last part of the
2 resolution column says, while it may not be
3 appropriate to assign the full missed neutron
4 dose, we believe that he should be given the
5 benefit of the doubt in accordance with, you
6 know, these partial missed neutron dose.

7 MR. FARVER: Right. Then you
8 would jump back to column three.

9 MEMBER MUNN: Yes.

10 MR. FARVER: Under August 20, 2008
11 and then that was what they did.

12 CHAIR GRIFFON: Oh, so they did
13 that?

14 MR. FARVER: Yes.

15 CHAIR GRIFFON: Okay.

16 MR. FARVER: So it kind of jumps
17 back to it.

18 CHAIR GRIFFON: Which was done,
19 okay. Okay. All right.

20 MEMBER MUNN: That's 111.1?

21 CHAIR GRIFFON: So that is closed.

22 And NIOSH is on partial missed neutron dose.

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1 SC&A agrees. All right. 110.3, I have SC&A
2 agreement on this and that it is closed.

3 MR. FARVER: Is this 110.3?

4 CHAIR GRIFFON: Yes.

5 MR. FARVER: For the fission
6 product?

7 CHAIR GRIFFON: Is that what it
8 is?

9 MR. HINNEFELD: Yes. Yes, yes.
10 If think if you are -- are you reading off the
11 August 20th profile?

12 CHAIR GRIFFON: Yes, I am.

13 MR. HINNEFELD: Of Wanda of August
14 20th matrix? In the title it says updated by
15 OCAS August 20th.

16 Are you reading off that, Wanda?

17 MEMBER MUNN: No. I am reading
18 off my notes.

19 MR. HINNEFELD: Your notes. I
20 believe --

21 MEMBER MUNN: Of August 19th.
22 NIOSH agreed to forward the data, acceptable

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1 to SC&A, no further action.

2 MR. HINNEFELD: Yes, no further
3 action, right?

4 CHAIR GRIFFON: Yes.

5 MR. HINNEFELD: Yes, yes. That's
6 what we --

7 CHAIR GRIFFON: So it's closed.

8 DR. MAURO: This isn't one that is
9 referred to the TIB. It is --

10 CHAIR GRIFFON: No.

11 DR. MAURO: -- because it was
12 dealt with in the program already.

13 CHAIR GRIFFON: Yes.

14 DR. MAURO: Yes. So it was
15 unique.

16 CHAIR GRIFFON: Yes, yes. So it's
17 not the standard fission product.

18 DR. MAURO: This is not the
19 standard fission product.

20 CHAIR GRIFFON: Right, right,
21 right.

22 DR. MAURO: To be clear why we

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1 didn't close the other one.

2 CHAIR GRIFFON: All right. So
3 that's -- yes, that is no further action.
4 Okay. I'm up to 111.2 What happened to
5 111.1? 111.1 I have SC&A agreement on that.

6 MR. FARVER: Yes.

7 MEMBER MUNN: I agree.

8 CHAIR GRIFFON: Yes. 111.2, I
9 have NIOSH agrees to the purchase to modify -
10 - this is the organ selection thing, right?

11 MR. FARVER: Yes.

12 CHAIR GRIFFON: 112.1, TIB-18
13 review, procedures review is what I have.
14 That's 112.1.

15 MR. SIEBERT: This is when
16 compensable claims were used.

17 CHAIR GRIFFON: Oh, so this is a
18 compensable one.

19 MR. SIEBERT: Yes.

20 CHAIR GRIFFON: Okay. So still
21 put TIB-18 review, but I think it is closed
22 for this case, because it's a compensable one.

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1 MR. HINNEFELD: It was -- I think
2 this finding may have been about inappropriate
3 selecting it to use.

4 CHAIR GRIFFON: For our
5 compensable, right.

6 MR. HINNEFELD: Yes.

7 CHAIR GRIFFON: All right. We'll
8 put closed. I mean, there is no further
9 action on it.

10 MR. SIEBERT: Right, right.

11 CHAIR GRIFFON: So yes.

12 MR. HINNEFELD: I think that's
13 what this one is about.

14 MR. SIEBERT: It is, .1 and .2
15 we're all discussing. These are very
16 conservative and internal dose.

17 CHAIR GRIFFON: For?

18 MR. SIEBERT: For a compensable,
19 yes.

20 CHAIR GRIFFON: Yes, right.

21 MR. FARVER: This was a special
22 case.

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1 CHAIR GRIFFON: Right.

2 MR. FARVER: This was during the
3 time period when you were asked to expedite
4 some cases.

5 CHAIR GRIFFON: Right. Okay. So
6 but it's closed. Yes, 112.2 is the same way,
7 also closed. 113.1, this is a Y-12 case. The
8 first one is NIOSH agrees and TIB-8 has been
9 revised. And no effect on the case. And
10 that's true for 113.2 as well, 113.3 is the
11 organ selection thing, right? Oh, no for
12 medical dose, yes.

13 MR. HINNEFELD: Well, it was a
14 practice for a time like, to choose skin or
15 something.

16 CHAIR GRIFFON: Right.

17 MR. HINNEFELD: Non-compensable
18 case, because it's a high dose in the table.

19 CHAIR GRIFFON: Right, right.

20 MR. HINNEFELD: And we have since
21 told them they should knock that off.

22 CHAIR GRIFFON: Yes.

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1 MEMBER MUNN: No further action.

2 CHAIR GRIFFON: Yes, I said NIOSH
3 agrees the policy has been changed and that is
4 closed. 113.4 is -- well, what do you guys
5 have? I have --

6 MR. HINNEFELD: Based on our
7 response of 113.4, I think this is very
8 similar to, you know, philosophically, 113.3.
9 I believe the finding of -- I believe the
10 findings spoke to the fact that you should not
11 use the reactor non-uranium --

12 CHAIR GRIFFON: Right, right.

13 MR. HINNEFELD: -- facility for Y-
14 12. You should use the uranium non-reactor --

15 CHAIR GRIFFON: Right.

16 MR. HINNEFELD: -- facility. It's
17 a different suite of radionuclides. It must be
18 a TIB-2 intake.

19 CHAIR GRIFFON: Right.

20 MR. HINNEFELD: So it sounds like
21 whether it was intentionally done as an
22 impenetrable -- like using the skin or whether

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1 it was just a faux pas, it still has, you
2 know, the same.

3 CHAIR GRIFFON: The same.

4 MR. HINNEFELD: We agree it should
5 be closed.

6 CHAIR GRIFFON: No further action,
7 no effect on the case.

8 MR. HINNEFELD: Yes.

9 CHAIR GRIFFON: So it's closed.
10 Yes. Is that right, Doug? Are you --

11 MR. FARVER: I'm trying to catch
12 up to you.

13 CHAIR GRIFFON: Okay, sorry. I
14 saw a funny expression in your face. It
15 didn't look like agreement.

16 MR. FARVER: Well, it is and it
17 isn't. It is -- I agree that, yes, someone
18 basically clicked the wrong button.

19 DR. MAURO: This is denial, based
20 on the relative tool. Is that what you are
21 referring to?

22 MR. FARVER: No, this is whether

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1 to use the maximum exposure workbook.

2 MR. HINNEFELD: Yes, this is --

3 CHAIR GRIFFON: But it is a non --

4 DR. MAURO: And you used OTIB 2 as
5 maximizing approach of internal?

6 CHAIR GRIFFON: Correct.

7 DR. MAURO: The only problem was
8 which set of default set of radionuclides.

9 CHAIR GRIFFON: And it doesn't go
10 away. It doesn't mean that it's not still a
11 finding. It means we closed it out. It is
12 resolved, I mean.

13 MR. SIEBERT: Right. Because in
14 the response we said we actually --

15 CHAIR GRIFFON: Right.

16 MR. SIEBERT: -- what we assigned
17 -- seven rem when it should have been three,
18 basically.

19 MR. FARVER: Yes, and the only
20 thing that concerns me about things like this
21 is okay, but what's the corrective action to
22 keep it from happening again?

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1 CHAIR GRIFFON: Right.

2 MR. FARVER: Not so much for this
3 one, but I remember reading one where --

4 CHAIR GRIFFON: I think that's --
5 I have a QA note here. DR. MAURO: Any
6 situation like this, during the QA team
7 process --

8 CHAIR GRIFFON: Right.

9 DR. MAURO: -- Q-18 was looking at
10 the case and you do come across oh, it looks
11 like they used it, but it doesn't matter. You
12 know, still you're going to come up with the -
13 - an even lower dose as a result. It's still
14 non-compensable. Do you let it go or do you
15 try to fix it?

16 MR. HINNEFELD: Certainly, I don't
17 know what's done today -- Scott, you may
18 speak, because I rarely look at dose
19 reconstructions today. Years ago when we were
20 just getting going and we had this huge
21 backlog of dose reconstruction facing us, we
22 didn't correct this. We would not have

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1 corrected this. We would have said well, it's
2 not right that the dose is higher than it
3 should be and it's a non-compensable phase.
4 We're going to get it out.

5 So that was our normal mode of
6 operation in reviewing a case, these cases for
7 a while. I can't say on any given finding you
8 show me, was this our instruction when this
9 was -- when this one came through? I don't
10 know.

11 DR. MAURO: Has that changed, by
12 the way? I mean, are you now --

13 MR. HINNEFELD: It sounds like
14 what you are feeling --

15 DR. MAURO: The rationale is still
16 valid.

17 MR. HINNEFELD: The rationale is
18 still valid, except that we are a lot more
19 sophisticated now. We have a lot more
20 technical documents and can do things a lot
21 better now.

22 MR. SIEBERT: Well, you get so

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1 many more returns, it's much harder to explain
2 to a claimant the second time around.

3 MR. HINNEFELD: That's what
4 triggers --

5 MR. SIEBERT: Generally speaking,
6 we'll, if we see an error such as this, or
7 such as this magnitude, we go back. The peer
8 review will kick it back and say no.

9 MR. HINNEFELD: And I would think
10 we would --

11 MR. SIEBERT: And we would follow
12 it.

13 MR. HINNEFELD: And I think we
14 would --

15 DR. MAURO: So it's a matter of
16 good practice.

17 MR. SIEBERT: Yes.

18 DR. MAURO: Because of this return
19 process.

20 MR. SIEBERT: Yes, the return
21 issues.

22 DR. MAURO: Yes, right.

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1 MR. HINNEFELD: So what's the
2 issue?

3 MR. FARVER: Oh, well, I was just
4 thinking that even if you would look at it and
5 say well, yes, if it's not what we would do
6 now, but it doesn't matter in this case, an
7 overestimate.

8 MR. HINNEFELD: Is the reviewer at
9 least right?

10 CHAIR GRIFFON: That's what I was
11 going to ask. Is there a document trail in
12 there?

13 MR. FARVER: I know sometimes I
14 see comment forms.

15 MR. HINNEFELD: It can be. You
16 know, recall our review process has an
17 automated spread -- or automated checklist
18 that pops up 25 percent of the time. And that
19 pulls up the dose reconstruction. You're
20 required to fill out a checklist.

21 And in a situation like that, we
22 would expect them to document this had

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1 happened, you know, this occurred and it went
2 on. We sent it on anyway. I would expect
3 that to happen. I don't personally go back
4 and review those and see.

5 MR. FARVER: Now, sometimes there
6 is a comment form included in the records.

7 MR. HINNEFELD: Well --

8 MR. FARVER: And what comment form
9 is that?

10 MR. HINNEFELD: -- the comment
11 form, if it is a comment form where there is a
12 comment, a resolution, you get what I'm
13 saying?

14 MR. FARVER: Yes.

15 MR. HINNEFELD: That means that
16 case was reviewed by us and we didn't approve
17 it. We commented on it.

18 MR. SIEBERT: Reviewed by?

19 MR. HINNEFELD: And it went back
20 to the contractor to fix the comments we made.
21 That's their resolution, otherwise, we
22 wouldn't sign it.

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1 MR. SIEBERT: Or DOL returns the
2 case.

3 MR. HINNEFELD: Well, sometimes.

4 MR. SIEBERT: For some reason.

5 MR. HINNEFELD: Yes. If DOL
6 returns a case, that shows up back on our side
7 and so the mechanism we have adopted to send
8 it back to the contractor is to complete a
9 comment sheet. And the comment in this case
10 would be DOL returned the case because of an
11 additional cancer.

12 MR. FARVER: Right, yes.

13 MR. HINNEFELD: And that's the
14 only comment.

15 MR. FARVER: Now, for this
16 finding, would that possibly show up in the
17 NIOSH comment sheet?

18 MR. HINNEFELD: It would not on
19 the one you described.

20 MR. FARVER: Okay.

21 MR. HINNEFELD: If there is a
22 sheet, a different sheet, and I don't know

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1 where these are recorded.

2 CHAIR GRIFFON: Yes, I don't know.

3 MR. HINNEFELD: A different sheet
4 that pops up. It's in our -- it=s in the
5 procedure for dose reconstruction reviews,
6 it=s an attachment. It pops up on 25 percent
7 of the reviews and the dose reconstructor has
8 to complete that and it's a review checklist.
9 You know, was this done okay? Was this done
10 okay? Was this done okay?

11 MR. SIEBERT: And that's within
12 the NIOSH?

13 MR. HINNEFELD: That's within our
14 system. That's our system. So to be honest
15 with you, I don't see a compilation of those,
16 and so I don't know what they say.

17 MR. SIEBERT: Okay.

18 MR. HINNEFELD: I don't know. I
19 would think something like this would be
20 captured, but I don't swear to it.

21 DR. MAURO: I could say that when
22 I see a gross overestimate, I would not --

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1 quite frankly, I just presumed that this was a
2 shortcut that we decided to do, because we're
3 denying anyway. And I don't think they'll
4 find it.

5 MR. HINNEFELD: By and large, we--
6 you know, that's the way we have acted a long
7 time. Although as Scott mentioned, since so
8 many cases get returned for one reason or
9 another, if you've got a big overestimate in a
10 case and now you have got, you know --

11 DR. MAURO: A little overestimate.

12 MR. HINNEFELD: -- and now that
13 goes away, for instance, and for whatever --
14 for instance, a second cancer, you have a big
15 overestimate. And you have got a POC of like
16 40 percent or 42 percent and the person, you
17 know, brings in -- you know, there's a couple
18 more cancer diagnoses, you know, all of a
19 sudden --

20 DR. MAURO: Then you deal with it.

21 MR. HINNEFELD: At the same time,
22 a huge overestimate=s going to have over 50

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1 percent if a person overestimates.

2 DR. MAURO: I mean, the reality is
3 when you do the efficiency process, you leave
4 out -- I'll leave out the environmental dose.

5 I'll leave out the neutron, possible, neutron
6 contribution. I see it all the time.

7 MR. HINNEFELD: Yes, yes.

8 DR. MAURO: All right time. And I
9 look at it oh, no problem. Why should you
10 waste your time doing that calculation when,
11 you know, it's not really changing anything.

12 CHAIR GRIFFON: Right.

13 DR. MAURO: So I guess I don't --
14 but I can see the dilemma of you have to
15 revisit it and then sharpen your pencil.
16 Right now, is there --

17 MR. HINNEFELD: It's not only
18 dilemma on the work, it's a dilemma with the
19 communication to the public.

20 DR. MAURO: Oh, that's what I
21 mean. The dilemma --

22 MR. HINNEFELD: Right, right, yes.

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1 DR. MAURO: -- could be, you know,
2 troublesome. I know that we had -- there was
3 a Board meeting where they said don't do that
4 any more.

5 MR. HINNEFELD: Yes, yes.

6 CHAIR GRIFFON: In one of these
7 cases we are looking at, they are written up
8 as best estimates. They have been. Now, they
9 are getting much better about saying it is a
10 best estimate of the external and an
11 overestimate or a partial on the internal.

12 MR. SIEBERT: Well, that's a
13 change we made.

14 CHAIR GRIFFON: Yes, and that
15 helps out a lot.

16 MR. FARVER: That helps a lot,
17 yes.

18 MR. SIEBERT: Because then you can
19 say oh, yes, well, they left this --

20 MR. FARVER: Right.

21 MR. SIEBERT: -- out, because it
22 was a partial.

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1 DR. MAURO: I mean, that's always
2 clear when it's a partial. You can say you
3 left it out.

4 CHAIR GRIFFON: All right. Let's
5 go back to the -- I'm on 114. It's also a Y-
6 12.

7 MR. FARVER: Which one, No. 2,
8 114.2?

9 CHAIR GRIFFON: Yes. I have
10 114.1. I have NIOSH agreement on that.

11 MEMBER MUNN: No further action.

12 CHAIR GRIFFON: Right. 114.

13 MR. FARVER: 114.2. There was
14 another OTIB.

15 CHAIR GRIFFON: Yes. Where does
16 that stand? I have SC&A will review -- on
17 August 20th, yes.

18 MR. FARVER: Yes. Oh, yes, this
19 is related back to OTIB-17. And I went back
20 and looked at it and sent the email saying,
21 yes.

22 CHAIR GRIFFON: So you're okay.

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1 Okay. Your finding says 114.1, but you meant
2 .2, I think, in your email.

3 MR. FARVER: Yes.

4 CHAIR GRIFFON: That's fine. So
5 you have looked at OTIB-17 as it pertains to
6 this case and it's okay?

7 MR. FARVER: Correct.

8 CHAIR GRIFFON: Okay. What is
9 OTIB-17?

10 MR. FARVER: Shallow --

11 CHAIR GRIFFON: Shallow dose,
12 okay. So I guess we have got closure on that
13 one. SC&A agrees, then closed, no further
14 action. Right.

15 MR. FARVER: And what came out of
16 this? What came out of that finding was we --
17 it would be nice to have a list of all the
18 neutron areas in one spot, because there were
19 some conflicting tables in different
20 documents.

21 CHAIR GRIFFON: Now, this is the
22 tricky one here for me. Yes, I have NIOSH

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1 will revise the site profile and reevaluate
2 case if necessary. Now, this is one of those
3 that, you know, are we holding up the whole
4 case for --

5 MR. FARVER: This is fine. This
6 is a significant one, because --

7 CHAIR GRIFFON: Well, here is --

8 MR. FARVER: Yes.

9 CHAIR GRIFFON: Yes.

10 MR. FARVER: Here is what the --
11 how that would work. Is that there are two
12 documents, as I've pointed out, that give
13 different descriptions of neutron areas.

14 CHAIR GRIFFON: Right.

15 MR. HINNEFELD: Something called
16 Report 33 or something and the other is the
17 site profile.

18 CHAIR GRIFFON: Right.

19 MR. HINNEFELD: And you know,
20 Mark, that there are some site profile issues
21 hanging around out there from the SET review.

22 CHAIR GRIFFON: Right, right,

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1 okay.

2 MR. HINNEFELD: So that is on --
3 that work is underway. And it's in our
4 project planning schedule. I'm not sure what
5 it is scheduled for, but it is in our project
6 plan and this specific item to resolve this
7 difference between the site profile and the
8 Report 33, it's one of the action items on the
9 list.

10 So if now when that resolution is
11 made, then if it turns out that we will have
12 to identify cases that were done in the report
13 -- if the Report 33 was wrong and we're going
14 to stay with what the site profile said, that
15 means we will have to identify cases done with
16 Report 33 and reconsider those.

17 If Report 33 is right and the site
18 profile is wrong, then we have to find the
19 cases on the site profile and reconsider
20 those. Now, if there -- if we decide that
21 neither one is exactly right on the third
22 number, that makes it actually kind of easier

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1 to find the case.

2 So you know, that's going to be
3 the kind of the outcome, but, you know, so
4 however you want it.

5 MEMBER MUNN: Our time right now,
6 site profile tracking on the issue is
7 continuing, right?

8 CHAIR GRIFFON: Right, right.

9 MEMBER MUNN: Okay.

10 CHAIR GRIFFON: Although that Y-12
11 -- I don't even know if it is listed as a work
12 group any more, but it should be, because it's
13 low --

14 MR. HINNEFELD: On my books it is
15 actually --

16 CHAIR GRIFFON: -- site profile
17 issues.

18 MR. HINNEFELD: There is.

19 CHAIR GRIFFON: Right.

20 MR. HINNEFELD: And we know there
21 is work to do on it. As a matter of fact, the
22 work is under way.

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1 CHAIR GRIFFON: Okay. 114.4 then.

2 DR. MAURO: We agree, closed.

3 CHAIR GRIFFON: SC&A concurs,
4 that's what I've got. All right. And 114.5,
5 NIOSH agrees should have used personal data,
6 SC&A agrees with NIOSH that they were, I can't
7 read my own writing --

8 MR. FARVER: That had to do with
9 using coworker data.

10 CHAIR GRIFFON: Yes.

11 MR. FARVER: Instead of the actual
12 bioassay data. And the last part of that was
13 follow-up to an incident that was identified
14 in the CATI report.

15 MEMBER MUNN: My last note says
16 SC&A agrees with the response of 8/20/08,
17 we=re closed.

18 MR. FARVER: Yes, that's the
19 bottom line.

20 MEMBER MUNN: Yes.

21 MR. FARVER: After going back and
22 forth a couple of times.

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1 CHAIR GRIFFON: Where is your note
2 on -- what --

3 MEMBER MUNN: My note says SC&A
4 agrees with the response of 8/20/08, we=re
5 closed.

6 CHAIR GRIFFON: I think you are
7 right. I have a note of mine, something here
8 says that SC&A agrees with NIOSH that they
9 were comparing excursion data with intake
10 data. I think that was a mistake initially
11 that you were making in your assessment.

12 MR. FARVER: Yes.

13 CHAIR GRIFFON: And once you
14 resolved that, you were okay with it, right?

15 MR. FARVER: Yes. The gist of it
16 was there was bioassay data for the individual
17 and they were using coworker data.

18 CHAIR GRIFFON: Okay.

19 MR. FARVER: And --

20 CHAIR GRIFFON: All right. But
21 SC&A is in agreement with that?

22 MR. FARVER: Correct.

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1 CHAIR GRIFFON: And that's closed,
2 okay. In the middle of this thing, although I
3 just said it's closed, in the middle of this
4 response, I underlined this note that says the
5 results range from -5 to 76. Clearly, this is
6 not consistent with the coworker data.

7 MR. FARVER: And that's where I
8 was --

9 CHAIR GRIFFON: You were comparing
10 the wrong --

11 MR. FARVER: -- misinterpreting
12 the coworker data.

13 CHAIR GRIFFON: Okay. That's
14 fine. Okay. Okay. I just want to tie those
15 to the others. If someone is reviewing this
16 and sees that inconsistency, I think it would
17 be -- well, it was just confusing to me.
18 Okay. 115.1.

19 MEMBER MUNN: I have presentation
20 of the Board complete, was closed.

21 MR. HINNEFELD: Yes, we agreed
22 with the finding.

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1 CHAIR GRIFFON: NIOSH provided QC
2 presentation, yes.

3 MEMBER MUNN: Um-hum.

4 CHAIR GRIFFON: Yes, and this gets
5 back to the QA question, but we are getting
6 updates on that, so I think the finding for
7 that case is closed, right?

8 MEMBER MUNN: Yes.

9 MR. HINNEFELD: Right.

10 CHAIR GRIFFON: Okay. 116.1, this
11 is an X-10 case. I have NIOSH agrees, TIB-8
12 revised, PROC review. And that's for 1 and 2.

13 MR. HINNEFELD: 1 and 2, yes.

14 CHAIR GRIFFON: Yes, that's
15 standard. 116.3, NIOSH agrees, policy was
16 revised, that's for -- that=s the standard one
17 we have talked about. 116.4, same thing,
18 agrees, policy was revised, that=s the
19 selecting of the organ, right?

20 MR. HINNEFELD: Yes, in this case,
21 they selected the organ.

22 CHAIR GRIFFON: Right.

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1 MR. HINNEFELD: Organ -- colon was
2 the organ.

3 CHAIR GRIFFON: Right.

4 MR. HINNEFELD: -- earliest tool,
5 that was the only option.

6 CHAIR GRIFFON: Yes.

7 MR. HINNEFELD: And then at other
8 times it has when other options became
9 available it was sometimes called on and we
10 said, hey, use the right one.

11 CHAIR GRIFFON: Yes, okay. So
12 they are all closed.

13 MR. SIEBERT: Yes.

14 CHAIR GRIFFON: That entire case
15 is closed, that's good. 117.1, this is a TIB-
16 18, TIB-33 PROC review is what I have. Was
17 this a compensable one, Scott?

18 MR. SIEBERT: Yes, yes.

19 CHAIR GRIFFON: So this is a
20 question of using it for compensable, so it's
21 basically closed, but it is -- is that right?

22 MR. FARVER: Yes, because this was

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1 during that time period when they were asked
2 to expedite cases.

3 CHAIR GRIFFON: Yes.

4 MR. FARVER: So they used what
5 they had.

6 CHAIR GRIFFON: So it's closed.
7 No action on that case. TIB-18 and 33 are
8 being reviewed with other ones. Okay. 118.1.

9 MR. FARVER: This was left with
10 the action on our part to go back and review a
11 few files, I believe. But anyway we did that
12 and we agree with their response.

13 CHAIR GRIFFON: Let's go to their
14 email. Can you just go over what you have in
15 your email?

16 MR. FARVER: If I can find it.

17 CHAIR GRIFFON: Buy me some time
18 to catch up. Okay.

19 MR. FARVER: Having to do with the
20 -- looking at dosimetry records, handwritten
21 records, I believe, and misinterpreting what
22 we thought was 15,000, which was later shown

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1 to be a 13 and then -- a reason code of 13 and
2 a beta dose of 0000, which the way it was
3 handwritten and not very legible, looked like
4 15,000.

5 CHAIR GRIFFON: Oh, okay. So you
6 -- but you are comfortable with NIOSH's
7 interpretation of that?

8 MR. FARVER: Yes.

9 CHAIR GRIFFON: Right? Okay.

10 MR. FARVER: And then there was
11 another dose.

12 CHAIR GRIFFON: So it wasn't
13 really a --

14 MR. FARVER: No.

15 CHAIR GRIFFON: A recorded at
16 15,000 millirems?

17 MR. FARVER: No, but it was very
18 difficult to --

19 CHAIR GRIFFON: Code 13 and zeros
20 and it looked, yes, very similar.

21 MR. FARVER: And we want to do
22 that on a lot of these older records that are

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1 handwritten and, you know, microfiched.

2 CHAIR GRIFFON: Right.

3 MR. FARVER: And they are just not
4 very clear.

5 CHAIR GRIFFON: And then this last
6 technical issue you are raising, this is a
7 technical issue that may need to be addressed
8 by a different work group. What's -- it's
9 just a question of the film -- the linearity?

10 MR. FARVER: Yes.

11 CHAIR GRIFFON: But I mean, is
12 that a specific type of film that was used at
13 INEL or is that used at many sites? I'm not
14 sure.

15 MR. HINNEFELD: 508, I think.
16 558, I think, is pretty standard.

17 CHAIR GRIFFON: 558 is pretty
18 standard, wasn't that? Yes. This hasn't been
19 raised before though really, that I remember.

20 MR. FARVER: I don't believe it
21 has. It has to do with this film and that
22 dose range and what's the linearity?

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1 CHAIR GRIFFON: Oh, in higher dose
2 ranges.

3 MR. FARVER: Correct.

4 CHAIR GRIFFON: Yes.

5 MR. FARVER: Normally, we don't
6 talk about just having --

7 CHAIR GRIFFON: Right, right,
8 right, yes.

9 MR. FARVER: -- film badge.

10 CHAIR GRIFFON: So it seems like
11 you have closed part of it, but you are
12 keeping that aspect?

13 MR. FARVER: Well, I guess we
14 are --

15 CHAIR GRIFFON: I guess you still
16 are --

17 MR. FARVER: -- bringing that
18 issue to your attention.

19 CHAIR GRIFFON: Yes.

20 MR. FARVER: I could say most of
21 the time, they are not going to see the 7,000
22 millirem --

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1 CHAIR GRIFFON: Right, right.

2 MR. FARVER: -- on the film badge.

3 CHAIR GRIFFON: Right.

4 MR. FARVER: So it may not be an
5 issue most of the time.

6 CHAIR GRIFFON: Yes. But when you
7 see it, it could be a pretty significant
8 aspect of a DR, I guess, you know, here.
9 Getting those higher numbers. I don't know if
10 -- have you guys looked at this NIOSH? Looked
11 at this?

12 MR. HINNEFELD: I don't think we
13 have actually looked at that one particularly,
14 quite honestly. So I guess we can.

15 CHAIR GRIFFON: Yes, I think we
16 should at least pursue that question and if
17 there is a simple explanation.

18 MR. FARVER: And for this case it
19 might not make any difference.

20 CHAIR GRIFFON: Right.

21 MR. FARVER: Because it looks like
22 they are still maximizing assumptions and

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1 there still was a, you know, less than 50
2 percent.

3 CHAIR GRIFFON: Right, right,
4 right.

5 MR. HINNEFELD: If, in fact, you
6 know, I mean, you're talking about another
7 work group, I mean, if you were going to
8 transfer it, it sounds like it's Idaho Falls,
9 right?

10 CHAIR GRIFFON: I&E, yes, but
11 that's why I asked -- generic film, so it
12 might cut across --

13 MR. HINNEFELD: It might be more
14 generic, I guess.

15 CHAIR GRIFFON: Yes.

16 MR. HINNEFELD: It says it was a
17 combination of 508 and a high of 1290. And I
18 know very little about film.

19 CHAIR GRIFFON: Yes, me, too.

20 MR. HINNEFELD: So I'm not much --
21 I can't help out so much here. We do have
22 people who do know a fair amount about it, I

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1 think.

2 CHAIR GRIFFON: Yes.

3 MR. HINNEFELD: So we can maybe
4 chase this down a little bit. And it sounds
5 like, then, this would be -- it would have to
6 be a general warning or admonition about using
7 the data from, I don't know, Drawing L and
8 what kind of ranges is it good for.

9 CHAIR GRIFFON: Right.

10 MR. HINNEFELD: I mean, based on
11 the dosimeter they had. Is there a limitation
12 on the range when you can feel like the
13 dosimetry was done --

14 MR. FARVER: If you go back to our
15 draft report --

16 CHAIR GRIFFON: Um-hum.

17 MR. FARVER: -- there is a figure
18 one and then it shows the dose response.

19 CHAIR GRIFFON: Okay.

20 MR. FARVER: For those types of
21 film pulled from an NRC document.

22 MEMBER MUNN: Oh, boy.

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1 CHAIR GRIFFON: I think we need to
2 give this -- what item? Doug, can I ask you
3 which item, which finding do you think this
4 best fits under? Because you said 118.1, but
5 I guess that would be best under 118.1, huh?

6 MR. FARVER: Yes.

7 CHAIR GRIFFON: And then what
8 happens to 118.2 through 7? Because I mean, I
9 think we could say, you know, under 118.1 it
10 looks like you resolved the question about the
11 interpretation of the recorded dose, but you
12 have a remaining question about the linearity
13 of the film and higher dose records.

14 MR. FARVER: Yes. I will keep
15 that one open.

16 CHAIR GRIFFON: Right, okay. Let
17 me get that down.

18 MEMBER MUNN: Would someone like
19 to articulate for me what notation should go
20 in here, because I don't --

21 CHAIR GRIFFON: Well, that's what
22 I'm saying. It's kind of like a split

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1 finding, Wanda, in my opinion. SC&A accepts
2 the interpretation of the dose measurements
3 was correct. However, they have remaining
4 concerns about the linearity of the film
5 dosimeters.

6 MR. FARVER: In that range.

7 CHAIR GRIFFON: In that higher end
8 dose range, right.

9 DR. MAURO: All right. So I'm
10 looking at this graph of this -- go back to
11 Health Physics 101. So what we have is it
12 looks like a fairly linear response with the
13 508 film badge over a range of doses from 1 to
14 what 5, 3, 1, 2, 3, 4, 5 rem and then after
15 that the linearity starts to change so that
16 you don't -- if you are in that region, if you
17 are in the -- if you get -- as the doses go
18 higher, you are in a non-linear range, so how
19 do you -- is that the concern?

20 MR. FARVER: I believe so.

21 DR. MAURO: Yes no --

22 MR. HINNEFELD: I mean, also,

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1 well, if it is -- it would speak to the
2 calibration.

3 DR. MAURO: Even over, receiving
4 all the distant -- according to this here, the
5 optical density starts to flatten out. If the
6 doses go up, the optical density don't -- let
7 me see. Yes, as the doses go higher, the
8 optical density does not go up in proportion.
9 So that=s going to underestimate.

10 MR. HINNEFELD: Okay and
11 essentially, it's a question for the
12 calibration procedures.

13 DR. MAURO: And how do they deal
14 with that?

15 MR. HINNEFELD: Did their
16 calibration curve include that.

17 CHAIR GRIFFON: Yes.

18 DR. MAURO: Did they actually have
19 like on his graph have like a section where
20 508 works? The 508 component of the badge and
21 then they have another section with a
22 different component -- yes, I can see why this

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1 would be an issue, yes, I think we should B-
2 it=s worth B- yes.

3 MR. HINNEFELD: But, I mean, we can
4 check into it and see what, you know, see what
5 they did.

6 MEMBER MUNN: This high reading
7 was a result from an incident back in '58, or
8 something?

9 MR. FARVER: Yes.

10 MEMBER MUNN: Okay.

11 DR. MAURO: Yes.

12 MEMBER MUNN: So --

13 MR. HINNEFELD: In March? I
14 thought I saw one --

15 MEMBER MUNN: No.

16 MR. HINNEFELD: Because I saw one
17 was 1958. But that one was from January.

18 CHAIR GRIFFON: It was related to
19 SL-1.

20 MR. HINNEFELD: Pardon?

21 DR. MAURO: Yes, this is March 25,
22 '58.

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1 CHAIR GRIFFON: Okay. So 118.1
2 remains open on that regard, on that part.
3 Solve the record interpretation question, but
4 remaining issue on the linearity of the film
5 badge at that higher end of exposure. Is that
6 fair?

7 MR. FARVER: Yes.

8 CHAIR GRIFFON: Okay.

9 MEMBER MUNN: And so the action
10 is?

11 CHAIR GRIFFON: That is it open.
12 NIOSH is going to look into that.

13 MR. HINNEFELD: We are going to
14 provide additional response regarding the
15 linear question.

16 CHAIR GRIFFON: And I guess you
17 are saying it's spelled out a little more in
18 the detailed write-up of the finding, right?
19 Other things are included.

20 MR. HINNEFELD: I'm sure it is.
21 Yes, I'm sure it is.

22 CHAIR GRIFFON: Yes.

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1 MR. HINNEFELD: The detailed
2 write-ups are included.

3 CHAIR GRIFFON: Yes.

4 MR. HINNEFELD: In general order.

5 CHAIR GRIFFON: Yes, okay.
6 Sometimes we work from the matrix and lose
7 sight of it then.

8 MR. HINNEFELD: Yes.

9 CHAIR GRIFFON: Okay.

10 MR. FARVER: That's why I always
11 have to go back.

12 CHAIR GRIFFON: I know, I know.

13 MEMBER MUNN: That's in the
14 original documentation.

15 CHAIR GRIFFON: Yes. Now, what is
16 this -- 118.2? Yes, that's .1. Now, I'm
17 moving on to 118.2.

18 MR. FARVER: .2. Oh, work at ANL
19 West.

20 CHAIR GRIFFON: And there is no
21 records, right?

22 MR. FARVER: No records.

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1 CHAIR GRIFFON: So that question,
2 I have it looped for all these, ANL West
3 missing records.

4 MR. FARVER: Correct.

5 CHAIR GRIFFON: For 118.2 through
6 7. So what are we -- what's the status on
7 that, then?

8 MR. HINNEFELD: I believe we are
9 checking it.

10 CHAIR GRIFFON: Okay. I didn't
11 know. I didn't have an action written. Yes,
12 we are checking with our point of contact.
13 And in fact, Brad commented that there was a
14 period of time when people were saying their
15 records went to Argonne in Chicago. My
16 understanding at the time we had that
17 discussion was that INEL has -- had obtained
18 all those, and has the complete records, and
19 were providing the complete records for
20 Argonne West. However, that's what we are
21 chasing down now.

22 MR. SIEBERT: The other question

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1 was whether it was going to be -- whether they
2 were going to be redacting that information
3 when they send it to us or not.

4 MR. HINNEFELD: That's right.
5 Yes, we want to make sure we had the complete
6 record of that work at Argonne.

7 MEMBER MUNN: I don=t know, if it
8 says we may need a comment on the site profile
9 about ANL West as well as INEL.

10 MR. FARVER: Yes, I remember that
11 conversation we had about where the actual
12 doses are kept.

13 MEMBER MUNN: NIOSH=s action.

14 CHAIR GRIFFON: So for all those
15 it's NIOSH action, right.

16 MR. FARVER: Yes, they are all
17 related.

18 CHAIR GRIFFON: We can't really go
19 any further.

20 MR. FARVER: ANLW.

21 CHAIR GRIFFON: Then are we onto
22 119, based on that, because they all -- I

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1 guess we might have to revisit the individual
2 responses for those items, but until we see if
3 there is any ANL West records, I don't know if
4 we would be doing these twice, you know what I
5 mean?

6 MEMBER MUNN: Yes.

7 CHAIR GRIFFON: Or I don't know.

8 MR. FARVER: Well, we can go and
9 knock out like 118.6, and go on with some of
10 the 118s from the internal side.

11 CHAIR GRIFFON: Yes, because
12 that's for 58.

13 MR. FARVER: Right.

14 CHAIR GRIFFON: Would he have been
15 working at both places in that year, or
16 potentially?

17 MR. FARVER: No, that was an
18 incident, and it was -- had to do with how
19 they calculated dose from the incident, I
20 believe.

21 CHAIR GRIFFON: Is that for the
22 SL-1 incident?

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1 MR. HINNEFELD: Which one are we
2 talking about?

3 MR. FARVER: 118.6.

4 CHAIR GRIFFON: 118.6.

5 MR. FARVER: This is another one
6 of those where, if you go back and look at our
7 original report, there=s more information.
8 And this was the one, Stu, that you sent us a
9 lot of files to look at recently.

10 MR. HINNEFELD: Yes.

11 CHAIR GRIFFON: This is the one
12 where the -- Stu was messing with this in the
13 matrix, too. They are shifted, aren't they,
14 the responses?

15 MR. FARVER: They are, so there is
16 some --

17 CHAIR GRIFFON: I have a note
18 here. It's 118.6(g)(3), and it=s really the
19 response to 118.5(f)(2). So they kind of
20 shifted down, I think, or something.

21 MR. FARVER: Okay.

22 CHAIR GRIFFON: Anyway --

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1 MR. FARVER: Anyway, we looked at
2 these on the NIOSH responses to this finding,
3 and we understand what they did and why they
4 did it.

5 MEMBER MUNN: So you feel like we
6 can close this?

7 MR. FARVER: We can close, yes.
8 Whatever the real number of that finding is.

9 MEMBER MUNN: It's 1958 internal
10 dose.

11 MR. FARVER: It's that one, yes.

12 MEMBER MUNN: That one.

13 MR. FARVER: Okay.

14 MS. BEHLING: Excuse me, this is
15 Kathy. On that particular finding, I believe
16 also on the internal, in 1958, there were --
17 there was a secondary record that had a
18 different urinalysis number on it, then a
19 primary record. And once that was pointed
20 out, I think when we initially calculated our
21 internal dose, we used the secondary record,
22 not recognizing that it was different from the

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1 primary. And so that was part of this
2 particular finding. And now that that was
3 resolved, we agree with NIOSH's evaluation.

4 CHAIR GRIFFON: Where is this
5 response for 118.6? Stu, do you know how it
6 starts? Because, like I said, these have been
7 shifted around, and I'm getting confused which
8 ones are the response to which. Maybe it
9 actually is --

10 MR. HINNEFELD: I think what
11 happened was --

12 CHAIR GRIFFON: Because it starts
13 off saying NIOSH is requesting clarification
14 on this, because it appears to be imply that
15 NIOSH is required to use the highest dose
16 calculated from an individual sample.

17 MR. HINNEFELD: No, I think it's
18 118.

19 CHAIR GRIFFON: Because this goes
20 on to say, I think what Kathy was saying, the
21 1453, the 1.453 rem calculated by the auditor
22 was based on an incorrect sample collection

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1 date.

2 MR. HINNEFELD: Yes.

3 CHAIR GRIFFON: I don't know.

4 MR. HINNEFELD: The response, as
5 near as I can reconstruct, the response that I
6 put in 118.6 actually pertains to 118.5.

7 CHAIR GRIFFON: Right.

8 MR. HINNEFELD: Because if you
9 look at the --

10 CHAIR GRIFFON: I have that.

11 MR. HINNEFELD: -- response to
12 118.5, it's not even --

13 CHAIR GRIFFON: Now, where is the
14 real response to 118.6? It's just shifted
15 down one? Do you think?

16 MR. HINNEFELD: I believe that=s
17 what happened.

18 MR. FARVER: I believe so.

19 CHAIR GRIFFON: I think so. Okay.

20 MR. FARVER: Because in our draft
21 case, I believe, we had a finding about ambien
22 dose.

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1 CHAIR GRIFFON: Yes.

2 MR. FARVER: That we didn't --

3 CHAIR GRIFFON: It wasn't in the
4 file.

5 MR. FARVER: It wasn't in the
6 file, correct.

7 CHAIR GRIFFON: And so, see if you
8 read the finding in 118.7, it's just sort of a
9 summary of the information from the earlier
10 findings. So it's sort of a summary kind of
11 finding, but the response column is a very
12 specific response that relates to the previous
13 findings.

14 So I think .6 and .7 are -- the
15 responses are -- in .6 and .7 are actually
16 numbered one too high. They should be --

17 CHAIR GRIFFON: Shifted down.

18 MR. FARVER: -- .5 and .6.

19 CHAIR GRIFFON: Okay.

20 MEMBER MUNN: Now, did we receive
21 your comments in the separate --

22 CHAIR GRIFFON: Yes.

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1 MEMBER MUNN: I seem not to have
2 transferred it appropriately to the matrix I'm
3 looking at.

4 MR. HINNEFELD: Well, I'm trying
5 to figure out what I did after August 20th. I
6 don't know the date when I transmitted --

7 MEMBER MUNN: That's okay.

8 MR. HINNEFELD: -- the responses,
9 but there are -- we're not on 110, we're on
10 118.

11 MEMBER MUNN: 118. Let me see if
12 I can find it.

13 MR. HINNEFELD: Okay.

14 MEMBER MUNN: But was it fairly
15 recent?

16 MR. HINNEFELD: I don't believe it
17 would have been very recent.

18 MEMBER MUNN: But since, following
19 our last meeting, which would be some time
20 between August --

21 MR. HINNEFELD: Yes, I believe so.

22 MEMBER MUNN: Okay. I'll take a

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1 look.

2 CHAIR GRIFFON: So, Doug, you're
3 looking at this whole response, and this is
4 the one, you've run this. I think in the
5 middle of it, NIOSH was asking to see your
6 number runs to see how you were getting your
7 numbers, and I think you shared files, right,
8 or maybe not.

9 MR. FARVER: I don't remember,
10 Mark.

11 CHAIR GRIFFON: Do you remember if
12 it was this one that we did?

13 MR. HINNEFELD: I know we did that
14 on one.

15 MR. FARVER: Yes.

16 MR. HINNEFELD: 118.6 and 118.7.

17 CHAIR GRIFFON: And this is like a
18 seven page response here.

19 MR. HINNEFELD: Yes.

20 CHAIR GRIFFON: So I think, you
21 know, I don't want to just close this out
22 until we're sure of what we're looking at.

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1 MR. FARVER: Is that something I
2 wrote?

3 CHAIR GRIFFON: No, this is --

4 MR. HINNEFELD: We wrote a long
5 response.

6 MR. FARVER: Okay.

7 CHAIR GRIFFON: Can I ask, you
8 know, just for the sake of this meeting, can I
9 ask that Stu and Doug or whoever get together
10 on this off-line, and you know, we can figure
11 out where we are at on this, because it's a
12 long response and I think --

13 MR. FARVER: The files were
14 exchanged.

15 CHAIR GRIFFON: I can't find them
16 right now.

17 MR. FARVER: No.

18 CHAIR GRIFFON: I don't want to
19 jump the gun, but it looks like you are in
20 agreement, but let's just make sure.

21 MR. FARVER: Yeah, yeah.

22 MR. FARVER: Stu sent files.

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1 CHAIR GRIFFON: Right.

2 MR. FARVER: We reviewed those and
3 we have all been -- I know it has --

4 CHAIR GRIFFON: Yes. But let's
5 just make sure, double check that one. And
6 the other ones were waiting on ANL, I think.

7 MR. FARVER: Yes.

8 CHAIR GRIFFON: So we'll move on
9 to 119, if that's okay. And before the next
10 meeting in January, it looks like I'll refresh
11 the matrix, because this thing has shifted,
12 too.

13 MR. FARVER: Yes.

14 CHAIR GRIFFON: So I've got to get
15 that all straightened out, because the
16 responses are shifted down one, and it's very
17 confusing to look at.

18 MEMBER MUNN: Yes, we only need to
19 be --

20 CHAIR GRIFFON: There's no
21 resolutions in it at all really in the
22 electronic copy.

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1 MS. BEHLING: I believe that=s due
2 out November 13th. I think I just found it,
3 November 13th.

4 MR. HINNEFELD: November 13th is
5 when I sent them?

6 MS. BEHLING: Yes, but I don't
7 think you sent it to everyone. I'm not sure.

8 MR. HINNEFELD: Okay.

9 MS. BEHLING: I had it from Doug.

10 MR. HINNEFELD: Okay.

11 MS. BEHLING: So you may have only
12 sent it to Doug.

13 CHAIR GRIFFON: We=ll follow-up on
14 that.

15 MR. HINNEFELD: I'll follow-up on
16 that here at lunch time.

17 CHAIR GRIFFON: Let's try to get
18 through these, if you don't mind, just the
19 next couple. We've got two more cases, right?

20 Hopefully, we can get rid of these before
21 lunch. 119.1 is a Mound case. It was a
22 compensable underestimate. The first one I

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1 have agreement, no effect on case. Do you
2 agree with that?

3 MEMBER MUNN: Yes.

4 CHAIR GRIFFON: 119.1?

5 MR. FARVER: Yes.

6 CHAIR GRIFFON: 119.2 I have
7 compensable claim, no action on case.

8 MR. FARVER: 119.2?

9 CHAIR GRIFFON: Yes.

10 MR. FARVER: Yes.

11 MEMBER MUNN: NIOSH will present on
12 QA program.

13 CHAIR GRIFFON: That's right,
14 that's right.

15 MR. FARVER: Another QA issue.

16 CHAIR GRIFFON: NIOSH presented on
17 QA program.

18 MR. FARVER: With 103 millirem
19 instead of 1830 millirem.

20 CHAIR GRIFFON: Right, right,
21 right. 119.3, I have, again -- I just have no
22 further action. I'm not sure why.

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1 MR. SIEBERT: It's the same as
2 1.1.

3 CHAIR GRIFFON: Okay.

4 MR. SIEBERT: We agreed.

5 CHAIR GRIFFON: Okay.

6 MEMBER MUNN: And SC&A reviewed
7 the agreement.

8 CHAIR GRIFFON: Okay. Yes, it's
9 compensable, no further action, right. Okay.
10 Then 120.1 is a best estimate Mound case. I
11 have, NIOSH agrees, will review boiler plate
12 language. This must be on the --

13 MR. SIEBERT: Yes, this was in the
14 dose reconstruction report.

15 CHAIR GRIFFON: Yes, in the
16 report.

17 MR. SIEBERT: Midpoint of the
18 distribution, BCS was reported as opposed to
19 it was actually the full range was used in the
20 Monte Carlo calculation.

21 CHAIR GRIFFON: Okay. And you're
22 not sure how to convey that in language that

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1 people can understand, right?

2 MR. SIEBERT: Yes.

3 CHAIR GRIFFON: Yes.

4 MR. SIEBERT: I'm not even sure I
5 understand what I just said.

6 MEMBER MUNN: I agree.

7 CHAIR GRIFFON: That came out
8 pretty good, actually. But it's closed for
9 this case. I think we can all agree that it's
10 closed for this case.

11 MR. SIEBERT: Yes.

12 CHAIR GRIFFON: 120.2. Okay.
13 This -- I have this as a site profile issue
14 being referred to the Site Profile Group to
15 review the adequacy of the annual dose data.
16 Is that what you have? So this is a transfer
17 to site profile review.

18 MR. FARVER: Right.

19 CHAIR GRIFFON: I have to make
20 them aware of that. Okay. 120.3 now, this is
21 again the language, reviewed language. 120.4,
22 see 120.2 --

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1 MR. FARVER: The uncertainty.

2 CHAIR GRIFFON: -- claim. So
3 120.4 is also closed. Everybody agree with
4 that?

5 MR. FARVER: Yes.

6 CHAIR GRIFFON: 120.5, I have
7 NIOSH will provide IMBA run, and I think you
8 might have done that already. Let me check.
9 Maybe not. Well that's what I have. NIOSH
10 provided IMBA run for this case and La Bone.

11 MEMBER MUNN: And my note says
12 provided in September '07. But then they
13 reviewed it.

14 MR. FARVER: Yes, I remember
15 looking at it.

16 CHAIR GRIFFON: Okay. So you do
17 have -- wait a second, 120.5 I see on the next
18 page. Actually, I'm sorry, I have NIOSH
19 agrees, and they reassessed the internal dose.
20 Is that right?

21 MR. HINNEFELD: That was a fairly
22 long response it seems.

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1 CHAIR GRIFFON: Yes.

2 MEMBER MUNN: Okay. NIOSH will
3 review.

4 MR. HINNEFELD: They did.

5 MEMBER MUNN: So they did it, SC&A
6 looked at it, and said it was okay.

7 MR. FARVER: All right.

8 MEMBER MUNN: What else do we
9 need?

10 MR. HINNEFELD: It sounds like
11 just what happened, the dose reconstructor did
12 make a mistake.

13 MR. HINNEFELD: Right, that's what
14 I'm saying, yes.

15 CHAIR GRIFFON: And I think the
16 way -- why it took so long is that the dose
17 reconstruction review proposed a particular
18 what should be done instead, and our response
19 was, well, we don't really think that should
20 be done. We think this other thing should be
21 done. And that was the nature of the
22 discussion, and I think that's what they

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1 agreed to.

2 MR. FARVER: Okay.

3 MEMBER MUNN: It's all good.

4 CHAIR GRIFFON: NIOSH agrees,
5 reassessing term dose and SC&A was in
6 agreement with the change. Right?

7 MR. HINNEFELD: I believe that
8 reflects that.

9 MR. FARVER: Yes.

10 CHAIR GRIFFON: Okay. On 120.6,
11 is this the last one? NIOSH agrees, no
12 further action is what I have.

13 MR. FARVER: Okay.

14 MEMBER MUNN: On (b)(2)?

15 CHAIR GRIFFON: Yes.

16 MEMBER MUNN: NIOSH to provide
17 input on the case. It's been done, and it's
18 closed, right?

19 CHAIR GRIFFON: I didn't have
20 anything.

21 MR. HINNEFELD: If that was
22 supposed to happen, it has happened, and it's

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1 closed, I believe.

2 CHAIR GRIFFON: I have nothing
3 about an IMBA run there, but I have that it=s
4 closed, which NIOSH agrees, and no further
5 action.

6 MR. FARVER: I think that happened
7 a long time ago.

8 CHAIR GRIFFON: Yes. I believe
9 that was quite a long time ago. Okay, and
10 that does it. Yes, we did it. Just when I
11 thought it was going to take a half hour. All
12 right. Just to take a break from the
13 matrices, I think after lunch maybe we can try
14 the 100 case summary report first.

15 MEMBER MUNN: Yes.

16 CHAIR GRIFFON: And then plunge
17 into the seventh set. I sent out a new
18 version.

19 MR. HINNEFELD: You sent it just
20 very recently.

21 CHAIR GRIFFON: Very recently,
22 yes.

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1 MR. HINNEFELD: Yes, I did read
2 it. I mean, I saw it. I don't know if I read
3 it.

4 CHAIR GRIFFON: Ted, can we print
5 out any copies of that, if possible, for use
6 in here or not?

7 MR. KATZ: I think we could get
8 something printed.

9 CHAIR GRIFFON: Really short,
10 really short.

11 MR. KATZ: Give me something up
12 here.

13 MR. HINNEFELD: Is it easier to
14 resend it to everybody here?

15 CHAIR GRIFFON: Yes, I guess.

16 MR. HINNEFELD: I can resend to
17 everybody here.

18 CHAIR GRIFFON: You got it?

19 MR. HINNEFELD: I believe I do.

20 CHAIR GRIFFON: Just resend it.

21 MR. HINNEFELD: I believe I do.

22 MEMBER MUNN: I have it.

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1 CHAIR GRIFFON: Do you have it,
2 Wanda?

3 MEMBER MUNN: Well, I have a hard
4 copy and, therefore, I must have it. It's
5 just a matter of finding mine to mail.

6 CHAIR GRIFFON: We can do that
7 during lunch, and Kathy I know you have a copy
8 of that letter, unless you went to lunch
9 already.

10 MS. BEHLING: No, I'm here, and I
11 do have a copy of it.

12 CHAIR GRIFFON: Okay.

13 MS. BEHLING: Should I forward to
14 everyone?

15 CHAIR GRIFFON: I think we are
16 going to break --

17 MR. HINNEFELD: No, I've got it.
18 I've got it on my screen right now.

19 MS. BEHLING: Good. Somebody else
20 can forward it. Good.

21 CHAIR GRIFFON: Let's break for
22 lunch then for an hour, and we'll start off

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1 with that item.

2 MR. KATZ: So a little bit past
3 1:00, we'll start-up again.

4 CHAIR GRIFFON: All right.
5 Thanks.

6 MR. FARVER: Thanks, Kathy.

7 (Whereupon, the above-entitled
8 matter went off the record at 12:02 p.m. and
9 resumed at 1:06 p.m.)

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1 weren't squaring up for me, but that's, you
2 know, just a few numbers that are going to
3 change slightly.

4 MS. BEHLING: And, Mark, excuse
5 me. This is Kathy Behling, but I can
6 certainly do that for you. I didn't offer
7 initially, because I wasn't sure if I had the
8 very last version of all of the older
9 matrices, but I think I do. So if you want me
10 to tally those up, I can do that.

11 CHAIR GRIFFON: Okay. That would
12 be great, yes, if you can do that.

13 MS. BEHLING: Okay.

14 CHAIR GRIFFON: All right. And
15 but again, that's, you know, just details in
16 the body of the letter of the summary report.

17 But I did try to -- at least I know there
18 were some concerns about some of the tone in
19 it. I'm not sure there is any real objection
20 to any of the content necessarily, but some of
21 the way things were laid out. So I did look
22 at some areas for modifying some of the ways I

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1 said things.

2 I think in a couple of instances I
3 tried to drop out some of the however's. I
4 would write something and then say however,
5 you know, and I think that gave it a certain
6 tone. But other than that, it's not
7 drastically changed from the last time.

8 I didn't receive any specific
9 comments from other Subcommittee Members, so I
10 didn't really have anything to go on from that
11 standpoint, other than what was in the -- what
12 was said in the meeting.

13 But this is the time now if you
14 want to discuss, comment.

15 MEMBER MUNN: Yes, I had one or
16 two small nits. Your note on Comment 4 with
17 respect to procedural issues. I didn't look
18 at the comment until after I had already read
19 the paragraphs and my first reaction having
20 read the paragraph is why are we still
21 carrying this? This is now a moot point.

22 CHAIR GRIFFON: Number 4?

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1 MEMBER MUNN: Procedural issues,
2 number 3.

3 MR. FARVER: Three.

4 CHAIR GRIFFON: Number 3.

5 MEMBER MUNN: Does this one stay
6 in some way in the report? In my view, no. I
7 think it is --

8 CHAIR GRIFFON: Well, but --

9 MEMBER MUNN: It was appropriate
10 to the original one.

11 CHAIR GRIFFON: Yes.

12 MEMBER MUNN: But not when we --

13 CHAIR GRIFFON: You don't see it
14 as being a broad enough item to remain?

15 MEMBER MUNN: No.

16 CHAIR GRIFFON: I mean, we're
17 doing this sort of in retrospect. You've got
18 to think, you know, this is the first 100
19 cases, not where we are at today necessarily.

20 MEMBER MUNN: But there is -- if
21 we are going to just repeat everything that
22 they have heard before -- now this has been

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1 said and it was applicable to earlier times.
2 It isn't particularly pertinent now.

3 CHAIR GRIFFON: Right, right,
4 right.

5 MEMBER MUNN: With an eye to as
6 much brevity as possible. And I personally
7 would remove that.

8 CHAIR GRIFFON: Okay, okay.

9 MEMBER MUNN: There was --

10 CHAIR GRIFFON: I'm going to put
11 that I'll agree to at least compare it to the
12 last report and either drop it or modify it,
13 because I think you are right. It just
14 focuses on TIB-8 and 10 and that there is a
15 broader question about procedural issues, then
16 maybe that, you know, for some issues maybe it
17 remains, but if there is nothing else to be
18 said, then I'll agree to drop this, yes. And
19 I had that comment in there. Yes, okay.

20 MEMBER MUNN: Yes.

21 CHAIR GRIFFON: I was just going
22 to put in my comment now. Okay.

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1 MEMBER MUNN: On the third page
2 the second paragraph there, I think we need a
3 comma, this is a big deal. The outcome of
4 nearly all the cases reviewed will likely not
5 be affected by the findings in this review,
6 comma, concerns were identified for a broader
7 impact.

8 CHAIR GRIFFON: That's after
9 review then, comma?

10 MEMBER MUNN: Yes, don't you
11 think?

12 CHAIR GRIFFON: Yes, I'll let you
13 and Paul do that sort of thing.

14 MEMBER MUNN: Thank you. Paul
15 wasn't here.

16 MEMBER CLAWSON: You know, every
17 time I hear this, I think you guys really must
18 enjoy my emails.

19 MEMBER MUNN: They're wonderful.

20 CHAIR GRIFFON: I am always
21 thankful I didn't have Paul as a professor,
22 because I think he would have marked up a lot

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1 of my reports.

2 MEMBER MUNN: He's very punctual.

3 CHAIR GRIFFON: Minus ones all
4 over the place, you know.

5 MEMBER MUNN: Yes, I know.

6 MR. HINNEFELD: I recall we didn't
7 have to write very many actual sentences. I
8 remember columns and calculations.

9 CHAIR GRIFFON: Yeah, yeah, yeah,
10 that would be okay, but, yeah.

11 MEMBER MUNN: I don't have Paul's
12 eagle eye.

13 CHAIR GRIFFON: That's right.

14 MR. HINNEFELD: It was Paul's.

15 CHAIR GRIFFON: The dangling
16 participles, you know.

17 MEMBER MUNN: I can find those.
18 The fifth page, the top of the fifth page. I
19 may not be reading that paragraph exactly
20 right, but it confuses me every time I read
21 it. And I think there is a tense error in
22 there at "Several cases were identified for

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1 which OTIB-04 was used, but was found to be
2 inappropriate due to the type of site and
3 potential exposures the case involved were not
4 properly characterized." But --

5 CHAIR GRIFFON: Wait. Where are
6 you? Where are you reading? I'm sorry.

7 MEMBER MUNN: At the top of the
8 next to the last page.

9 CHAIR GRIFFON: Oh, next to last
10 page?

11 DR. MAURO: Right above seven.

12 CHAIR GRIFFON: Number seven, item
13 number seven?

14 DR. MAURO: Right above.

15 MEMBER MUNN: Right above.

16 CHAIR GRIFFON: Above item seven,
17 okay. I was on item seven.

18 MEMBER MUNN: Read that through and
19 tell me what I'm missing. It confuses me.

20 CHAIR GRIFFON: Yes, I see.

21 MEMBER MUNN: Every time I read
22 that sentence I say, huh.

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1 CHAIR GRIFFON: It's a little
2 scambly, yeah. The tense things is
3 definitely --

4 MEMBER MUNN: I think I know what
5 you are talking about.

6 CHAIR GRIFFON: -- tripping me up,
7 yeah, yeah.

8 MEMBER MUNN: But I'm not at all
9 sure how it goes exactly.

10 CHAIR GRIFFON: This is cases were
11 identified for -- I'm thinking of Apollo, I
12 think, or NUMEC. NUMEC was one of them.

13 MEMBER MUNN: But that's not the
14 point. The point is --

15 CHAIR GRIFFON: The language,
16 right? Yes.

17 MEMBER MUNN: Okay.

18 CHAIR GRIFFON: OTIB-4 was used,
19 but it was found to be inappropriate for the
20 type of work at that site.

21 MR. HINNEFELD: It was measured.

22 CHAIR GRIFFON: Right. I mean, it

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1 needs to be reworded for sure.

2 MR. HINNEFELD: Yes, it is kind of
3 like read clauses, but only two of them --

4 CHAIR GRIFFON: Yes.

5 MR. HINNEFELD: -- either two of
6 them would be work together, but they almost
7 like the third one. You know, the first one
8 has to be in some sense or the third one has
9 to be.

10 CHAIR GRIFFON: I agree, yeah,
11 yeah, yeah.

12 MEMBER MUNN: It's extraneous in
13 there.

14 DR. MAURO: Also it seems like if
15 you're not inside the process that we went
16 through, we would not really understand the
17 relevance of this comment. In other words,
18 it's a very general statement that here we
19 have a procedure that was being followed, but,
20 in fact, it wasn't. I mean, it was self-
21 centered. In effect what I see is that here
22 is a procedure that was written for a

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1 particular purpose, but it ended up being
2 expanded and used for other purposes where it
3 really shouldn't be used.

4 CHAIR GRIFFON: Yes.

5 DR. MAURO: And I think that's the
6 -- what is trying to be said.

7 MEMBER MUNN: But I don't think
8 that's what is being said.

9 I'm not sure at all what is being
10 said. And being familiar with what we have
11 done, I can't imagine that someone who is not
12 intimately familiar with what we have done
13 would not also be confused with that sentence.

14 CHAIR GRIFFON: I like the way
15 John said it, too, actually. So I'll rephrase
16 that. I took that note down. I think it is
17 easier if I try to redraft this before we meet
18 in Augusta, you know, send it out like a week
19 before.

20 We'll have time to look at it
21 again. But I will change that, because it's a
22 mess. Yes, I agree.

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1 MEMBER MUNN: A week before is
2 tomorrow.

3 CHAIR GRIFFON: Okay.

4 MR. HINNEFELD: Holy cow, that's
5 right. That's what it is, yes.

6 MEMBER MUNN: It really is.

7 CHAIR GRIFFON: Yes, that's right.
8 I thought we had another week in there for
9 some reason. I guess I was hoping.

10 MEMBER MUNN: I think those are my
11 only nits. Of course, we still lack the
12 numbers.

13 CHAIR GRIFFON: Yes. Well, and--
14 I mean, the more substantive change I try to
15 make and Stu gave me the dates on page 1.

16 MEMBER MUNN: Yes.

17 CHAIR GRIFFON: And I was pretty
18 close in my guess, but that's more precise.

19 MEMBER MUNN: Right.

20 CHAIR GRIFFON: And then I tried
21 to break up that next paragraph to reference
22 the tables, but SC&A put together a little

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1 more.

2 MEMBER MUNN: It reads much nicer.

3 CHAIR GRIFFON: Yes, so they can
4 look at the -- it refers them to the
5 attachments instead of just the one on the
6 POC. It kind of refers them to all the
7 attachments.

8 MEMBER MUNN: Yes.

9 CHAIR GRIFFON: And I guess I -- I
10 mean, the other thing I tried to take out of
11 it was any judgment on those tables
12 necessarily, just sort of statistics and here
13 they are.

14 MEMBER MUNN: That was
15 appreciated. And frankly, I did not spend a
16 lot of time looking at the attachments. I'm
17 just working on the assumption that --

18 CHAIR GRIFFON: These were the
19 ones that B They are basically pie graphs
20 most of them. Tables.

21 MEMBER MUNN: I mean, I didn't
22 take any time to verify the accuracy --

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1 CHAIR GRIFFON: Right.

2 MEMBER MUNN: -- of the tables.

3 I'm assuming that that's been done.

4 CHAIR GRIFFON: Did I send those
5 along?

6 MEMBER MUNN: Yes.

7 CHAIR GRIFFON: I think I sent
8 them.

9 MEMBER MUNN: You did.

10 CHAIR GRIFFON: Okay. Just to
11 make sure, yes. And those were ones that I
12 think Kathy presented at a meeting for us and
13 then gave to us as --

14 MEMBER MUNN: I just did not check
15 their accuracy with the information.

16 CHAIR GRIFFON: Right, right,
17 right. And if you look at them and think you
18 want to --

19 MEMBER MUNN: No. The
20 presentation was very easy for the reader to
21 follow.

22 CHAIR GRIFFON: Right.

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1 MEMBER MUNN: Am I the only person
2 who is going to complain about any of this?

3 CHAIR GRIFFON: Well, that wasn't
4 even a complaint, Wanda.

5 DR. MAURO: I think it's an
6 important observation. I mean, just reading
7 it down. I think it's an important graph, the
8 first one.

9 Listen, our goal is to look at 2.5
10 percent and we really haven't. Now, is that a
11 problem? I mean, even at 2.5 percent, I
12 guess, was picked on some basis.

13 CHAIR GRIFFON: Well, it was based
14 on the former.

15 MEMBER MUNN: It was fairly
16 arbitrary. We knew what was statistically
17 submitted, the numbers, and we went into that.

18 DR. MAURO: Right.

19 CHAIR GRIFFON: Well, it was sort
20 of based on Till=s sampling of the Veteran's
21 Program.

22 MEMBER MUNN: Right.

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1 DR. MAURO: Took guidance from
2 there, and the question is because we didn't
3 do 2.5 percent, we did about half or less than
4 half of that, is there anything that you think
5 that as being mighty important that is being
6 missed? I mean, I'm trying to think myself.
7 I think about, you know, doing all this for
8 five years and looking at all these different
9 sites and all the different cases and the
10 kinds of insights we are getting.

11 I can just pass on to you folks
12 that we are noticing that every -- the next
13 round, each next round of cases that we look
14 at is becoming a repeat to a large extent.
15 It's almost as if we -- I don't know.
16 Certainly, Doug, do you feel as if that each
17 next stage it's almost as if we are getting
18 1.50 percent?

19 Now, I think I've got a point with
20 this. I would say that I know when I do the
21 AWEs, I would say 70 percent of my findings
22 are already found.

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1 And maybe 30 percent are new ones
2 now unique to this particular site now. And
3 everything else is more or less a carry-over
4 from similar -- so it's almost as if --

5 CHAIR GRIFFON: That are
6 unresolved?

7 DR. MAURO: We are getting -- we
8 are still catching --

9 CHAIR GRIFFON: It's just a repeat
10 as well.

11 (Simultaneous speaking)

12 CHAIR GRIFFON: They may or may
13 not be resolved.

14 DR. MAURO: So the idea that, you
15 know -- I don't know, I'm just trying to think
16 about what I have seen and the fact that we
17 didn't hit 2.5 percent. I have to say my
18 reaction to that and your judgment, of course,
19 is it is not a fatal flaw.

20 In other words, the fact that we
21 have been hit in the last five years --

22 CHAIR GRIFFON: Well, we didn't

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1 expect to hit it.

2 DR. MAURO: Oh, okay. Okay.

3 CHAIR GRIFFON: This is the report
4 on the first 100.

5 DR. MAURO: Oh, the first 100,
6 right. But I mean, even the fact that -- you
7 know, I don't know what percent we are at now,
8 how many there actually are.

9 CHAIR GRIFFON: Right, right.

10 MEMBER MUNN: I think we're pretty
11 close actually.

12 CHAIR GRIFFON: There's 20,000
13 some aren't there? I don't know how many.

14 MR. HINNEFELD: I would say we
15 have done -- yes, I think we have done a
16 little over 20,000.

17 DR. MAURO: And so we have done
18 140, how many hundred? How many?

19 CHAIR GRIFFON: So 1 percent.
20 Well, 1 percent is still about 200.

21 DR. MAURO: We're still short.

22 CHAIR GRIFFON: Right. I don't

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1 know. I thought --

2 CHAIR GRIFFON: This is probably--

3 DR. MAURO: -- what's the
4 significance of the fact we're basically
5 operating at a pace, especially less, quite a
6 bit less than what the original pace was. And
7 are there consequences to that that we
8 perceive? And right now, I have to say I
9 don't know. You know, we're catching a lot of
10 stuff.

11 CHAIR GRIFFON: I don't think
12 there --

13 DR. MAURO: And we're missing a
14 lot of stuff.

15 MEMBER MUNN: The key is that
16 virtually all of the permutations of concerns
17 that could arise. You have been permitted one
18 way or another.

19 CHAIR GRIFFON: I disagree. I
20 mean, you know, I think for me and I took some
21 of the -- I tried to take some of the tone out
22 of this, but I think the thing you can't miss

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1 in this report is that we said from the
2 beginning that we wanted to weight heavily on
3 the 45 to 50. They just weren't available at
4 this time. So we don't have any weight on
5 that at all.

6 DR. MAURO: Exactly.

7 CHAIR GRIFFON: You've got -- you
8 know, when you are talking 4 out of 100
9 cases --

10 DR. MAURO: I agree with that.

11 CHAIR GRIFFON: -- being that way,
12 you know, it's no surprise to me that cases
13 that come into us at 10 percent POC --

14 MEMBER MUNN: Right.

15 CHAIR GRIFFON: -- or 70 percent,
16 you know, that we are not finding fatal flaws,
17 as you say, you know.

18 MEMBER MUNN: I'm misinterpreting
19 what I was saying.

20 CHAIR GRIFFON: Oh.

21 MEMBER MUNN: I meant I did not
22 specifically with respect to the dose

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1 reconstruction activities themselves, but in
2 terms of the overall picture of the site and
3 how we go about things.

4 CHAIR GRIFFON: Oh, okay.

5 MEMBER MUNN: We have pretty much
6 identified where the major issues lie.

7 CHAIR GRIFFON: Oh, okay, okay. I
8 misinterpreted you.

9 MEMBER MUNN: Yes.

10 CHAIR GRIFFON: Okay.

11 MEMBER MUNN: Sorry.

12 CHAIR GRIFFON: No, that's all
13 right.

14 DR. MAURO: Okay. So I read this
15 once, an earlier version. I think that maybe
16 the most important exhibit is Table 5.

17 CHAIR GRIFFON: Is that the one
18 with the POC?

19 DR. MAURO: That's the pie chart
20 with the POC.

21 CHAIR GRIFFON: Yes. And I --

22 DR. MAURO: Yes.

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1 CHAIR GRIFFON: -- think I stated
2 that pretty, you know. strongly. That's the
3 one I saved for last.

4 DR. MAURO: Yes, see because, in
5 effect, that was happening -- I -- what is
6 happening is that I think that it's almost
7 like two phases. The process we just came
8 through has two phases. Remember we did
9 realize. We transitioned. A transition phase
10 where they were drawing it. And even though
11 we didn't hit 2.5 percent on that, I don't
12 think that's important, not very important,
13 because of the recurring nature of the
14 comments that are associated with the low
15 hanging fruit.

16 Now, we have moved into a phase
17 where we're always looking at the 45 to 40,
18 you know, the realistic ones. And according
19 to the pie chart, we're going with -- I have
20 all the ones we looked at only 5 percent. But
21 here is where things got a problem, findings
22 have substantial import. And now, we are at

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1 the place where, you know, the -- I guess, the
2 robustness of the program in terms of all the
3 procedures, all of the approaches, the quality
4 assurance, every aspect of the program.

5 The site profiles to the
6 procedures have become you've got to get it
7 right. And so, in effect, the first -- in
8 this first set, by their very nature, these
9 first 100 B So I mean, there is -- so there
10 is a transition leaving that. Now, I don't
11 know when we really start to pick up the pace.

12 For example, if we've got a pie chart right
13 now --

14 MEMBER MUNN: We're on about the
15 third set, I think.

16 DR. MAURO: Yes. But where I
17 think that, you know, then it becomes a matter
18 of okay, now we have transitioned into these
19 more difficult cases, the ones that really
20 it's important that we catch things that
21 might, you know, have reversals. And it's at
22 that point where the percent that you review

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1 will have lots.

2 A review of these percents and you
3 find 1 out of 100 are possible, potential
4 reversibles. We don't say --

5 CHAIR GRIFFON: It's also hard, by
6 their very nature as we found out, you know.
7 I mean, the number available is often, you
8 know, we just have the numbers, you know.

9 MR. HINNEFELD: For a focus like
10 that, I think you should really think about
11 your selection and maybe select review for
12 every single one on 45 and 50, because I
13 honestly don't believe the number is going to
14 be in the 45 percent of the overall total --

15 CHAIR GRIFFON: Of the overall
16 total.

17 MR. HINNEFELD: -- in that range.

18 CHAIR GRIFFON: Right.

19 MR. HINNEFELD: Because you
20 constantly look for them.

21 CHAIR GRIFFON: Yes.

22 MEMBER MUNN: Yes.

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1 MR. HINNEFELD: And/or, you know,
2 at least lately and still you don't find all
3 that many.

4 CHAIR GRIFFON: Right, right.

5 MR. HINNEFELD: So I think we may
6 want to --

7 CHAIR GRIFFON: We might want to
8 do it all.

9 MR. HINNEFELD: You may just want
10 to think we're going to review every single
11 one that is between 45 and 50.

12 CHAIR GRIFFON: Right.

13 MR. HINNEFELD: And I think you
14 will still be left with 2.5 percent.

15 CHAIR GRIFFON: Yes.

16 MEMBER MUNN: That's not true.

17 MR. HINNEFELD: And maybe if you
18 want to do some additional looks as well, you
19 can, you know, review some other criteria as
20 well. But if that's really where you want to
21 focus, you feel like that's where the
22 worthwhile review is and there aren't going to

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1 be that many --

2 CHAIR GRIFFON: Right.

3 MR. HINNEFELD: -- at least just
4 check. I can -- it will take me a day or two
5 for the query to run for how many there are.

6 CHAIR GRIFFON: Well, don't you
7 usually pull out all the cases between 45 and
8 50? The last couple of times I thought you --
9 or were you pulling out best estimates?

10 MR. HINNEFELD: I have pulled all
11 the ones that were best estimates.

12 CHAIR GRIFFON: Best estimates.
13 We were thinking that that was --

14 MR. HINNEFELD: Now, this last
15 model -- this last time -- well, they
16 shouldn't be in this range of POCs if they are
17 not pulled in --

18 CHAIR GRIFFON: Right, right,
19 right. That was the --

20 MR. HINNEFELD: Yes. So they
21 should all be on that list.

22 CHAIR GRIFFON: Right, right. And

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1 we weren't getting that many.

2 MR. HINNEFELD: This most recent
3 pull -- you know from looking through there,
4 there are not that many in that range.

5 CHAIR GRIFFON: Right.

6 MR. HINNEFELD: And in this most
7 recent pull, I didn't go all the way back. I
8 drew some arbitrary copies. I had to be
9 finished by January 1, '07 or something.

10 CHAIR GRIFFON: Yes.

11 MR. HINNEFELD: So I didn't go all
12 the way back. But those are the ones. Every
13 single one and it's on this No. 11 selection
14 wasn't, of course, handed down yet. But so
15 you may just want -- I'm just suggesting in
16 order to focus on those, choose every single
17 one and then maybe if you have some ideas,
18 some other things you want to look at, use the
19 second set of criteria. I think you are going
20 to need to select more than 2.5 percent
21 objectives.

22 CHAIR GRIFFON: But even these, I

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1 think, and now that I'm looking at that
2 graphic, I might even ask SC&A to modify that,
3 because I think it would be more telling to
4 break up that 0 to 45 a little more. You
5 know, give us a little more stratification in
6 there, in your pie graph.

7 Because I think also, you know, if
8 we are not finding many at all in 45 to 50, we
9 might then look from 40 to 50 or whatever.

10 MR. HINNEFELD: Yes.

11 CHAIR GRIFFON: And let's see how
12 we -- our breakout rate now is in that regard.
13 I don't know.

14 MEMBER MUNN: Well, we started out
15 looking at decades when we were first looking
16 at them.

17 CHAIR GRIFFON: Yes.

18 MEMBER MUNN: I don't mean --

19 CHAIR GRIFFON: I know what you
20 mean.

21 MEMBER MUNN: -- temporal.

22 CHAIR GRIFFON: Right.

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1 MEMBER MUNN: I mean, decades.

2 CHAIR GRIFFON: Right.

3 MEMBER MUNN: Categorically. And
4 I think almost everybody agrees that anything
5 below about 30 percent was really pointless to
6 look again.

7 CHAIR GRIFFON: Right.

8 MEMBER MUNN: But it always -- I
9 would think it would be helpful to the casual
10 dealer to see.

11 CHAIR GRIFFON: See the breakout
12 there.

13 MEMBER MUNN: Yes.

14 CHAIR GRIFFON: I am going to ask
15 you, John, as an action -- or, Kathy, are you
16 on the phone?

17 MS. BEHLING: Yes, I'm here. I
18 can break that down.

19 CHAIR GRIFFON: Okay.

20 MS. BEHLING: That's not a
21 problem.

22 CHAIR GRIFFON: Thanks. But the

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1 other graphics, the other testaments in here
2 are important. And I'm thinking back to what
3 was said at the last meeting. I mean, I just
4 modified my one sentence here. I was sitting
5 counting the number of sites and I think that
6 is important to relate to the -- to our
7 audience. But you know, we did 100 reviews
8 and it covers 37 on that list. But I put
9 parenthetically 37 different sites.

10 DR. MAURO: Yes.

11 CHAIR GRIFFON: So we are -- you
12 know, in terms of who we sort of are -- you
13 know, the community throughout the United
14 States and all the claimants, you know, we're
15 trying to cover.

16 MEMBER MUNN: In terms of --

17 CHAIR GRIFFON: We're trying to be
18 broad about this and looking --

19 MEMBER MUNN: They are covered.

20 CHAIR GRIFFON: Yes.

21 DR. MAURO: And the cancer types,
22 I mean.

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1 CHAIR GRIFFON: Right.

2 DR. MAURO: I think the design.

3 CHAIR GRIFFON: Right.

4 DR. MAURO: The initial design was
5 well conceived.

6 CHAIR GRIFFON: Was pretty well.

7 DR. MAURO: And it was
8 implemented. The fact that we didn't do as
9 many was -- the way I look at it, it's not as
10 important as the fact that we did achieve the
11 other objectives, namely the cross sections.

12 CHAIR GRIFFON: Yes, very good.
13 We got a reasonable selection across decades.

14 DR. MAURO: But the outcome of
15 that now as this program matures in terms of
16 these kinds of data and what they tell us is
17 driving the conversation we just had, which is
18 important, which means that we are maturing in
19 our thinking about how do we take our samples
20 now.

21 CHAIR GRIFFON: Yes, we're next.

22 DR. MAURO: And we're next. I

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1 think that's an important thing.

2 CHAIR GRIFFON: Yes.

3 MR. KATZ: I think it's good that
4 you are having this conversation, because I
5 think this is a natural one for the Augusta
6 agenda to discuss.

7 CHAIR GRIFFON: Yes, and I was
8 going to try to present this. If the
9 Subcommittee agrees on this draft, I'm sure
10 the Board Members will have opinions, too, so
11 it might not be the final thing written out,
12 but I can go through this, including all the
13 attachments and have that discussion then.
14 And also mention that we are queuing up an
15 11th set, you know.

16 Mike or Brad, any comments on
17 that?

18 MEMBER CLAWSON: Well, I would
19 like and there should be a final choice.

20 CHAIR GRIFFON: Oh no, more
21 grammar.

22 MEMBER CLAWSON: No, coming to me.

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1 CHAIR GRIFFON: It's never my
2 strength, you know.

3 MR. KATZ: Something to think
4 about when you do that, you guys are thinking
5 about it anyway, so they adjust the agenda,
6 this very topic. So there is both the
7 question of selection, how do you want to go
8 forward.

9 CHAIR GRIFFON: Right.

10 MR. KATZ: In terms of selection.
11 The other question that is a sort of natural
12 one since we are going to be transitioning to
13 a new contract for your support and so on is
14 just numbers, too. How -- I mean, you raised
15 the question earlier on with me about, you
16 know, are we doing enough dose reconstruction
17 reviews?

18 CHAIR GRIFFON: Right, right.

19 MR. KATZ: I think that's another
20 one to raise with the whole Board.

21 CHAIR GRIFFON: Yes, just so
22 everyone -- I mean, I raised the question of

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1 the number of cases per contract cycle.

2 MR. KATZ: Yes.

3 CHAIR GRIFFON: And whether we
4 need to ramp up to meet our goals of 2.5
5 percent.

6 DR. MAURO: We have been operating
7 at 60 cases a year.

8 CHAIR GRIFFON: Yes.

9 DR. MAURO: And that was due to
10 the fact that, I understand, the update -- you
11 guys -- we don't know what --

12 CHAIR GRIFFON: Right, right.

13 DR. MAURO: It's something like
14 that. Just from the point of capacity, there
15 are two -- if we were operating at this --
16 under the same level of complexity that we
17 have in the past year or so, which means, you
18 know, we're moving heavily into the more
19 realistic cases.

20 CHAIR GRIFFON: Right.

21 DR. MAURO: We could double our
22 capacity. I mean, that's it, otherwise, we --

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1 I think -- I don't think -- otherwise if the
2 Board --

3 CHAIR GRIFFON: You could do up to
4 120 a year.

5 DR. MAURO: We could do that.

6 MR. HINNEFELD: There can be twice
7 as many.

8 DR. MAURO: Well, you know, I have
9 been trying to look at the big picture.

10 CHAIR GRIFFON: Yes.

11 DR. MAURO: And the resources we
12 have, the work hours and our skilled resources
13 have. And the reality is I realize that, the
14 program and I feel confident, we can wrap up
15 at twice that.

16 CHAIR GRIFFON: Right, if the
17 Board wanted to do that.

18 DR. MAURO: But the only downside,
19 the only place where I have reservations is
20 that each case is taking a little longer to
21 do.

22 CHAIR GRIFFON: We end up thinking

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1 about the resolution process anyway. I'm not
2 sure if you got that far ahead of us if it
3 will be even worthwhile, you know.

4 DR. MAURO: We have to get to --
5 you know, we're doing a very good job on it.
6 I mean, we're up to the seventh case.

7 CHAIR GRIFFON: Yes, we're up to
8 the seventh. You're only on the 10th, right?
9 So, yes, we're not lagging too far behind.

10 MR. HINNEFELD: And the rate
11 limiting effect might be -- we might be the
12 rate limiting factor, rather than --

13 CHAIR GRIFFON: Yes.

14 DR. MAURO: And remember as we
15 move on to these cases, we're going to see the
16 same stories over again, unless we get into
17 these realistic cases where unique situations
18 are --

19 CHAIR GRIFFON: Well, that's where
20 I think you may not. You may not.

21 DR. MAURO: So it's complicated.

22 MR. FARVER: I think the number of

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1 findings will decrease, because we have a lot
2 of repetitive findings out of the way.

3 CHAIR GRIFFON: Right. But the
4 difficulty of resolution --

5 MR. FARVER: We're actually in the
6 range, right.

7 CHAIR GRIFFON: Yes, right, right.

8 So anyway, any more comments on the draft?
9 I'll try to -- I mean, you can send me stuff
10 up to -- you know, I guess, I've got to cut it
11 off. Like this Thursday, I've got to send it
12 out to the Board Members, everybody else by
13 Thursday, I would say. So if you have any
14 other particulars you want to email me, that's
15 fine. I'll try to do it during Wanda's
16 meeting tomorrow or Wednesday more likely.

17 MEMBER MUNN: Thanks.

18 CHAIR GRIFFON: It sounds like an
19 action-packed meeting tomorrow, so I probably
20 won't have an opportunity tomorrow, but
21 Wednesday, I'll finish it and send it out.

22 MEMBER MUNN: Well, thank you for

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1 getting these drafts back early enough, so I
2 can take a look at them.

3 CHAIR GRIFFON: All right. Let's
4 move on to the seventh set then.

5 DR. MAURO: He says reluctantly.

6 CHAIR GRIFFON: This is where I
7 fade with the early morning travel. All
8 right. The seventh set. We did go through
9 once already. I'm sure everybody remembers
10 exactly every finding.

11 Let's see, I'm going to -- let me
12 just pull it up and I want to see what my most
13 recent version is. I have actions from June
14 10th meeting is the last electronic file I
15 have. I have a matrix dated June 10, 2008 is
16 the last electronic version I have. And then
17 at the August 20th meeting, I think, is where
18 I have some handwritten resolutions.

19 But the last electronic version I
20 have, I think, that I sent out was -- is June
21 10, 2008. Wanda, do you have that one?

22 MEMBER MUNN: I'm trying to --

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1 interestingly enough, that was not one of the
2 policy forms.

3 CHAIR GRIFFON: Uh-oh.

4 MEMBER MUNN: I have numerous
5 other numbers that I have.

6 CHAIR GRIFFON: Stu, do you have
7 that? Could you read?

8 MR. HINNEFELD: I am looking for
9 it.

10 CHAIR GRIFFON: Okay.

11 MR. HINNEFELD: Because to be
12 honest with you, I believe I have an older one
13 on my scandisk.

14 CHAIR GRIFFON: Oh, okay.

15 MEMBER MUNN: I have an August 20.

16 CHAIR GRIFFON: I'm not on the
17 Internet.

18 MEMBER MUNN: I have --

19 DR. MAURO: I'm sorry, Mark, did
20 you say the June 10th date was an action one
21 or is that --

22 CHAIR GRIFFON: No.

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1 DR. MAURO: The name of the file?

2 CHAIR GRIFFON: June 10th was in
3 the name of the matrix, but also in the
4 actions, yes. Seventh set actions from the
5 June 10th meeting.

6 DR. MAURO: That's what we're
7 looking at.

8 CHAIR GRIFFON: So there is an
9 action list as well. And I think there is
10 just a one-pager.

11 DR. MAURO: Yes.

12 CHAIR GRIFFON: Yes.

13 MR. FARVER: The other ones I have
14 say June 6th in the title.

15 CHAIR GRIFFON: Is that the matrix
16 or the action?

17 MR. FARVER: The matrix.

18 CHAIR GRIFFON: The matrix? It
19 says June 2nd?

20 DR. MAURO: That's what I have,
21 too.

22 CHAIR GRIFFON: In the title?

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1 DR. MAURO: Yes.

2 CHAIR GRIFFON: Is there a header
3 on your's? No? It just starts off right with
4 the thing, right? Mine says June 10, 2008.

5 MR. FARVER: I've got one that
6 says prepared by work group February 15, 2007.

7 And then in the footer it says update May 30,
8 2008. That looks like one that was sent with
9 NIOSH responses.

10 CHAIR GRIFFON: Oh, I see, yes,
11 okay. 7/28, matrix really sent to
12 Subcommittee June 2, '08. Is that what -- you
13 have that file?

14 MR. FARVER: Yes.

15 CHAIR GRIFFON: Okay. And then on
16 the header on that it says prepared February
17 15, '07, right?

18 MR. FARVER: Correct.

19 CHAIR GRIFFON: Okay. I have a
20 different one, but I think they are the same
21 in terms of content.

22 MR. FARVER: I might have one that

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1 you updated.

2 CHAIR GRIFFON: Yes. I have --
3 yes, I might have updated.

4 MR. FARVER: During the meeting.

5 CHAIR GRIFFON: But I said -- yes,
6 okay.

7 DR. MAURO: Am I correct that this
8 one that I'm looking at looks like it has been
9 populated? All of them have been populated by
10 NIOSH? That was the large --

11 CHAIR GRIFFON: Most of them, yes.
12 Some --

13 DR. MAURO: Some not.

14 CHAIR GRIFFON: Well, let's just
15 work from that one that says June 2nd, since
16 most people have that. Wait a second.

17 MR. HINNEFELD: I think I have
18 one.

19 CHAIR GRIFFON: No, I've got one.

20 MR. HINNEFELD: That would be the
21 one with the August 20th meeting date on it.

22 CHAIR GRIFFON: Yes, this one that

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1 I'm looking at has sent to Subcommittee June
2 10, '08.

3 MR. HINNEFELD: Okay.

4 CHAIR GRIFFON: And it does have
5 some -- it has a lot of resolutions in here.
6 It must be from the June 10th meeting maybe.

7 MR. HINNEFELD: It is probably. I
8 don't know what the -- whether resolutions
9 came June 10th or not. Scott just forwarded
10 this one to me and it says sent -- it was
11 really sent to the Subcommittee on June 2nd.
12 He sent me that one.

13 DR. MAURO: What was the file
14 date?

15 MR. HINNEFELD: No, that's an
16 older one. No.

17 DR. MAURO: Okay. Now, the one I
18 -- the latest one that I have is -- it says to
19 Subcommittee for August 20th meeting, August
20 20, 2008 meeting.

21 CHAIR GRIFFON: Oh, okay.

22 DR. MAURO: I can send that one.

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1 MR. HINNEFELD: And what's the --

2 CHAIR GRIFFON: All right. We
3 might be working with a couple different
4 versions. I have some -- in my matrix, I have
5 some that have, for instance, 128.2. I have
6 NIOSH has reviewed DR tool, compensable case,
7 no further action. I have a lot of the
8 resolutions typed in here. It doesn't include
9 a couple of the things that Stu has in another
10 version that he says was sent to the
11 Subcommittee on -- for August 20th meeting.

12 MR. HINNEFELD: That's for the
13 June 20th meeting.

14 CHAIR GRIFFON: August 20th I
15 thought.

16 MR. HINNEFELD: August 20th.

17 CHAIR GRIFFON: Yes. So you might
18 have to have that one open while I have this
19 one open.

20 MR. HINNEFELD: I'm going to send
21 what I got to everybody.

22 CHAIR GRIFFON: Okay.

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1 MR. HINNEFELD: We can look at it.

2 CHAIR GRIFFON: I'll merge this
3 into one final document. You know, we will
4 just go through them step by step. We'll just
5 go through them step by step. It looks like I
6 updated one version of the matrix and Stu
7 updated and added some NIOSH responses in an
8 older version. So we have got kind of two
9 things going on here.

10 DR. MAURO: And we have sort of a
11 third level, that is in response to Stu's
12 material that was sent to us.

13 CHAIR GRIFFON: Yes.

14 DR. MAURO: Doug looked at as much
15 of it as he could and he apparently has marked
16 in our position regarding this.

17 CHAIR GRIFFON: Did you put it in
18 the matrix?

19 DR. MAURO: Well, it's on here
20 anyway.

21 CHAIR GRIFFON: Okay.

22 DR. MAURO: Have you seen it?

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1 CHAIR GRIFFON: I haven't seen it.

2 MR. FARVER: No, you haven't,
3 because that's the same thing I brought to the
4 last meeting.

5 CHAIR GRIFFON: All right.

6 MR. FARVER: When I got through
7 this, I go through all these new responses.

8 CHAIR GRIFFON: Right, right,
9 right.

10 MR. FARVER: And come up with my
11 response and that's what I tell you.

12 CHAIR GRIFFON: All right, all
13 right. Well, let's go through them one by one
14 and out of this meeting I will fix the sixth
15 and seventh matrix, so we have one final copy
16 of both, you know. One updated final copy.
17 And then we will work to getting that database
18 set up so we don't have, you know.

19 MEMBER MUNN: What we're going to
20 need is that setup.

21 CHAIR GRIFFON: What's that?

22 MEMBER MUNN: The proofings.

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1 Because I have all kinds of individual
2 communications regarding the seventh set.

3 CHAIR GRIFFON: But you don't have
4 a matrix?

5 MEMBER MUNN: I don't know where
6 the matrix was.

7 CHAIR GRIFFON: Stu, can you
8 supply her one?

9 MR. HINNEFELD: I just sent it.

10 CHAIR GRIFFON: Oh, he sent it.

11 MR. HINNEFELD: The one I have
12 that said it was --

13 CHAIR GRIFFON: All right.

14 MR. HINNEFELD: -- it looks like I
15 put this stuff on it for the August 20th
16 meeting. So I don't know that I had the most
17 recent.

18 CHAIR GRIFFON: Okay.

19 MR. HINNEFELD: Like you said, I
20 mean, it should have been updated.

21 MEMBER MUNN: Thank you very much.

22 CHAIR GRIFFON: All right. So

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1 let's try to work with these three or four
2 matrices, whatever we have. All the findings
3 are the same, so, you know. All right.

4 Let's start at the top. And this
5 one, 121.1, I don't have a NIOSH response, but
6 I think you have had, right? So, yes.

7 MR. HINNEFELD: Yes.

8 CHAIR GRIFFON: Okay. This is
9 Aliquippa Forge case.

10 MR. HINNEFELD: I have not opened
11 the finding itself in the report, so I have it
12 in the summary, but I can tell you what is
13 written here as a response. The available
14 information in the case is that no additional
15 remediation occurred after the initial
16 decontamination efforts in 1950.

17 Based on the nature of the
18 contamination observed in 1978, spotty low
19 level surface contamination. Using an
20 inflated maximum exposure rate as described
21 below to represent the plan average is
22 considered a claim of favorable.

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1 So the finding must have related
2 to what -- the data that were used in the --

3 DR. MAURO: It's a classic
4 problem --

5 MR. HINNEFELD: Yes.

6 DR. MAURO: -- across all of the
7 residual radioactivity period for AWEs very
8 often, and this is -- I remember this --

9 MR. HINNEFELD: Yes.

10 DR. MAURO: -- 1978 data. 1978 is
11 a date to remember, because that's when very
12 often the flush out program begins. And
13 that's when the characterization begins. And
14 very often characterization data is collected
15 before the flush out clean-up begins as
16 characterized.

17 And one of the concerns, and we've
18 come across this many times, is that that very
19 same reading, whether it is microrem per hour
20 reading or swipe samples, it is used to
21 reconstruct the doses from residual rating
22 where it could be following operations. That

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1 may have been 20 years ago, 20 years before.

2 And I -- my recurring comment is
3 you really want to use 1978 data to
4 reconstruct doses to people in the 1950s and
5 perhaps '60s. And sometimes the 19 -- the
6 data you refer to, now, this one I can't say
7 for sure, I would have to look at, is host-
8 decontamination and sometimes it's pre-
9 decontamination.

10 What I just heard from you is it
11 was pre-decontamination data.

12 MR. HINNEFELD: That's the way
13 it's presented here.

14 DR. MAURO: That is a positive.

15 CHAIR GRIFFON: Yes.

16 DR. MAURO: Still you've got a 20
17 year period between.

18 CHAIR GRIFFON: Still you've got a
19 20 year period of draft.

20 DR. MAURO: Well, the response
21 goes on. The general area dose rate measured
22 in 1978 indicated no difference than

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1 background. With that background being
2 defined as .03 or .05 millirem per out. The
3 exposure matrix was based on the upper end of
4 this background range and assumed that at that
5 level, the gamma radiation was due to
6 residual activity. So, essentially, you know,
7 it wasn't background. It was residual. And
8 this leads to a claimant favorable .

9 MR. HINNEFELD: Okay. Let me say
10 -- I mean, I have been looking this way.
11 Because you have OTIB-60 now -- TBD-6000 and
12 OTIB-70, you have come up with a much more
13 formalized way of dealing with this issue.
14 Two important things.

15 In TBD-6001, you have data on
16 residual radioactivity for a variety of
17 different kinds of sites that -- and the data
18 go back to, you know, earlier years. So you
19 now have almost like a catalog of information
20 that, in my mind, represents a much better
21 starting point for doing dose reconstruction
22 during residual periods, especially when you

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1 are looking at very large time spans between
2 the beginning of the residual period and your
3 later data.

4 I have to say I have a real
5 problem using 1978 date for 1958, '60
6 exposures. And you have the wherewithal now
7 between OTIB-70 and TBD-6000 to do a better
8 job there.

9 Now, with all that being said,
10 that doesn't mean we're talking about
11 significant doses.

12 DR. MAURO: Yes.

13 MR. HINNEFELD: Unless the
14 exposure is only that. Usually what we run
15 into when a person is exposed during
16 operations and then for a long period of time
17 post-operations and the during operations
18 always swamps the exposure, so, therefore,
19 these comments on residual become of
20 scientific interest. But in terms of their
21 significance to the dose reconstruction and
22 possibility of perhaps a reversal, it rarely

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1 plays a role.

2 Nevertheless, I think that you
3 have now built an infrastructure between OTIB-
4 70 and TBD-6000/6001 that should be used. You
5 know, whether or not you can go back and
6 revisit this from that perspective, you know,
7 I think my comment still stands.

8 DR. MAURO: Right.

9 MR. HINNEFELD: You don't want
10 this 1978 data for 1958 exposures or whatever
11 the year was.

12 DR. MAURO: Okay. That sounds,
13 you know, not only that you have a finding,
14 but you have a recommended solution, so that's
15 actually kind of a plus.

16 CHAIR GRIFFON: Oh, but we haven't
17 reviewed TIB-70 completely, right?

18 DR. MAURO: We did review TIB-70.

19 CHAIR GRIFFON: Potentially.

20 DR. MAURO: The procedures are
21 working with it.

22 CHAIR GRIFFON: Yes.

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1 DR. MAURO: But I know what they
2 are talking about.

3 CHAIR GRIFFON: I guess that's --

4 DR. MAURO: He made a very
5 detailed review, very comprehensive and it has
6 some limitations, but not with respect to
7 this. In other words, TIB-70 has five, I
8 believe, different strategies. And OTIB-6 --
9 TBD-6000 had an array of different settings,
10 all of which, like I said, represent a
11 catalog.

12 MR. HINNEFELD: Right.

13 DR. MAURO: Some -- we have
14 comments on some of those and some of those we
15 find fine. We'll get to those eventually.
16 What I'm trying to say is that now that you
17 have that, what's done here? I don't know.

18 MR. HINNEFELD: Right.

19 DR. MAURO: You know, what we want
20 to do here, I don't know. In a real case
21 where you didn't have that available to you --

22 MR. HINNEFELD: Right. It wasn't

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1 available at the time.

2 DR. MAURO: At the time.

3 MR. HINNEFELD: It wasn't until
4 the year --

5 DR. MAURO: Exactly.

6 MR. HINNEFELD: And I mean, I
7 think we have to -- you would have to assess
8 whether TIB-70 would even make a difference.
9 If you applied that methodology, would it even
10 make a difference in the case?

11 DR. MAURO: That's right. That's
12 something you might be able to look at quickly
13 if it's a real low POC, you know what I mean?
14 You don't have to go do the whole
15 calculation. You can probably say, you know,
16 there is no way.

17 MR. HINNEFELD: Okay. I think that
18 maybe -- well, we have not done that. I mean,
19 our response also goes on to compare doses
20 like the Y-12 plan went, which was an
21 operating uranium plant and two of the doses
22 that this model assigned for the residual

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1 period of the plant that periodically rolled
2 uranium and they are fairly equivalent.

3 DR. MAURO: Right. But as you
4 pointed out, you are looking at background.

5 MR. HINNEFELD: Yes.

6 DR. MAURO: In other words, you're
7 saying by the time we got to 1970 it was
8 background.

9 MR. HINNEFELD: It was background.

10 CHAIR GRIFFON: Right.

11 DR. MAURO: So you're right.
12 Actually, you make a very good point and I
13 think it would be worth our while to go take a
14 look at that and see if we can't get away from
15 the practice of -- since the '78 survey is all
16 we have, we'll try to pull something out of
17 that.

18 MR. HINNEFELD: I think that's the
19 reason you built.

20 DR. MAURO: I'm pretty sure that's
21 what we did it.

22 MR. HINNEFELD: Yes.

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1 DR. MAURO: Yes.

2 CHAIR GRIFFON: So you are going
3 to -- what's the action here? I just want to
4 capture it correctly.

5 MR. HINNEFELD: Okay. NIOSH will
6 evaluate the use of OTIB-70 and TBD-6000 for--
7 in place of the technique that was used.

8 CHAIR GRIFFON: All right. Yes,
9 that's it.

10 DR. MAURO: As a general rule in
11 every AWE, we do have some very -- in some
12 cases, we do have some very significant
13 findings for operations which are unique to
14 that operation. Have to be dealt with on a
15 case by case basis. However, once you get to
16 the residual period, you generally find -- I
17 see myself saying over and over again what I
18 said just now.

19 CHAIR GRIFFON: Yes, all right.
20 And does that apply for -- well, one and two
21 seem to overlap a little bit, don't they? The
22 data and the model is kind of what you are

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1 saying?

2 MEMBER MUNN: Inappropriate?

3 CHAIR GRIFFON: Yes. Are they the
4 same, John? Is it the same action, those two?

5 MEMBER MUNN: Inappropriate
6 method. Measure inappropriate data --

7 DR. MAURO: Based on the
8 rationale, same thing.

9 CHAIR GRIFFON: Yes. It is the
10 same. Okay. I just wanted to make sure,
11 since I only have the little snippet and you
12 get the whole thing.

13 DR. MAURO: Yes.

14 CHAIR GRIFFON: And then 121.3, I
15 think, is the inhalation side, inhalation and
16 ingestion side of this same equation, right?

17 DR. MAURO: OTIB-9.

18 CHAIR GRIFFON: Use the '78 data
19 again to --

20 DR. MAURO: I'm not sure.

21 CHAIR GRIFFON: I'm asking what
22 I'm assuming, I guess.

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1 MR. HINNEFELD: Actually, that one
2 appears to have used -- here is what the
3 August 20th response was. I'll show that one.

4 CHAIR GRIFFON: Okay.

5 MR. HINNEFELD: Contamination
6 measurements summarized in a July 28, 1949
7 memo indicate contamination levels which are
8 very consistent with the survey conducted in
9 1992, with the exception of two areas all
10 contamination levels were less than 10,000
11 dpm. All contamination levels on the hearth
12 protection plates and guide plates were 15,000
13 and 25,000 and 20,000, respectively.

14 The company narrative and
15 subsequent correspondence, August 23, 1949
16 memo directed that these areas undergo
17 additional decontamination. The survey data
18 is consistent with the measurements of 1992,
19 which would indicate that not only were the
20 levels in '49 similar to those of 1992, but
21 also that the material was not readily
22 dispersable as indicated by the fact that

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1 levels did not decrease in the 43 years since
2 the survey.

3 MEMBER MUNN: Yes.

4 MR. HINNEFELD: NIOSH is not aware
5 of the clean-up levels that were used at the
6 time of, you know, standards at the time of
7 the initial decontamination. However, based
8 on the July 28, 1949 survey records and
9 subsequent correspondence, it would appear
10 that the value used in technical basis
11 document, which is 11,500 dpm per 100 square
12 centimeters, is spastic. So that was the
13 response.

14 DR. MAURO: Okay. So your answer
15 is -- your response is that you did the '49.

16 MR. HINNEFELD: In this case.

17 DR. MAURO: In this case you --

18 (Simultaneous speaking)

19 CHAIR GRIFFON: When was the
20 operational period for this, do you know?

21 MR. HINNEFELD: Well, if I could
22 find it. Oh, so this isn't a TIB-70 issue.

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1 This is really a specific --

2 DR. MAURO: They have data. You
3 have '49 data.

4 MR. HINNEFELD: It sounds like the
5 data we have is from when they were shutting
6 down, because they said --

7 CHAIR GRIFFON: At the end of the
8 operation period.

9 MR. HINNEFELD: At the end of the
10 operation.

11 DR. MAURO: Or what effectively
12 you have done. It's implemented in '70 the
13 most favorable way you could.

14 MR. SIEBERT: Operationally 47 to
15 50.

16 CHAIR GRIFFON: Okay. Okay. So
17 but all I would ask is that -- I don't know if
18 SC&A has seen those. So can I ask?

19 DR. MAURO: May have sent it
20 earlier, but I don't know.

21 MR. HINNEFELD: Well, the memos
22 would be in the SRDB. The August 29th memo

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1 would be in the SRDB database. And I don't
2 know who all I sent this to.

3 DR. MAURO: You may have sent it
4 to --

5 MR. HINNEFELD: I sent it to you.
6 I just did.

7 DR. MAURO: They came in.

8 MR. HINNEFELD: I just -- since we
9 started talking about it.

10 DR. MAURO: Oh, okay.

11 (Simultaneous speaking)

12 DR. MAURO: I can take a look at
13 it.

14 MR. HINNEFELD: And respond.

15 CHAIR GRIFFON: Yes, I'm going to
16 put an action in.

17 DR. MAURO: In principle, that
18 answer sounds pretty good.

19 CHAIR GRIFFON: Yes.

20 MR. HINNEFELD: Yes, the matrix
21 that I'm reading from, I just emailed to
22 everybody here in the room.

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1 MS. BEHLING: Can you include me
2 on the email, Kathy Behling?

3 MR. HINNEFELD: Oh, Kathy, you
4 weren't in the room, so I didn't, but I will
5 right now.

6 CHAIR GRIFFON: Her voice is.

7 MS. BEHLING: See what happens.

8 MR. HINNEFELD: That's what you
9 get for attending by phone.

10 MS. BEHLING: Thank you.

11 CHAIR GRIFFON: Now, 121.4 and .5
12 and .6, I have as a global issue, right? Then
13 121.7, Doug or John, do you have a response?
14 I see we have -- this response has been in
15 there a while, May 30th.

16 MR. FARVER: Yes, I thought we--

17 CHAIR GRIFFON: Or it's NIOSH.

18 MR. FARVER: Yes, it's NIOSH's
19 response.

20 CHAIR GRIFFON: Yes. And then do
21 you have for 121.7?

22 MR. FARVER: I thought we

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1 concurred with that one.

2 CHAIR GRIFFON: You did concur
3 with that one?

4 MR. FARVER: Yes.

5 CHAIR GRIFFON: Okay.

6 MEMBER MUNN: Okay.

7 CHAIR GRIFFON: 121.8.

8 MEMBER MUNN: We concurred.

9 CHAIR GRIFFON: That was like a
10 summary you sent.

11 MEMBER MUNN: Can we close 7?

12 CHAIR GRIFFON: Yes, 7 is closed.

13 MR. FARVER: 8, I guess, you just
14 close that. I don't know that there is --

15 CHAIR GRIFFON: Yes, it is kind of
16 overlapping.

17 MR. FARVER: It shouldn't even be
18 there.

19 CHAIR GRIFFON: So it should just
20 be deleted, right?

21 MR. FARVER: Yes.

22 DR. MAURO: Delete it.

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1 CHAIR GRIFFON: Yes. No finding.
2 It's a summary. Okay. Then so we are off
3 Aliquippa Forge, I guess.

4 DR. MAURO: Simonds Saw.

5 CHAIR GRIFFON: 122.1 and this is
6 Simonds Saw, yes. I think we usually have the
7 AWEs at the front end of these matrices.

8 DR. MAURO: I usually do, yes.

9 CHAIR GRIFFON: Yes.

10 DR. MAURO: Let's first find it.
11 Ah, yes. I remember this. The -- Simonds
12 Saw. The way in which external doses from
13 activity on surfaces emerging were obtained in
14 Simonds Saw were by hanging 20 film badges.

15 MEMBER MUNN: Yes.

16 DR. MAURO: Suspended from the
17 room.

18 MEMBER MUNN: Yes.

19 DR. MAURO: When you read it, it
20 sounds good. And as far as I'm concerned,
21 that is the way to do it.

22 MEMBER MUNN: Yes.

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1 DR. MAURO: However, this guy was
2 a furnace operator. Now, we have information
3 that the guy that worked with the furnace was
4 involved in an area where there was residue
5 and the contamination had a much greater
6 potential for exposure. And I think, I
7 believe -- did you -- I would have said rather
8 than using the median for the full
9 distribution, which I believe is what was
10 used, for this guy I would have used a 94
11 percent out.

12 Because you know, you think of
13 this room, this big complex and you've got all
14 these film badge measurements and you look at
15 the distribution of the film badge
16 measurements, which are probably a very good
17 characterization of what the distribution
18 exposure might have been in that building, but
19 there are going to be places where it's nasty.

20 CHAIR GRIFFON: Yes.

21 DR. MAURO: At the upper end.

22 Now --

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1 CHAIR GRIFFON: Or beyond the
2 upper end. But you figure it out there all
3 the time.

4 DR. MAURO: But if there are
5 places where there is a high end and if it's
6 plausible that there are people that could
7 have worked there for extended periods of time
8 at the higher end, using the geometric means
9 really nothing.

10 My observation was we're talking
11 about a guy who worked as the furnace operator
12 and we have plenty of data on furnace
13 operators, that's the nasty place. So not
14 knowing -- having better information, in this
15 case, I think using the upper end of the
16 distribution of the film badge ratings, but
17 probably would have been more appropriate to
18 this particular worker.

19 CHAIR GRIFFON: Well, this is a
20 question where I would question whether the
21 upper end is even bounding for this person,
22 because of the way you described the, you

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1 know, exposure measurements from the ceiling.

2 You are going to get the workers that are
3 around the areas, but if he is inside and --

4 DR. MAURO: Well, I mean, this
5 experiment --

6 CHAIR GRIFFON: You need exposure
7 environment.

8 DR. MAURO: Yes. Well, I mean, I
9 understand what you're saying.

10 CHAIR GRIFFON: Yes.

11 DR. MAURO: To me, I mean, it's
12 every time you reach a certain point in these
13 kinds of reconstruction you say, okay, you
14 know, what do you do? You know, and yes, it
15 might be even higher, but, to me, picking off
16 the upper end where you have a distribution of
17 values and if there is reason to believe that
18 the particular person you're dealing with
19 probably experienced something closer to the
20 higher end of the distribution than the
21 median, there's reason to believe that, which
22 I think there is in this case, I just go -- I

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1 just say why don't you use a higher end value?

2 CHAIR GRIFFON: But you are not
3 answering my question. What's your reason to
4 believe that it's not higher than that?

5 DR. MAURO: I don't have a reason
6 to believe that.

7 MEMBER MUNN: Well, sure you do.

8 CHAIR GRIFFON: Because I don't
9 know what the external exposure rates would be
10 in that furnace operation compared to the
11 general --

12 DR. MAURO: Well, we want --

13 CHAIR GRIFFON: You take the
14 general area external rates, basically, is
15 what you are getting with this.

16 DR. MAURO: Well, you know --

17 CHAIR GRIFFON: Those hanging
18 samples.

19 DR. MAURO: -- in general, the --
20 I think it's bounded. You know that the dose
21 from an infinite slab --

22 CHAIR GRIFFON: Right. You can

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1 certainly bound that.

2 DR. MAURO: -- is 2 mr per hour,
3 at one foot. Okay. Now, so, I mean, you want
4 to go to the extremes, you can just assume 2
5 mr per hour at one foot as being the external
6 exposure, maximum external exposure that a
7 person possibly could experience in the
8 uranium facility. Penetrating radiation 2 mr
9 per hour at one foot, you can't get more than
10 that.

11 MEMBER MUNN: Right, no.

12 DR. MAURO: And I don't know where
13 that -- the 90 percentile --

14 CHAIR GRIFFON: Which I don't know
15 what the number is.

16 DR. MAURO: Yes, well, right.

17 CHAIR GRIFFON: You know, yes.
18 That's the only reason I'm raising the
19 question then for that number.

20 DR. MAURO: Now, I mean, if you
21 want to get into it, we'll see what number,
22 you know, what digit you use. Do we have a

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1 dose rate that they used? What was the -- was
2 it .26 mr? There it was. I think you used
3 .26 mr per hour at the geometric -- no, I'm
4 sorry. For penetrating rates, geometric --
5 okay.

6 I believe, according to the write-
7 up, you used .26 mr per hour as the geometric
8 lead. Okay. Now, in my opinion, if you went
9 with the upper end, what would the upper end
10 come to? Did I give the number here?

11 CHAIR GRIFFON: I don't believe
12 you did.

13 DR. MAURO: Okay. Well, anyway,
14 in theory, it could have been 10 times higher.

15 In other words, if you wanted to -- say
16 what's the off the charts highest it could
17 have been? It could have been 10 times higher
18 for this guy, you know, if he was 1 foot away
19 from the infinite slab of uranium.

20 I didn't say that is what you
21 should use. I just said that --

22 CHAIR GRIFFON: I think Scott has

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1 got the numbers.

2 DR. MAURO: Yes, he may have it
3 there.

4 MR. SIEBERT: Actually, I was
5 looking at something else.

6 CHAIR GRIFFON: Oh, you were
7 looking at something else. Okay.

8 MR. SIEBERT: To see if we signed
9 that as a consent or --

10 DR. MAURO: We got the geometric
11 standard that was -- the geometric standard --
12 okay. If I have a geometric mean of 2.6 mr --

13 CHAIR GRIFFON: .26.

14 DR. MAURO: .26 mr per hour and
15 the geometric standard deviation of 1.2, are
16 there any statisticians in the room? What
17 would that give you for the 95th percentile?

18 MR. HINNEFELD: I don't do that.
19 I don't juggle.

20 CHAIR GRIFFON: Close.

21 MR. HINNEFELD: What is the GSD?

22 DR. MAURO: The little equation.

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1 MR. HINNEFELD: GSD was what, 1.?

2 DR. MAURO: 1.2.

3 MR. HINNEFELD: Yes.

4 DR. MAURO: Multiply by 3.

5 MR. HINNEFELD: You take that, you
6 take 1.2 to the 3rd power and multiply that
7 number times the geometric.

8 DR. MAURO: Yes. So instead of
9 being .26 --

10 MR. HINNEFELD: .6/.7.

11 DR. MAURO: .6/.7. So I would
12 have come in at .7. You would have come in at
13 something maybe as high as 2.

14 MR. HINNEFELD: Well, no.

15 DR. MAURO: I mean, that would be
16 off the charts. Well, as far as I'm
17 concerned, here is the place where you have to
18 make a judgment call.

19 MR. HINNEFELD: Yes.

20 DR. MAURO: You know, if you would
21 have went with the upper -- say the 94
22 percentile or the 84 percent, in other words,

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1 an upper end number as opposed to the median
2 number. It probably would have been better
3 for this guy, because has a furnace operator.

4 If he were like a supervisor that
5 roamed the floor, you know, he was just sort
6 of like everywhere, then I would say yes, go
7 with the geometric mean.

8 MR. HINNEFELD: Okay. I
9 understand your point. I understand certainly
10 the 95th percentile as you describe it. In
11 fact, Jim and I have had a recent discussion
12 about 94 percentiles. And in this instance
13 where you have a series of measurements and
14 there is a measurement that you would expect
15 to relate to the, quote, worst area in the
16 plant and there is a reasonable likelihood
17 that people's job put them in that location.

18 DR. MAURO: Right.

19 MR. HINNEFELD: Not worst, but
20 highest measure.

21 DR. MAURO: All right.

22 MR. HINNEFELD: The highest

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1 measure value.

2 CHAIR GRIFFON: That was my
3 question.

4 MR. HINNEFELD: Yes.

5 CHAIR GRIFFON: Is does it
6 represent that? I'm not sure that it does.

7 MR. HINNEFELD: And so there is a
8 chance our person were assigned to work in
9 something like that, I mean, weren't assigned,
10 not everybody was assigned to work throughout,
11 then at that -- that's the kind of thought
12 process where you can say okay --

13 DR. MAURO: That's just common
14 sense.

15 MR. HINNEFELD: -- NIOSH
16 distribution with the 95th. Okay. So I
17 understand that.

18 CHAIR GRIFFON: So is .7 good?

19 MR. HINNEFELD: When we deal with
20 these though, let's go context. We're talking
21 now about the immersion and contamination
22 dose. Not from standing close to uranium.

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1 We're talking about immersion and
2 contamination in a contaminated -- in a
3 uranium contaminated environment. That's the
4 component we are talking about.

5 And I think when you start to look
6 at the value and what, you know, value did we
7 arrive at, I think you can be informed by what
8 were the doses that were assigned overall,
9 because there is also a component in this dose
10 reconstruction of the dose that the person
11 got, because they were standing next to the
12 uranium.

13 DR. MAURO: Okay.

14 MR. HINNEFELD: Okay. So that's
15 an additional component that is added in. And
16 so you take that total external dose --

17 DR. MAURO: Yes, I get you.

18 MR. HINNEFELD: -- where this
19 model is assigned, I don't even know what it
20 is, but you take the total external dose model
21 assigned and compare it to what you know about
22 measured doses in uranium handling facilities.

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1 And I think that could be important.

2 DR. MAURO: I really remember
3 doing this one. The real dose is going to
4 come -- see that's going to be a small
5 contributor of the dose.

6 MR. HINNEFELD: Right.

7 DR. MAURO: The real dose is that
8 he was -- he basically worked at -- the fault
9 exposure matrix in this facility had a person
10 standing next to what they call these little
11 rods, billets, billets and rods. In other
12 words, he was a furnace operator. So his dose
13 has got -- his real external dose is not going
14 to come from some residue on the floor.

15 MR. HINNEFELD: Right.

16 DR. MAURO: Although, if you go to
17 .7 mR per hour it might. That's pushing it.

18 MR. HINNEFELD: Yes, but we'll get
19 back to my point that I made.

20 DR. MAURO: We'll just have to --
21 but now, the important point is -- though is
22 the proximity to the rods and billets is where

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1 you get your external exposure at this
2 facility. Not so much from residual
3 radioactivity.

4 MR. HINNEFELD: Right.

5 DR. MAURO: Even though our during
6 operations would -- we're talking during
7 operations. You can picture during
8 operations, you've got airborne dust, which is
9 not really going to contribute very much at
10 all externally. You've got this little dust
11 on the ground, that's not going to contribute
12 that much.

13 But then you have billets and rods
14 and swags --

15 MR. HINNEFELD: And materials.

16 DR. MAURO: -- and the guys up
17 close in person. Now, in this case, I
18 remember my concern was there is a default
19 assumption regarding how much time you spend
20 next to a rod and how much time you spend next
21 to a billet.

22 MR. HINNEFELD: Right.

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1 DR. MAURO: And each one is a
2 pretty -- there is a difference in the dose
3 rate of about a factor of 2, because of the
4 geometry. Now, stuff comes back to you. He
5 is a furnace operator. He is only going to
6 operate -- he is not going to spend too much
7 time -- I think he has spent most of his time
8 with the material that has to be heated before
9 you roll it out.

10 So it starts with the billet. So
11 his external exposure is going to get up close
12 and personal to billets and not rods.

13 MR. HINNEFELD: Okay.

14 DR. MAURO: All right. Because he
15 is a -- he is heating the stuff up, yes. And
16 the billets, if I recall, have a higher
17 exposure rate. Billets have, here it is, an
18 exposure rate that is about twice the rods.
19 So the bottom line is I think that if you were
20 to tailor the dose, in other words, you just
21 went through the standard approach and the
22 exposure matrix.

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1 MR. HINNEFELD: One size fits all.

2 DR. MAURO: One size fits all. I
3 would argue that in this case, as a matter of
4 fact when I -- the write-up says here is a guy
5 that we have some more information on. He was
6 a furnace operator. And on that basis, for
7 two reasons, maybe we could have done a better
8 job in doing these external exposures.

9 One, the more important one is he
10 probably spent most of his time next to
11 billets and not rods where the dose rate is
12 about twice as high.

13 And second, he probably was in the
14 area where the residual radioactivity might
15 have been a little higher for the same
16 reasons, because, you know, there's a lot of
17 spark in that junk and they shovel, they use
18 the furnace also to shovel the residue in.

19 CHAIR GRIFFON: Okay. So, John,
20 you are under 122.3 really.

21 DR. MAURO: Okay. Well, but yes.
22 I expect you to --

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1 CHAIR GRIFFON: So 122.1, I think,
2 that is right. I was thinking wrong. I was
3 thinking it was during the residual period.

4 DR. MAURO: This is during
5 operations.

6 CHAIR GRIFFON: Yes.

7 DR. MAURO: This is during
8 operations.

9 CHAIR GRIFFON: I see that's only
10 from the submersion. I thought it was your
11 entire area.

12 DR. MAURO: Yes, this is during
13 operations.

14 CHAIR GRIFFON: Yes.

15 DR. MAURO: 49 was during
16 operations, right?

17 CHAIR GRIFFON: Yes.

18 MR. HINNEFELD: 49 was during
19 operations.

20 DR. MAURO: So in the end now,
21 what we are talking about from an external
22 point of view, I guess, mainly because of this

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1 billet versus rod business, we might have
2 underestimated dose by a factor of 2 external.

3 How important that is for this guy's cancer,
4 you know? I'm not sure. But I think you
5 might have been low by about half.

6 CHAIR GRIFFON: Yes.

7 DR. MAURO: You can easily see a
8 person saying if I wanted to tailor --

9 CHAIR GRIFFON: You are saying
10 billets versus rods, in fact, are two
11 different -- but what is the actual number for
12 those?

13 DR. MAURO: You would have to go
14 to the summary table. Where is the external
15 summary table? Somewhere are the doses. It's
16 right in the beginning.

17 CHAIR GRIFFON: I mean, it's more
18 significant than the submersion issue?

19 DR. MAURO: And internal could be
20 the whole -- here it is. Internal is an old
21 dried up newspaper. I need the summary table.

22 Okay. Here. Okay. You just left it. What

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1 happened? You know each one of these dose
2 reconstructions we make like a little summary
3 table of the contribution from during
4 operations external, residual versus the
5 source, you know.

6 MEMBER MUNN: Right.

7 DR. MAURO: And the summary table
8 is what we're trying to zero-in on and for
9 some reason it won't stay.

10 CHAIR GRIFFON: It won't stay on
11 the screen. All right.

12 DR. MAURO: Use the arrow.

13 CHAIR GRIFFON: I'm trying.

14 DR. MAURO: The important point
15 now when you go through the summary table, if
16 external exposure is a drive-up, in this case,
17 and it might be, it may not be, you have to
18 take a look at the table, but I didn't do it
19 that way, I swear.

20 MS. BEHLING: The external is the
21 driver here.

22 DR. MAURO: So the external is the

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1 driver. So if you double the external, you're
2 going to have a significant effect on the
3 dose. What's the POC? Do you know, Kathy,
4 off hand?

5 MS. BEHLING: 28 percent.

6 CHAIR GRIFFON: 28, yes.

7 DR. MAURO: It may not reverse it.

8 CHAIR GRIFFON: Right, right.

9 DR. MAURO: You have to look at
10 it. I don't know. 28. In other words, it's
11 not linear.

12 MS. BEHLING: No.

13 MR. HINNEFELD: It's not linear.

14 CHAIR GRIFFON: So let's go back
15 to 122.1 though, the submersion dose. Now,
16 that you realize that -- I mean, it seems like
17 the heavier weight of the dose is from the
18 external. The billets -- the rods and the
19 billets.

20 DR. MAURO: Yes, if you look at--

21 CHAIR GRIFFON: For 122.3 my
22 resolution right now --

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1 DR. MAURO: Right. The residual -
2 -

3 CHAIR GRIFFON: -- there is no
4 resolution. The SC&A feels that it may not be
5 bounding for this particular worker. That's
6 for 122.3. But 122.1 I'm going back to the --

7 DR. MAURO: Residual.

8 CHAIR GRIFFON: -- submersion
9 stuff.

10 DR. MAURO: Yes. In other words,
11 right now, I'm looking at the summary table.
12 They assigned 3 rem to the precision
13 radioactivity period. External drm, that's
14 residual.

15 CHAIR GRIFFON: No.

16 DR. MAURO: Okay. I'm sorry.
17 Anyway, the dose from operations, when he is
18 operating, when he is next to the billets and
19 rods and he is also submersed, that's most of
20 the dose. It's 8 rem. That -- my guess is
21 that could easily go into 16 then, if you were
22 to be able to, you know, use the approach I

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1 described.

2 And you know, to me, that sounds
3 like in this case it might be -- it will
4 certainly drive up the POC, whether it will be
5 submersed or not. We didn't have this -- I
6 mean, we never get this kind of detail --

7 CHAIR GRIFFON: Right.

8 DR. MAURO: -- in these meetings,
9 but now that we are, you know, I think that's
10 my problem.

11 MS. BEHLING: This is Kathy. I
12 guess the question is when -- my question is
13 NIOSH considered this an overestimate. This
14 person was a furnace operator. At what point
15 would NIOSH have considered the 95th
16 percentile as opposed to the 50th? Just to
17 me, it seems like one of those cases you
18 should have considered the 95th.

19 I guess, I just -- it's a question
20 of not necessarily for this case, but what's
21 the philosophy? At what point -- and at what
22 -- who -- what worker would you use 95th

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1 percentile?

2 MR. HINNEFELD: Well, Kathy, as a
3 general rule, when we write a site profile
4 dose model for a AWE, we try to write it
5 sufficiently that it will bound any of the
6 workers and do a one size fits all dose
7 reconstruction, because that's just
8 logistically easier to do that, to make sure
9 you cover everybody.

10 DR. MAURO: In defense, I mean, of
11 your position in the write-up, they assume
12 that the worker -- one size fits all. I think
13 you spend four hours a day at about 1 foot
14 from a billet.

15 CHAIR GRIFFON: Three and a half.

16 DR. MAURO: Three and a half.

17 MR. HINNEFELD: Three and a half.
18 You've got it there.

19 CHAIR GRIFFON: Right.

20 DR. MAURO: And now, so from that
21 perspective, the reality is this guy probably
22 spent most of his time pretty close to the

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1 billet. Now, whether he spent 6 hours --

2 CHAIR GRIFFON: Right.

3 DR. MAURO: No. Probably --

4 CHAIR GRIFFON: Probably not.

5 It's pretty hot.

6 DR. MAURO: So what I'm getting at
7 is we're in a situation where I would think
8 you step back and look at what you did. Even
9 though -- you know, within the context of a
10 model you have built, I think the fundamental
11 context is favorable. The fact that you would
12 make an assumption that for all workers, we're
13 going to assume that 50 percent of the time is
14 1 foot from a billet, 50 percent of the time
15 he is 1 foot from a rod.

16 That alone, putting your guy that
17 close, is itself a conservative assumption.
18 Now, given that that's your base, that that's
19 how you are coming at the problem, you know,
20 then you say to yourself well, now that we
21 have a guy who we know probably spent most of
22 his time next to billets and maybe operating

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1 in an area that had a little bit more
2 radioactivity because it was a furnace, you
3 know, does that conservatism -- is that sort
4 of overarching conservatism built into the
5 matrix?

6 It is enough to account for the
7 fact that you really haven't tailor to him,
8 you know? So you get --

9 MR. HINNEFELD: So that's exactly
10 the question.

11 DR. MAURO: That's the question.

12 MR. HINNEFELD: And so you said --
13 now, you said in your summary that the dose
14 during operations was something like 8 rem.

15 DR. MAURO: Yes.

16 MR. HINNEFELD: That's the dose.
17 Do we know how many --

18 DR. MAURO: Oh, the time period?
19 It's in there. We would have to look at it.

20 MR. HINNEFELD: Okay.

21 DR. MAURO: Right.

22 MR. HINNEFELD: Because of --

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1 recall now, this was an AWE and as I
2 understand this -- this is just what she was
3 saying?

4 DR. MAURO: It's usually five
5 years or whatever.

6 MR. HINNEFELD: This is Simonds
7 Saw.

8 CHAIR GRIFFON: 48 to 57.

9 DR. MAURO: 48 to 56, good guess.
10 All right, 46 years.

11 MR. HINNEFELD: So for 48 to 57.
12 That was for operational period or was that
13 dose?

14 MR. FARVER: That was the
15 operations.

16 DR. MAURO: This time here.

17 MS. BEHLING: 44 to 69.

18 DR. MAURO: Okay. So we use
19 different --

20 MR. HINNEFELD: For the 8 year
21 period there, you've got about a 1 year.

22 DR. MAURO: Right.

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1 MR. HINNEFELD: Okay. So you've
2 got about a rem a year.

3 DR. MAURO: A rem a year or 2 rem
4 a year.

5 MR. HINNEFELD: Or 2.

6 DR. MAURO: Then you have --

7 MR. HINNEFELD: Now, this is what
8 -- at Simonds Saw Steel, which, I believe,
9 mainly gives steel during those eight years.

10 DR. MAURO: That's right. Oh,
11 yes.

12 MR. HINNEFELD: And it is in the
13 uranium periodically.

14 DR. MAURO: That's right. That's
15 right.

16 MR. HINNEFELD: Okay. Now, you
17 compare those numbers to say the annual doses
18 that Fernald received, workers at Fernald that
19 machine, end rolls, and heated --

20 DR. MAURO: Everything.

21 MR. HINNEFELD: -- every day all
22 day long and they are about a rem a year. I

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1 mean, the highest they saw at the end of --
2 you know, well, actually once the ore was gone
3 and they weren't dealing with the ore any
4 more, they were about a rem a year was the
5 highest photon exposure you ever saw at
6 Fernald.

7 So given those facts and the fact
8 that you have a site that is intermittently
9 using uranium and likely in close proximity
10 and not with a lot of controls, but give those
11 facts, we felt like a rem a year probably
12 would bound even the more highly exposed
13 people from this intermittent uranium job.

14 And so we felt pretty comfortable
15 with a rem a year.

16 DR. MAURO: I am completely
17 sympathetic to your situation. But put
18 yourself in our situation. We --

19 MR. HINNEFELD: Sure.

20 DR. MAURO: -- are getting
21 exposure matrix. Okay. If you look at the
22 exposure matrix, and we say this is generally

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1 the reason, I'll be the first to say assuming
2 three hours or two and a half, whatever, three
3 and a half hours per day 1 foot away from the
4 billet and 1 foot -- that's pretty good. She
5 is bounded. All right.

6 And there is my frame of reference
7 now. Within that frame of reference, which is
8 what you are going to apply to everybody that
9 works there, okay. Now, then I asked myself
10 so if I were doing a bunch of people and along
11 comes a guy that I know did something a little
12 different which would put him -- you know, in
13 the end, I would say yes, you're probably
14 right. No one really got more than that.

15 But at the same time, given the
16 matrix that we have designed and that were
17 within that, I have no choice but to say well,
18 how does -- you know, I have to fact -- if
19 you're going to use it after everybody, there
20 will be some people that within that matrix
21 probably are going to be more toward the
22 higher end than a couple.

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1 And so in a way, it's almost like
2 a Catch-22. I agree that your fundamental
3 nature is claiming favorable. And within that
4 context, which is a one size fits all, I do
5 find that well, in this particular person's
6 situation, I could find some fault where I
7 could easily say no, maybe we should have
8 doubled it.

9 But then you counter your argument
10 the other way and no ones gets through it
11 every year. I said yes, I have a hard time
12 arguing with that, but I'm not reviewing it
13 within that context. I'm reviewing it on its
14 own merits as an exposure matrix that I'm
15 going to see whether and how well it applies
16 to the person that we are reconstructing the
17 doses for. And so I come up with my findings.

18 MR. HINNEFELD: Well, I certainly
19 understand why you always did, you know,
20 that's not the issue here. I think in terms
21 of an action to follow after this and what our
22 position would be is that we in all these

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1 instances, when you are trying to reconstruct
2 a dose from less than -- from less information
3 than you would like to have, when you come up
4 with a number, you want to have some sort of
5 feel good that well, this seems to be like in
6 the ballpark and we seem like we're not going
7 to give anybody the short end of the stick by
8 using this, you know, at the back end.

9 And so when you set up a model,
10 you know, as you said, you know, we set up
11 this really favorable time limit there and
12 then maybe we were not as favorable in
13 everybody's case as we could be in terms of
14 what dose reconstruction.

15 But we would recognize that as
16 well, you know, we are trying to set these
17 things up appropriately. But having arrived
18 at a number then on the back end, then you
19 look and see well, how does this compare with,
20 you know, what we would expect the experience
21 to be at sort of this kind of site?

22 In this instance, simply placed at

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1 uranium all day long every day, got doses up
2 around a rem, we wouldn't expect these guys to
3 get a rem of exposure. But since we gave them
4 a rem, let's leave it there and we will bound
5 them to this one size fits all. So that's how
6 we complete these things. That's how we say
7 okay.

8 CHAIR GRIFFON: Although that was
9 earlier, so you could say --

10 DR. MAURO: But no wait, let me
11 finish. There's more to the story.

12 CHAIR GRIFFON: They didn't run
13 all the time.

14 DR. MAURO: No, there's more to
15 the story.

16 CHAIR GRIFFON: Yes.

17 DR. MAURO: Bethlehem Steel that
18 was in exactly the same situation just there
19 on weekends. They assigned 2 mR per hour.
20 The worst possible situation. In that case,
21 they assumed the guy was 2 -- got 2 mR per
22 hour which is -- and you can't get worse than

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1 that.

2 CHAIR GRIFFON: Right.

3 DR. MAURO: To an infinite slab.

4 Now, so what do we do? And this is important.

5 CHAIR GRIFFON: Back to the issues

6 there.

7 DR. MAURO: Now, we have parity
8 issues here, you know.

9 CHAIR GRIFFON: Yes.

10 DR. MAURO: I don't know where we
11 go with this, to tell you the truth. It's a
12 very difficult situation.

13 MR. HINNEFELD: Well, I mean, I
14 can take it back and get other people and me
15 talking about it and maybe get a better
16 position out of the office, but, you know,
17 right now, this is me sitting here talking.

18 DR. MAURO: Yes.

19 MR. HINNEFELD: But again, I think
20 you need -- that's not bad. I mean, that is
21 an issue to concern yourself with.

22 DR. MAURO: Yes.

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1 MR. HINNEFELD: But I think site
2 to site parity becomes really difficult.

3 DR. MAURO: Yes.

4 MR. HINNEFELD: You know, really
5 difficult. And yes, we would like to -- and
6 temporal, you know, parity temporally over the
7 lifetime of this program becomes very
8 difficult.

9 DR. MAURO: And I agree.

10 MR. HINNEFELD: So I think that,
11 you know, from our standpoint, we feel like we
12 have a dose model there, whether you want to
13 argue with the dose rate versus time of
14 exposure kind of trade off that was selected
15 and say it should have been a combination of
16 those things, we feel like the end point where
17 we ended up is bounding when we work
18 intermittently.

19 DR. MAURO: You know, I have to --
20 maybe it's a packaging problem.

21 MR. HINNEFELD: Right.

22 DR. MAURO: You know, when I

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1 review an AWE, I look at the construct. And
2 then I look at whether the fundamental
3 construct is sound. And then I say okay, now
4 let me apply that construct to this case and
5 I'll see if, in fact, you are being a claimant
6 -- site that was claiming failure to this
7 particular worker.

8 Here is a case, one of the unusual
9 cases where I found the construct valid,
10 because, you know, in a lot of cases I don't,
11 but in this case I found the construct valid,
12 but as it applied to this case it wasn't.

13 Now, in theory, you could come up
14 with a construct here that was -- I mean, for
15 the same reason Bethlehem Steel. Listen,
16 we're just going to assign everybody to an mR
17 per hour. That is a valid circumstance. 1
18 foot away in infinite slab, that's the end of
19 story, but you didn't. You decide to refine
20 the construct a little bit.

21 You know, I guess, if you were to
22 say if this report was listed, we are just

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1 going to assume that everyone at this place
2 got one rem marker. You got one rem per year.

3 Okay. And here is the reason. And you
4 explore all these different strategies that
5 you could review. You could go with the
6 Bethlehem Steel report. Take a look at all
7 the data.

8 Almost like a concert you go to
9 with TBD-6000 and say in the end, we're not
10 going to try to make it too mechanistic,
11 because once we start getting mechanistic, it
12 sounds like we are trying to be realistic and
13 we are trying to really represent what really
14 happened at this facility.

15 And once you go down that road,
16 you leave us with no choice but to evaluate it
17 against that construct and its realism and how
18 you apply it. So it's a Catch-22, you now.

19 CHAIR GRIFFON: Yes.

20 DR. MAURO: So now, I don't know
21 if you all are following this, but the -- I
22 would say that you have adopted a philosophy

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1 for each site to the best of your ability,
2 you're going to create an exposure matrix.
3 And I think that's the right strategy. You do
4 the best you can to come up with an exposure
5 matrix for that site. That will be one size
6 fits all more or less and apply to all
7 workers.

8 But then I would -- and I think
9 that's the right strategy to take and not back
10 off and just universally apply 2 mR per hour
11 to everybody. I don't think that's right. I
12 think that you do come up with a construct.
13 But at the same -- well, once you go down that
14 road, which is a scientifically sound road, I
15 think that trying to tailor it to the
16 particular worker is just simply tweaking the
17 construct a little bit, which gives it greater
18 credibility and acceptability to all those
19 concerned.

20 So in this case, I would -- you
21 know, even though you could make cogent
22 arguments Y-2R per year probably doesn't

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1 really make sense because of the experience,
2 etcetera, etcetera, and for all the reasons we
3 are talking about.

4 But I think once you build a
5 construct that is your fundamental structure,
6 I think you have got a limiting index. You
7 build that house and you've got to live in it
8 now. And sort of -- and then you have to
9 apply it. And then you have to apply the work
10 there as best you can.

11 And I think that's the philosophy
12 of how you come out these AWEs. So as far as
13 I'm concerned, I think you are on the right
14 track. I think by building these facility-
15 specific one size fits all is the right way to
16 start. But then once you start the
17 application, I think, if I were doing it, I
18 would say okay, let me think a little bit
19 about this particular guy and whether that --
20 how that construct plays out for him.

21 And not back away and say wait a
22 minute, we don't like the construct in the

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1 first place. You see, that's what you just
2 did. You said hey, you know what, really the
3 --

4 MR. HINNEFELD: But really the
5 construct is a big deal, right.

6 DR. MAURO: It is. If you build a
7 contract -- if you build a house --

8 CHAIR GRIFFON: Right.

9 DR. MAURO: -- you live in it.

10 MR. HINNEFELD: Yes, that's a good
11 point.

12 MEMBER MUNN: Is the action item
13 here though fairly straightforward? Is it not
14 just simply requiring a response from --

15 CHAIR GRIFFON: Yes.

16 MEMBER MUNN: -- an appropriate --
17 so basically, we --

18 CHAIR GRIFFON: The validity of
19 this model for the work.

20 MEMBER MUNN: -- are discussing
21 here and even if we go the route of saying in
22 this particular case we had better information

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1 about the work conditions of this worker.

2 CHAIR GRIFFON: Well, I think
3 there is --

4 MEMBER MUNN: And we will
5 therefore recalculate it and give it a new
6 number.

7 MR. HINNEFELD: Well, I kind of
8 like John's suggestion. If we can describe,
9 what are the possible avenues here? What do
10 we know? What's the compendium information we
11 now know about the sites that work with this
12 kind of material? And what kind of options
13 does that leave us with here? And what else
14 do we know? And based on that, what are we
15 going to do?

16 Rather than build a model with
17 maybe a questionable -- and then maybe, you
18 know, based on how we build the model doesn't
19 fit the highly exposed person, and say yes, at
20 the end, well, it still does anyway.

21 DR. MAURO: Yes, you know, it is
22 so --

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1 MR. HINNEFELD: I would love to do
2 that. You probably don't want me to.

3 DR. MAURO: Well, no, I mean, I
4 can -- I hear the argument, but then what did
5 you go to the classroom for?

6 MR. HINNEFELD: Yes, all right.

7 CHAIR GRIFFON: That covers 122.1
8 and 3, I think, for both, you know. NIOSH is
9 going to go back and check on that. 122.4 and
10 5 are those global issues again. And 122.6 is
11 I have transferred to the uranium TIB. Is
12 that TIB-53? I keep forgetting the number on
13 that.

14 DR. MAURO: That is 53.

15 CHAIR GRIFFON: Yes. The question
16 now, I'm not even sure that is a TIB-53 issue
17 though, because your response is fairly
18 specific in this one. And I don't know if
19 SC&A had a chance to follow-up on this, but
20 you're basically saying what you were saying
21 before, that this stuff came from Fernald and
22 Hanford and the numbers are consistent with

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1 the tech-based documents from those sites.
2 And therefore that's --

3 MR. HINNEFELD: And again, here
4 was the additional research that was being
5 done in order to --

6 CHAIR GRIFFON: Right.

7 MR. HINNEFELD: -- compare the
8 OTIB --

9 CHAIR GRIFFON: Right.

10 MR. HINNEFELD: -- may, in fact,
11 reveal additional information that may be
12 random or it may not.

13 CHAIR GRIFFON: Right.

14 MEMBER MUNN: So NIOSH intends to
15 revisit this.

16 MR. HINNEFELD: Well, yes. OTIB-
17 53 is an active. It's not well --

18 CHAIR GRIFFON: All right, well --

19 MR. HINNEFELD: -- it's an active
20 issue with us right now.

21 CHAIR GRIFFON: I guess we will
22 leave it at TIB-53. We understand that. But

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1 it may end up being a --

2 MEMBER MUNN: So it will have
3 bearing on this.

4 CHAIR GRIFFON: Yes, it will have
5 bearing on it. It may end up being a site
6 profile question though.

7 MR. HINNEFELD: Maybe a site
8 profile question.

9 CHAIR GRIFFON: Right. Rather
10 than a --

11 MR. HINNEFELD: I mean --

12 CHAIR GRIFFON: -- resolution.

13 MR. HINNEFELD: The resolution
14 would be in the Simonds Saw profile.

15 CHAIR GRIFFON: Right. Okay.

16 MR. HINNEFELD: I believe there is
17 one of those.

18 CHAIR GRIFFON: Yes.

19 MEMBER MUNN: Yes, I think so.

20 CHAIR GRIFFON: All right. 122.7
21 starts the thorium questions, I think. And I
22 don't have -- you might have added a response.

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1 I don't have a NIOSH response.

2 MEMBER MUNN: No, none there.

3 CHAIR GRIFFON: I don't have it in
4 this matrix. I guess that might be an action.
5 That might be one you overlooked or whatever.

6 MR. HINNEFELD: I believe it is --
7 well, it may be out there for us to provide
8 something. It may be something that I've got
9 in a note from the meeting. I, unfortunately,
10 forgot to bring my notes from our previous
11 meetings and so I don't have anything. I
12 don't know if we did anything on that or not.

13 CHAIR GRIFFON: I don't have
14 anything written nor in my updated matrix.

15 MR. HINNEFELD: There were a
16 number of things from the August 20th meeting
17 that I wrote on those notes. I needed to get
18 additional information.

19 CHAIR GRIFFON: Okay.

20 MR. HINNEFELD: To get back to the
21 Subcommittee. Some of those got done and not
22 all of them, I don't think.

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1 CHAIR GRIFFON: Okay.

2 MR. HINNEFELD: So this may be --
3 I'll have to reconstruct it.

4 CHAIR GRIFFON: All right. All
5 right. Then 122.8 and .9 are again the
6 standard issues, right, inhalation of and the
7 resuspended residual --

8 DR. MAURO: One is the resuspend
9 the --

10 CHAIR GRIFFON: Yes. And
11 ingestion. 122.10, I have no further action,
12 additional cancer was added in March 2008. So
13 I have that item as being closed. Is that --

14 MR. HINNEFELD: What number was
15 that again?

16 CHAIR GRIFFON: 122.10. Interview
17 information is not consistent with data used
18 in the DR. And I don't know if you have the
19 whole finding there, John, but I think --

20 DR. MAURO: I was looking for it,
21 yes.

22 CHAIR GRIFFON: Yes, I think there

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1 must have been another cancer.

2 MR. HINNEFELD: There must have
3 been another cancer.

4 CHAIR GRIFFON: Yes, and it was
5 the other day. So that does close it.

6 MEMBER MUNN: So we are waiting
7 for something for -- data from DOL as to
8 whether or not this --

9 MR. HINNEFELD: If the claimant --
10 I mean, when a claimant brings this stuff to
11 us, we always tell them we can't change that.
12 We will tell DOL that you told us that, but
13 you need to provide your evidence to DOL. And
14 I mean we call it a secondary cancer, if they
15 know what the primary is, is non-
16 reconstructive. And so someone says well, you
17 know, I also had cancer of the stomach or
18 liver. And people already have that
19 information and actually metastasized from the
20 primary, that would not change for those
21 reconstructions.

22 CHAIR GRIFFON: So as I understand

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1 this, if you after this finding came to your
2 attention, maybe you alerted DOL or --

3 MR. HINNEFELD: I don't know --

4 CHAIR GRIFFON: I'm not sure of
5 what happens.

6 MR. HINNEFELD: -- if we did or
7 not.

8 CHAIR GRIFFON: Here is what
9 happened. I guess it does raise the question
10 of if something comes out in an interview,
11 even though it's up to the claimant to bring
12 that to DOL really wouldn't NIOSH also need to
13 tell DOL?

14 MR. HINNEFELD: Okay. We do. We
15 tell DOL that --

16 CHAIR GRIFFON: Right.

17 MR. HINNEFELD: -- the claimant
18 said they have a condition.

19 CHAIR GRIFFON: Right. And --

20 MR. HINNEFELD: We tell the
21 claimant we can't change that, you need to
22 provide your evidence to the Department of

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1 Labor.

2 CHAIR GRIFFON: Yes, right.

3 MR. HINNEFELD: Now, once we do
4 those things, then we can consider ourselves
5 done.

6 CHAIR GRIFFON: Right, right,
7 right.

8 MR. HINNEFELD: Presumably, if it
9 is verified, it will show back up. DOL will
10 reopen the case and send it back to us to
11 rework.

12 CHAIR GRIFFON: Okay.

13 MEMBER MUNN: So our only action
14 here would be that NIOSH confirm that they
15 have --

16 MR. HINNEFELD: Well, see this
17 is --

18 MEMBER MUNN: -- a record of
19 notifying DOL.

20 MR. HINNEFELD: We are long after
21 this. I don't know. I'll have to see. I
22 don't know what kind of a record we would

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1 have. We would have -- you know, they have
2 said this during -- they would have said it
3 during close out interview. We may or may not
4 have indicated at the time in the phone log
5 that we told them.

6 CHAIR GRIFFON: Right.

7 MR. HINNEFELD: I don't know what
8 we indicate in the phone log. And that would
9 be the only record we would have had.

10 MEMBER MUNN: Oh, I mean,
11 notification of DOL, not of the claimant.

12 MR. HINNEFELD: Oh, I don't know.
13 Well, again, years ago.

14 MEMBER MUNN: Yes.

15 CHAIR GRIFFON: Well, this -- yes,
16 the petition might have been later, but I
17 don't know. I don't know.

18 DR. MAURO: It's in the -- yes.

19 CHAIR GRIFFON: It would be worth
20 looking at the correspondences to see who said
21 what to whom and when, you know.

22 MEMBER MUNN: Just to verify that

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1 DOL was notified.

2 CHAIR GRIFFON: Right, right.

3 MR. HINNEFELD: Well --

4 MEMBER MUNN: Then this finding
5 goes away.

6 MR. HINNEFELD: I'm just saying
7 I'm not 100 percent confident that there was a
8 communication, because that would be an email
9 from our PHA to claims persons at the DOL
10 office. And I don't know that that
11 necessarily gets into the claimant's claim
12 box. It would be if the claimant raised this
13 in -- raised this in interview, just in case
14 you hadn't heard it before.

15 And, you know, in case you didn't
16 -- you know, we have told them that they need
17 to try that. And that was probably the extent
18 of it and we might not hear anything more.

19 MEMBER MUNN: It should be on
20 DOL's records, right?

21 MR. HINNEFELD: I can't vouch, I
22 can't speak for their records. I believe our

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1 records are generally better than their's. So
2 I don't know. I think I'm just saying --

3 CHAIR GRIFFON: Well, it seems
4 like an original important thing.

5 MR. HINNEFELD: I'm saying that
6 that will be a -- well, years after the fact,
7 that's going to be a very difficult thing to
8 verify.

9 CHAIR GRIFFON: Yes.

10 MR. HINNEFELD: And I think if
11 today if you said can I find some examples of
12 us doing that, I think it wouldn't be very
13 long and I would probably be able to get the
14 interviewers to identify some cases that was
15 done. Like even ask the interviewers, if that
16 happens to you today, do you record that in
17 the telephone logs that they raised this
18 during the close-out interview and you told
19 them -- use that to necessarily basically
20 report it in the close-out interview. I don't
21 know if it will be or not.

22 So what I'm -- all I'm telling us

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1 is if this much later trying to document that
2 that communication happened, would be very
3 difficult. I don't know that we can verify
4 that that communication happened.

5 CHAIR GRIFFON: Well, I had
6 originally had no further action on this, but
7 I -- it would be --

8 MR. HINNEFELD: I mean, of course
9 --

10 CHAIR GRIFFON: Let's take it to
11 the Subcommittee.

12 MR. HINNEFELD: I'll find out what
13 I can find out. But I'm just telling you, I
14 don't have a lot of expectations that there is
15 going to be this nice crisp trail --

16 CHAIR GRIFFON: Right, right,
17 right.

18 MR. HINNEFELD: -- of
19 communication.

20 DR. MAURO: If it helps at all,
21 when I review these cases and let's say, in
22 this case, there is the entire DOL file and

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1 the entire DOE file.

2 CHAIR GRIFFON: Yes.

3 DR. MAURO: It is all there.

4 CHAIR GRIFFON: And the
5 correspondence.

6 DR. MAURO: And all the
7 correspondence and medical, all the medical
8 history is there, too.

9 CHAIR GRIFFON: Yes.

10 DR. MAURO: All the diagnoses,
11 when the doctor diagnosed what. It's all
12 there. And now, the fact that the interviewee
13 was apparently, I guess, the survivor, I would
14 have to check, but, said no, there was also a
15 coma. It may turn out that might have been in
16 the past disease.

17 CHAIR GRIFFON: Right.

18 DR. MAURO: And therefore, it was
19 disregarded and not -- because it was a brain
20 cancer he said.

21 CHAIR GRIFFON: But it should --
22 the point is, it should at least be followed-

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1 up on.

2 DR. MAURO: Yes.

3 CHAIR GRIFFON: I mean, I think
4 it's important enough to make sure that that
5 system is working for the claimant's behalf.

6 DR. MAURO: Oh, yes.

7 CHAIR GRIFFON: You know, they are
8 working with a slew of paperwork and may not
9 know that they had to resubmit something to
10 DOL to make sure that -- you know, just get
11 their report being rejected. They won't, you
12 know --

13 DR. MAURO: Yes.

14 CHAIR GRIFFON: That's the worst
15 case, I guess, you know.

16 MR. KATZ: But to interact, so
17 that's a lot, too, so sort of separate from
18 that, there are a lot of cases I have seen
19 over the past two years with our ombudsman,
20 Denise, where she has identified with them
21 perhaps even ones that is in the adjudication
22 phase with DOL, they will come to Denise and

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1 say -- and Denise laughs and questions and
2 finds out that, in fact, there was another
3 cancer that just never got raised and so on.
4 And she will send them back to DOL.

5 CHAIR GRIFFON: I think --

6 MR. KATZ: And she will get the
7 case reopened.

8 CHAIR GRIFFON: And I think they
9 got all the medical records. They've got
10 everything, you know, and they might not have
11 got everything or whatever.

12 MR. KATZ: And DOL doesn't always
13 interpret the medical files correctly as well.
14 I mean, it happens.

15 CHAIR GRIFFON: Yes.

16 MR. KATZ: In many different ways.

17 CHAIR GRIFFON: Right.

18 MR. KATZ: Well, I think it's
19 worth following up on.

20 MR. HINNEFELD: We have -- we
21 actually do have a note in the telephone log
22 for this case.

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1 CHAIR GRIFFON: Okay. The system
2 works.

3 MR. HINNEFELD: But it's not
4 completely definitive. It identifies that the
5 claimant's concern was that her father also
6 had colon cancer and the interviewer advised
7 her that we do not have a pathology report on
8 that and DOL cannot accept it. Because DOL
9 requires medical evidence, they require
10 evidence of the medical condition.

11 And she said that she understands
12 that, but she knows he had it. So it doesn't
13 even say for sure, you know, well, I have
14 that. I submitted it or she may -- it doesn't
15 say for sure that I can't get the medical
16 files, because it was too long ago, which we
17 hear on occasion.

18 CHAIR GRIFFON: Right.

19 MR. HINNEFELD: And so then the
20 interviewer says I advised her that she can
21 call the Cleveland DOL on this. So at least
22 the claimant was advised to go to the

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1 Department of Labor. Now, whether we made a
2 communication to the Department of Labor, that
3 I don't know that I can -- that's what
4 happened. I don't know.

5 CHAIR GRIFFON: Well, then given
6 the response here though, it's kind of
7 interesting, because it says additional cancer
8 was added. So that must have been correct.

9 MR. HINNEFELD: Well, that must be
10 in something that I don't have.

11 CHAIR GRIFFON: Unless it was
12 another type of cancer, it wasn't the colon,
13 but --

14 MR. HINNEFELD: No, it did come
15 back to us.

16 CHAIR GRIFFON: So the colon did--
17 she might have gone back to her physician.

18 MR. HINNEFELD: Well, we will
19 know.

20 CHAIR GRIFFON: Yes.

21 MR. HINNEFELD: If it came back,
22 we will know what it came back for.

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1 MEMBER MUNN: Well, wait. I just
2 -- what you just said doesn't -- perhaps my
3 note is incorrect. You said it says here
4 there was an added cancer and my note says
5 NIOSH did not have the authority to add cancer
6 diagnoses.

7 MR. HINNEFELD: We are working
8 from different matrices.

9 MEMBER MUNN: Okay.

10 MR. HINNEFELD: See you're working
11 from the one that I sent.

12 CHAIR GRIFFON: Yes.

13 MEMBER MUNN: Yes.

14 MR. HINNEFELD: Mark is working
15 from his.

16 CHAIR GRIFFON: No, this -- mine
17 says that what you are saying, Wanda, but in
18 the resolution it says an additional cancer
19 was added. Now, it doesn't say -- maybe I
20 should specify by DOL in March 2000, you know,
21 just to be clear.

22 MR. HINNEFELD: Yes.

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1 MR. HINNEFELD: But again, Scott
2 has got the referral here. They had it no
3 carcinoma of the ilium and large bowel.

4 CHAIR GRIFFON: Okay.

5 MR. HINNEFELD: So DOL did get the
6 evidence, did add it and then so the case came
7 back to us.

8 DR. MAURO: And it has --

9 MR. HINNEFELD: Well, we can tell
10 you. We will tell you. We cannot tell you
11 whether it is finally adjudicated, but we can
12 tell you whether we sent another dose
13 reconstruction by DOL. Sitting here, I don't
14 think we can tell you whether it is finally
15 adjudicated.

16 MEMBER MUNN: It should be the end
17 of this.

18 DR. MAURO: Of this, on this, yes.
19 I agree. Our final with DOL.

20 CHAIR GRIFFON: Right. No further
21 action.

22 MEMBER MUNN: Yes.

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1 DR. MAURO: October of this year.

2 MR. HINNEFELD: Yes. So there was
3 a recommended decision, it may or may not be
4 finally adjudicated.

5 DR. MAURO: That closes this.

6 CHAIR GRIFFON: All right. And on
7 that note, I think it's time for a break.

8 MEMBER MUNN: Absolutely.

9 (Whereupon, the above-entitled
10 matter went off the record at 2:40 p.m. and
11 resumed at 2:50 p.m.)

12 CHAIR GRIFFON: Okay. All right.
13 Let's just start on 123.1. This is a --

14 MR. HINNEFELD: Fission product.

15 CHAIR GRIFFON: Yes, this is a
16 Hanford case, yes.

17 MR. HINNEFELD: Apparently.

18 CHAIR GRIFFON: This was the
19 fission product one. We have -- I have a
20 referral to NIOSH, TIB-54. NIOSH looking at
21 TIB-54 as it applies to whole body counting is
22 my specific comment or resolution.

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1 MR. HINNEFELD: Okay. I think
2 that's true.

3 MR. SIEBERT: Tate and Liz and I
4 have talked about it.

5 CHAIR GRIFFON: So should that be
6 part, should that be referred to the
7 Procedure's Group or not necessarily? Does
8 that stay here? Wanda wants it. She's saying
9 -- for those on the phone and can't see Wanda.
10 She is motioning that yes, bring it on.

11 MEMBER MUNN: I think you have
12 misinterpreted my intent.

13 MR. HINNEFELD: Well, I think that
14 it sounds like we have -- you know, if what we
15 have provided here now, I don't know, we
16 actually provided this before. Yes, we
17 provided it on May 30th. So if that's not
18 sufficiently clear, has there been something
19 else, you know, further elucidated on that, so
20 we know what else to provide?

21 MR. FARVER: This is --

22 CHAIR GRIFFON: I wish I

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1 remembered right now.

2 MR. HINNEFELD: It is. That's my
3 guess. It is. It's all pre TIB-54.

4 CHAIR GRIFFON: Oh, okay.

5 DR. MAURO: That was my guess.

6 CHAIR GRIFFON: Yes.

7 MR. HINNEFELD: Yes.

8 MEMBER MUNN: But nevertheless,
9 pretty comprehensive.

10 MR. FARVER: I believe the
11 question always comes into account where does
12 the radionuclide chooser that is used, you
13 know, that accounts for, in worst case,
14 radionuclide we will say, but it doesn't
15 account for the other nuclides not considered.

16 CHAIR GRIFFON: I see it.

17 DR. MAURO: In other words, you've
18 got gross gamma in the urine. You've got a --

19 MR. FARVER: You've talking in
20 vivo, right?

21 DR. MAURO: The whole body count,
22 okay. They only look at the one radionuclide?

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1 MR. FARVER: They look at the one
2 with the, let's see, the highest MDA.

3 MR. SIEBERT: Take the MDA into
4 account and that determines which would give
5 the largest dose to the organ.

6 DR. MAURO: The organ.

7 MR. SIEBERT: Right. So they
8 assign that one across the board.

9 MR. HINNEFELD: So is this a case
10 where B

11 CHAIR GRIFFON: Okay. So it's all
12 less than detectable, right?

13 MR. SIEBERT: Yes, right.
14 Misdosed.

15 CHAIR GRIFFON: Misdosed, oh,
16 okay.

17 MEMBER MUNN: But again, this goes
18 back to the question which keeps arising in
19 all our fora which is, in this particular case
20 that we are looking at right here, would any
21 other approach be more informative with
22 respect to the dose to the claimant or would

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1 any other dose added from any other known or
2 unknown or imaginary sources significantly
3 affect the outcome for the claimant?

4 That's really the bottom line
5 question. Is this sufficient? Unless there
6 is reason to believe that there were
7 extraordinary exposures to other less active
8 radionuclides, those would be very difficult
9 to take a position that there would be a major
10 impact on dose.

11 CHAIR GRIFFON: I mean, Doug, you
12 should look at the explanation. I mean, I'm
13 sure you did, but I guess this is -- yes, it's
14 kind of your theory is that if you are
15 selecting the one with the highest MDA --

16 MR. FARVER: Oh, okay.

17 CHAIR GRIFFON: If you selected
18 one of the ones -- if you did it equally in
19 other parts, you know, you would have seen one
20 of those at a lower level, so your Ce-144 goes
21 down as well. And the MDs are so far apart
22 that you got it. You bounded it, right?

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1 MR. SIEBERT: That's what -- if I
2 remember correctly, we looked at this.

3 CHAIR GRIFFON: Yes.

4 MR. SIEBERT: And said yes, if we
5 projected out other radionuclides from that
6 Ce-144 --

7 CHAIR GRIFFON: Right.

8 MR. SIEBERT: -- it would have
9 been shining out and you would have seen it.

10 CHAIR GRIFFON: Right.

11 MR. SIEBERT: Anything that we did
12 other than that, would have reduced the dose.

13 CHAIR GRIFFON: Right.

14 MR. SIEBERT: And took those into
15 account.

16 MEMBER MUNN: I think Tammy has
17 something that counts.

18 MR. FARVER: Does OTIB-54 support
19 this?

20 MR. SIEBERT: I believe that's
21 where we -- I don't know off the top of my
22 head.

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1 CHAIR GRIFFON: That's the
2 question.

3 MR. SIEBERT: I think yes.

4 CHAIR GRIFFON: That's where we
5 ended up the last time, I think, right?

6 MR. SIEBERT: Right, yes. And
7 that's -- I think that's something we are
8 looking at with the support.

9 CHAIR GRIFFON: Like we wanted to
10 see the background to this and we said yes,
11 it's probably going to be in the TIB-54
12 discussion.

13 MR. FARVER: Because it's going to
14 come up in -- on TIB-58 again.

15 MEMBER MUNN: Yes, and again.

16 MR. SIEBERT: I keep putting
17 question marks, that's why I want to read it.

18 CHAIR GRIFFON: Well, I'm going to
19 leave that resolution the same. And if it's
20 not covered in TIB-54, we will have to make
21 sure we bring it back here independently. But
22 I'm assuming it will come up in that dialogue,

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1 right? So NIOSH looking at TIB-54 as opposed
2 to whole body counting.

3 MEMBER MUNN: For reasonableness.

4 CHAIR GRIFFON: Does that mean
5 transfer to the Procedure's Work Group then?

6 MEMBER MUNN: No.

7 CHAIR GRIFFON: Wanda, does it?

8 MR. SIEBERT: Yes, it does.

9 CHAIR GRIFFON: Transfer to
10 Procedure's Work Group. 124.1, wow, only one
11 finding on that one. That's good.

12 MR. SIEBERT: We just pick one,
13 the worst case.

14 CHAIR GRIFFON: This is another.

15 DR. MAURO: Well, before we -- I'm
16 sorry.

17 CHAIR GRIFFON: Go ahead, go
18 ahead. Yes.

19 DR. MAURO: I just want to get it
20 clear in my head. You take a whole body count
21 and chest count --

22 CHAIR GRIFFON: Yes.

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1 DR. MAURO: -- spectrum. One of
2 the spikes in there maybe won't --

3 CHAIR GRIFFON: You don't get a
4 spectrum.

5 DR. MAURO: You get it a less
6 than, there we go.

7 (Simultaneous speaking)

8 CHAIR GRIFFON: That's the point.

9 DR. MAURO: Okay. So therefore,
10 you are given the less than and let's say it
11 turns out that there is a whole bunch of
12 radionuclides there, but they are all less
13 than. Okay. All right. Okay. So therefore,
14 it's -- you know, you get your background
15 spike with this Cerium-144, but you really
16 can't pick out any spike for any one
17 particular fission product. And there may be
18 a lot of fission products, such as --

19 CHAIR GRIFFON: Yes, right.

20 DR. MAURO: -- OTIB-54. Now, what
21 I'm understanding here is that, okay, what we
22 are going to do is assume that there is some

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1 radionuclides there and that they are with any
2 106 and Cerium-134. Was that what they are
3 assuming?

4 MR. HINNEFELD: Cerium-144.

5 DR. MAURO: Cerium-144 dose. And
6 so you say, okay, let's assume that yes, he
7 does have some body burden.

8 CHAIR GRIFFON: At the MD.

9 DR. MAURO: At the MD and for
10 those two radionuclides. So therefore, you
11 are assigning the highest possible dose this
12 guy possibly could have based on the whole
13 body count for those two radionuclides for one
14 reason.

15 But now, is it possible that there
16 may be a number of other radionuclides that
17 are there that are also below the limits of
18 protection? I think this is the issue here.

19 MR. HINNEFELD: I believe our
20 response --

21 DR. MAURO: And that would --

22 MR. HINNEFELD: -- is based on

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1 some understanding of the relative portion of
2 the radionuclides process.

3 DR. MAURO: Okay. So --

4 MR. HINNEFELD: So if, in fact,
5 the one we chose was just at the MDA and the
6 others were there in their proportion --

7 DR. MAURO: You can't --

8 MR. HINNEFELD: -- they would be
9 easily detectable on the in vivo.

10 DR. MAURO: Oh, you would see
11 them. There would be all --

12 MR. HINNEFELD: They have lower --
13 the lower, the more sensitive. I believe
14 that's the basis here.

15 MR. SIEBERT: It ties a lot of
16 things together. It's the MDAs, it's the
17 abundances in the area.

18 DR. MAURO: Right.

19 MR. HINNEFELD: And it's the dose
20 delivered.

21 CHAIR GRIFFON: Several factors
22 going on all at once.

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1 DR. MAURO: And that's why I get
2 confused.

3 MR. SIEBERT: Yes, okay. I got
4 it.

5 MR. FARVER: Which is okay. And
6 should that be documented somewhere?

7 (Simultaneous speaking)

8 MR. HINNEFELD: The research from
9 TIB-54, we hope will define that.

10 DR. MAURO: Oh, 54 should show up,
11 because you have a spectrum.

12 MR. HINNEFELD: We'll see.

13 CHAIR GRIFFON: 124.1, this is
14 also a Hanford Case. I have SC&A will review
15 the new DR tool, was my last. Now, you don't
16 -- you guys don't have this in the matrix, but
17 this is in -- from the August 20th is what I
18 had.

19 MR. FARVER: Yes, I have that.

20 CHAIR GRIFFON: Yes, and that's in
21 -- yes. And then on your separate sheet, I
22 see finding response action closed you say.

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1 So you must have reviewed the tool.

2 MR. FARVER: Yes.

3 CHAIR GRIFFON: And that one page
4 that you were --

5 MR. FARVER: Now, I can look for
6 the email for that.

7 CHAIR GRIFFON: Yes, here is
8 Doug's response while he is looking for it
9 says "Reviewed the Hanford Workbook 2.31 and
10 verified the tool. Appropriate count as zeros
11 for misdose determination." I've got one page
12 here.

13 MR. FARVER: Yes, I did do that.

14 CHAIR GRIFFON: Dated June 18,
15 2008. I think the file said June 10th, but
16 all right.

17 MR. FARVER: Okay.

18 CHAIR GRIFFON: Do you have that?
19 I don't want to put words in your mouth. I
20 think this is your document.

21 MR. FARVER: I'm sure it is.

22 MS. BEHLING: Yes, that's correct.

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1 CHAIR GRIFFON: Everybody has got
2 Doug's document, but Doug.

3 MS. BEHLING: Yes.

4 CHAIR GRIFFON: I know how you
5 feel.

6 MEMBER MUNN: As long as it says
7 closed.

8 MR. FARVER: Well, maybe we should
9 reopen it. I know I looked at it. And if I
10 sent an email, someone has that email, then
11 I'm sure I --

12 CHAIR GRIFFON: Well, you had the
13 document before open, so --

14 MR. FARVER: I had the actions.

15 CHAIR GRIFFON: Yes, the actions,
16 that's what they are the actions.

17 MR. FARVER: Yes.

18 CHAIR GRIFFON: The top action
19 124.1.

20 MR. FARVER: Oh, reviewed the
21 workbook.

22 CHAIR GRIFFON: Yes.

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1 MR. FARVER: Verified the tool.

2 Oh, I did do that.

3 CHAIR GRIFFON: Yes.

4 MR. FARVER: Closed.

5 CHAIR GRIFFON: Yes, closed. All
6 right. That's the one, yes. So I'm going to
7 put SC&A reviewed and agrees. Okay. 124.2, I
8 also have it's the same thing, that you
9 reviewed the tool.

10 MR. FARVER: Yes.

11 CHAIR GRIFFON: And for .3, the
12 same thing.

13 MR. FARVER: Correct.

14 CHAIR GRIFFON: So these all carry
15 through.

16 MR. SIEBERT: Actually, .3 is the
17 fission product.

18 CHAIR GRIFFON: Oh, is it? Maybe
19 I got carried -- all fission products. Oh,
20 yes, I was getting carried away with the
21 committee. Okay. So yes, 124.3 is the
22 fission product question back to 124.1.

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1 MR. FARVER: 123.1.

2 CHAIR GRIFFON: I'm sorry, 123.1.

3 Is that fission products, is it a whole body
4 counting issue though or is it --

5 MR. SIEBERT: Yes.

6 CHAIR GRIFFON: -- different?
7 It's still whole body counting?

8 MR. SIEBERT: Right. If the whole
9 use of the sheets are methodology.

10 CHAIR GRIFFON: Okay. All right.
11 Let me just catch up, so I have this.

12 MR. SIEBERT: Using the single
13 most common tables.

14 CHAIR GRIFFON: So that's being
15 sent to your group, Wanda. All right. 124.4,
16 NIOSH & SC&A agrees no further action is what
17 I have.

18 MR. FARVER: Correct.

19 MEMBER MUNN: 123.1, yes, the
20 OTIB-54.

21 CHAIR GRIFFON: Yes, OTIB-54.

22 MEMBER MUNN: Right. That's

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1 Procedure's.

2 CHAIR GRIFFON: Right.

3 MEMBER MUNN: Thank you so much.

4 CHAIR GRIFFON: 125.1, we're
5 rolling right along here. We're on a roll.

6 CHAIR GRIFFON: Now, I have SC&A
7 cannot find the 1984 dose. NIOSH will follow-
8 up on this in the summation doses.

9 MEMBER MUNN: Okay.

10 CHAIR GRIFFON: Again, I didn't
11 forward this matrix around.

12 MR. HINNEFELD: I am having to
13 reopen mine.

14 CHAIR GRIFFON: Nothing after
15 that?

16 MR. HINNEFELD: Nothing after the
17 matrix.

18 MEMBER MUNN: Well, that's not a
19 response.

20 MR. FARVER: It is acceptable. Do
21 you want to look up to 1984 dose in the IREP
22 file? There is none for 1984.

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1 CHAIR GRIFFON: Right. That's --

2 MR. FARVER: In fact, that was
3 what it came down to.

4 MEMBER MUNN: So that's the real
5 point.

6 CHAIR GRIFFON: And then I have
7 that NIOSH will follow-up on this and the
8 summation of the doses.

9 MR. HINNEFELD: Well, right now,
10 I'm having trouble finding that one.

11 CHAIR GRIFFON: So that's okay.

12 MEMBER MUNN: This again is the
13 summation. Was it an 84 event? I mean, I
14 guess, my question is the event is the same
15 year that you are missing the report? Is that
16 the point of this?

17 MR. FARVER: I'm not sure which
18 one you are looking at, Wanda.

19 MEMBER MUNN: 124.4.

20 CHAIR GRIFFON: No, we're on
21 125.1.

22 MR. FARVER: 125.

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1 MEMBER MUNN: Thank you.

2 CHAIR GRIFFON: There is no
3 instrument, no, okay. I was going to say --
4 sorry.

5 MEMBER MUNN: Thank you.

6 CHAIR GRIFFON: But 124.4 was
7 closed. We're on 125.1. And I have NIOSH to
8 follow-up and, you know, we can just carry it
9 forward.

10 MR. HINNEFELD: The number we're
11 on again is?

12 CHAIR GRIFFON: 125.1.

13 MR. HINNEFELD: 125.1.

14 MR. FARVER: If there is an IREP
15 file, it starts off with like SE something
16 something and then the Social Security Number?

17 CHAIR GRIFFON: Yes, yes.

18 MR. FARVER: And in that file,
19 there did not appear to be a 1984 dose.

20 CHAIR GRIFFON: Okay. I don't
21 know if we have to get an answer real-time
22 either, you know.

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1 MR. HINNEFELD: Okay. We -- what
2 was the number of this finding?

3 CHAIR GRIFFON: 125.1. It sounds
4 like a pretty simply one to follow-up on, so,
5 you know.

6 MR. FARVER: I know sometimes they
7 will cut and paste the IREP files together.

8 CHAIR GRIFFON: Yes, it could have
9 been.

10 MR. FARVER: And sometimes --

11 CHAIR GRIFFON: Yes.

12 MR. FARVER: Entries and sometimes
13 there is omissions.

14 MR. SIEBERT: Well, it is
15 referring to the 121 in there, which is
16 actually listed. In the RFP it's 1948 instead
17 of 1984.

18 MR. FARVER: Oh.

19 MR. SIEBERT: And I think the dose
20 reconstruction was seeing that as being the
21 1984, but I'll check on that.

22 MR. FARVER: Okay.

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1 CHAIR GRIFFON: Okay. 125.2 I
2 have NIOSH and SC&A agree.

3 MR. FARVER: Yes, we do that
4 occasionally.

5 CHAIR GRIFFON: So the NIOSH
6 response is fine on that. Okay. 125.3, SC&A
7 to provide IMBA runs for the clarification of
8 concern

9 MR. SIEBERT: That's on the
10 seventh set action sheet as well.

11 CHAIR GRIFFON: Yes, and SC&A
12 concurs with NIOSH response is what I see.

13 MR. FARVER: Yes.

14 CHAIR GRIFFON: Okay.

15 MR. FARVER: Original start IMBA
16 file was corrupt. The SC&A IMBA file, the
17 support finding was created to agree with and
18 verify method use in the error report crank
19 intake using half of the MDA.

20 CHAIR GRIFFON: Okay. So you
21 relooked at that on the -- well, anyway.

22 MR. FARVER: We basically --

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1 CHAIR GRIFFON: You looked at
2 those and you --

3 MR. FARVER: We can't agree with
4 them without really saying to agree.

5 CHAIR GRIFFON: Yes. Okay. I'm
6 trying to figure out why we didn't agree the
7 last time. Well, that's all right. I'll just
8 take it. The finding is closed. All right.
9 125.4, NIOSH will provide follow-up
10 information on why this dose is not included,
11 even though small -- even though it was a
12 small dose. Yes, so these are pretty small
13 doses we are talking about, but the question
14 is they were probably above the threshold that
15 should have been included, I guess, is what
16 SC&A is contending.

17 MR. FARVER: Yes.

18 CHAIR GRIFFON: Yes.

19 MR. HINNEFELD: About a millirem.

20 CHAIR GRIFFON: Yes. Again, I
21 think I'm getting -- I'm capturing a good
22 update on this matrix, so I'll make sure I

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1 forward the whole updated matrix out to you
2 soon, that way, Stu, if you can add this to
3 your notes, that's probably one to follow-up
4 on.

5 MR. HINNEFELD: Which one?

6 CHAIR GRIFFON: 125.4. And the
7 very small doses were not included. 125.5,
8 NIOSH has developed TIB-54, sounds familiar.

9 MR. FARVER: Yes, but this was
10 also a second issue where the DR states it is
11 Type S, when it is actually an intake of Type
12 F.

13 CHAIR GRIFFON: Yes.

14 MEMBER MUNN: F or S?

15 CHAIR GRIFFON: Yes.

16 MR. FARVER: The DR states that
17 it's an S, but it's -- the actual calculations
18 are F.

19 CHAIR GRIFFON: Right.

20 MEMBER MUNN: Oh.

21 MR. SIEBERT: It states in the
22 dose reconstruction report.

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1 MR. FARVER: It's an S.

2 MR. SIEBERT: Okay. So it just
3 may be a typo.

4 MR. FARVER: It may be a typo.

5 CHAIR GRIFFON: Right. Okay.
6 Well, I think I have down here, maybe we might
7 want to double check this, but I have down
8 here that SC&A and NIOSH agree that there was
9 a quality control problem that should have
10 probably been captured in the peer review
11 process. I think that's what you are talking
12 about. The S versus F, but I don't see any --
13 I think we should clarify that. I think it
14 was -- it might have been a typo, not --

15 MR. FARVER: Oh, not a
16 calculation.

17 CHAIR GRIFFON: -- a calculation.

18 MR. FARVER: No, no, no, it's not
19 that it's a calculation.

20 CHAIR GRIFFON: Okay. Right,
21 right.

22 MR. FARVER: It was different.

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1 CHAIR GRIFFON: Right.

2 MR. FARVER: Pointed out as being
3 different.

4 CHAIR GRIFFON: I think we have
5 got that.

6 MR. FARVER: Right.

7 CHAIR GRIFFON: And NIOSH agreed
8 with that.

9 MR. FARVER: Okay.

10 CHAIR GRIFFON: And there is no
11 further action on it. It's just a typo, yes.

12 MR. FARVER: Right. Because I
13 also have after it, you know, key weight
14 concern and that's one you have discussed.

15 CHAIR GRIFFON: Okay. So I'm just
16 trying to keep current. 125.6, this case will
17 require rework under PER review and NIOSH will
18 reexamine the fission product during the
19 rework. So that's -- this is one of those
20 again that it is the whole 125 case.

21 MR. FARVER: Yes, there is some
22 other fission --

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1 CHAIR GRIFFON: We might have to
2 deal with how to -- yes. There's other things
3 in here?

4 MR. FARVER: Yes, it has to do
5 with his work location and certain areas.

6 CHAIR GRIFFON: Okay. Okay. So
7 it's beyond just the fission product stuff or
8 it is --

9 MR. FARVER: The fission products.

10 CHAIR GRIFFON: Oh.

11 MR. FARVER: It also has to do
12 with where he worked.

13 CHAIR GRIFFON: Okay. But it
14 might be beyond the --

15 MR. FARVER: Some are monitored
16 dose involved.

17 CHAIR GRIFFON: I mean, if it's a
18 where he worked question and things like that,
19 you are also talking not TBD, right, in that
20 case? Because I'm assuming you might have to
21 use different proportions of --

22 MR. FARVER: Yes.

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1 CHAIR GRIFFON: -- radionuclides
2 depending on locations.

3 MR. FARVER: On the 54?

4 CHAIR GRIFFON: 54 is -- erase all
5 mistakes potentially.

6 DR. MAURO: I think it's based on
7 the kind of reactor.

8 CHAIR GRIFFON: Yes.

9 DR. MAURO: But it doesn't change
10 where you are in the building.

11 MR. SIEBERT: No, I think --

12 CHAIR GRIFFON: No, right.

13 MR. SIEBERT: -- when you are
14 close to the material after removal from the
15 reactor.

16 DR. MAURO: Okay.

17 CHAIR GRIFFON: Right, right,
18 right.

19 DR. MAURO: Okay. Got it.

20 MR. SIEBERT: But there were
21 situations in 54.

22 DR. MAURO: Okay.

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1 MR. SIEBERT: And there were also
2 different kinds of reactors, too, if I
3 remember.

4 DR. MAURO: Yes, but they all --

5 MR. SIEBERT: A couple dimensions
6 it was.

7 DR. MAURO: Different types of
8 facilities.

9 MR. SIEBERT: Facilities and also
10 where in the fuel cycle you are.

11 DR. MAURO: Right..

12 MR. SIEBERT: Okay.

13 MEMBER MUNN: 125.6 we're doing,
14 right?

15 CHAIR GRIFFON: Yes.

16 MEMBER MUNN: Correct?

17 MR. SIEBERT: Yes.

18 DR. MAURO: Yes.

19 MEMBER MUNN: The issue was
20 unmonitored internal dose.

21 CHAIR GRIFFON: Yes, including
22 fission product dose, I guess. I guess my

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1 question was, was it a TIB-54 question or is
2 it a --

3 MR. FARVER: No, this is not.

4 MEMBER MUNN: No.

5 CHAIR GRIFFON: Right.

6 MEMBER MUNN: No.

7 CHAIR GRIFFON: I didn't think so,
8 that's why I was -- but it says this case will
9 require rework under the PER review. NIOSH
10 will reexamine the fission product dose during
11 the rework. Oh, it's requiring rework
12 probably for Super S, right?

13 MR. FARVER: Right, yes.

14 MR. SIEBERT: And there was a
15 change in the TBD B

16 CHAIR GRIFFON: Yes, okay.

17 MR. SIEBERT: -- when this was
18 done.

19 CHAIR GRIFFON: Right.

20 MR. SIEBERT: So now, if we would
21 apply it, it would probably go way up.

22 CHAIR GRIFFON: So that's what

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1 that -- that's what my --

2 MR. SIEBERT: That's just saying
3 that we are --

4 CHAIR GRIFFON: -- notation means,
5 yes.

6 MR. SIEBERT: Yes.

7 MR. FARVER: I mean, our concern
8 was there was no unmonitored fission product
9 dose for 47 to 48 or any unmonitored dose from
10 64 to 84.

11 CHAIR GRIFFON: Yes. And my --
12 and this response is saying they are going to
13 pick that up when they do the PER review.

14 MR. FARVER: Okay.

15 CHAIR GRIFFON: Yes.

16 MR. FARVER: The high fired.

17 CHAIR GRIFFON: I guess the
18 question would be, you know, the age old
19 question here is, is it likely to affect the
20 case or can we close the finding out or, you
21 know? And I don't know if we can change this
22 one.

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1 MR. HINNEFELD: Well, based on
2 what I thought beforehand, you could close the
3 finding, but you would still want to track
4 this case.

5 CHAIR GRIFFON: Right.

6 MR. HINNEFELD: Just in case it's
7 going to be in the report. Because the issue
8 here, I believe, was corrected by the change
9 in the site profile. The dose and the
10 guidance, isn't that what this says, that it
11 was done in accordance to the guidance at the
12 time? The guidance is now different.

13 CHAIR GRIFFON: Right. I think
14 so, yes.

15 MR. HINNEFELD: And so we have
16 corrected the evolution of findings. Now, of
17 course, on the other hand --

18 CHAIR GRIFFON: Although I'm not
19 sure --

20 MR. HINNEFELD: -- whether or not
21 the correction we -- what we changed really,
22 you know, settles your uneasiness about what

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1 is done in this case is the issue.

2 CHAIR GRIFFON: Yes.

3 DR. MAURO: A couple of -- I mean,
4 from what I read here, there are a couple of
5 aspects where it's misdosed, I guess, where it
6 should have been zeros.

7 MR. FARVER: There was a little
8 confusion about what the basis was for the
9 assumptions used in the DR. Were they working
10 in a reactor area, a separations area.

11 CHAIR GRIFFON: Yes. Just the
12 tool.

13 MR. FARVER: It wasn't very clear.

14 CHAIR GRIFFON: And the overlap of
15 that, yes.

16 MR. FARVER: So that was part of
17 it.

18 CHAIR GRIFFON: Okay.

19 MEMBER MUNN: Well, is it the fact
20 that the assumption made was that he was in
21 the 100 area all the time? Isn't that pretty
22 much -- well, why?

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1 MR. FARVER: It must be.

2 MEMBER MUNN: I'm conflicted on
3 that.

4 MR. HINNEFELD: I think what the
5 issue here is -- I think the issue is going to
6 be whatever change was made to the site
7 profile, does that resolve this issue?

8 CHAIR GRIFFON: Right, yes.

9 MR. HINNEFELD: It sounds like
10 maybe not.

11 CHAIR GRIFFON: Right.

12 MR. HINNEFELD: I don't know where
13 we go from here.

14 CHAIR GRIFFON: I know. I'm not
15 sure we -- I think it's going to be one of
16 those that is flagged once we --

17 MR. HINNEFELD: Do you want me to
18 look at this again?

19 CHAIR GRIFFON: It sounds like a
20 winner.

21 MR. FARVER: Yes, you might want
22 to sharpen the pencil.

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1 MR. HINNEFELD: When you are doing
2 that, Doug, maybe look at since our response
3 talked about well, it was done in accordance
4 with the guidance and this time it's now
5 different, you might check and see whether the
6 current change in the guidance, like I said,
7 settles your uneasiness about how this was
8 done or it still remains.

9 You know, I mean, something is now
10 done differently, but that's not really fully
11 explained on why the way we do it now is the
12 right way to do it.

13 MR. FARVER: Yes, because the
14 first line of our review says, "We are unable
15 to determine the exact basis for the intakes
16 that were assigned."

17 MR. HINNEFELD: Yes. And there is
18 a bit on our response.

19 MR. FARVER: Right.

20 CHAIR GRIFFON: So I've got SC&A
21 will review their finding compared to the
22 currently available TBD. Is that --

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1 MR. FARVER: Yes, and I will
2 relook at their response and all that. I'll
3 just review the whole finding.

4 CHAIR GRIFFON: Okay.

5 MR. FARVER: It's been so long
6 ago, I don't actually remember it all.

7 CHAIR GRIFFON: 125.7, NIOSH and
8 SC&A agree.

9 MR. FARVER: We agreed.

10 CHAIR GRIFFON: 125.8, NIOSH
11 agrees, case is being reworked under the PER
12 review. So this is another one that they
13 agree on the finding and somehow we'll work it
14 out, so the case gets tracked, every finding.

15 I have more on this, but it says "Records
16 will be obtained and considered prior to this
17 evaluation."

18 DOL did apparently research to
19 determine employment at NTS, so there must be
20 some NTS records now available or something.

21 MR. HINNEFELD: It sounds like it,
22 yes.

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1 CHAIR GRIFFON: Yes.

2 MR. HINNEFELD: In fact, our
3 response even says that.

4 CHAIR GRIFFON: Yes, yes, I see
5 that.

6 MR. HINNEFELD: We have that NTS
7 report.

8 CHAIR GRIFFON: It was not
9 included.

10 MR. HINNEFELD: It didn't verify
11 the employment record.

12 CHAIR GRIFFON: Yes, yes.

13 MR. HINNEFELD: So it may be what
14 we have was the report from Hanford from MPR,
15 that Hanford sent over was the Hanford case.

16 CHAIR GRIFFON: Yes.

17 MR. HINNEFELD: Yes. So I mean,
18 on occasion that's what will happen. There's
19 always the exposure record, you know, includes
20 their record. So they may have it. You know,
21 they may, in fact, provide us with an NTS
22 report. But once we have dose reconstruction

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1 where NTS is part of verifying the -- we would
2 request NTS for exposure. That sounds like
3 what happened. I don't know. I can't figure
4 out why else we would have had that, I mean,
5 that we didn't include.

6 CHAIR GRIFFON: Then 125.9, I
7 think we can move on to that, at this point.

8 MR. HINNEFELD: Yes.

9 CHAIR GRIFFON: On this one, I
10 also have NIOSH to address was all the data
11 obtained? Why wasn't this notice in peer
12 review? Is chronic bounding? That's what I
13 have from the last meeting.

14 MR. FARVER: Correct.

15 MR. HINNEFELD: I have that here.
16 I guess I need to check and see.

17 MR. FARVER: Yes, yes, yes, I
18 think that's --

19 CHAIR GRIFFON: Yes. I don't want
20 to guess at that one.

21 MEMBER MUNN: 125.9?

22 CHAIR GRIFFON: It's a remaining

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1 action.

2 MR. HINNEFELD: We're going to go
3 back and -- you know, where we are.

4 CHAIR GRIFFON: Yes.

5 MR. FARVER: Right. And another
6 part of that was that about incidents. Family
7 of the employee was involved in maybe four
8 incidents. It looks like some airborne,
9 elevated airborne, positive nasal smears and
10 then a high dose rate and all these bioassay
11 says bioassay requested.

12 CHAIR GRIFFON: All right. And
13 the last, yes, thing NIOSH's response says
14 therefore, any plutonium intakes resulting, in
15 other words, from any of the four incidents
16 would have been less than those assigned,
17 based on the bioassay results. And I think
18 that was a question is the chronic assumption
19 bounding? I guess, okay. It's one of those
20 ones that we commonly do, right?

21 MR. HINNEFELD: Right.

22 CHAIR GRIFFON: You want to test

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1 whether the incidents are bounded by that.

2 MR. FARVER: And the other
3 question is three of those incidents were in
4 1957 and each of those says that bioassay was
5 requested.

6 CHAIR GRIFFON: Yes, yes.

7 MR. FARVER: There's only one
8 sample listed in the results for 1957.

9 CHAIR GRIFFON: Right, right. And
10 that's why we have that question, do you have
11 all the results.

12 MR. FARVER: Correct.

13 CHAIR GRIFFON: Yes. Okay.
14 126.1, a Hanford and INEL case. SC&A agrees
15 with NIOSH response, no further action.

16 MR. FARVER: Correct.

17 CHAIR GRIFFON: 126.2, no further
18 action for this case, further discussion
19 needed on -- well, I said no further action.
20 Then I say further discussion is needed on
21 TIB-2. And its appropriateness and certainly
22 that it is bounding. I'm not sure why that is

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1 in there. Maybe it was no further action for
2 this case, but that's the general. Did we
3 review TIB-2?

4 DR. MAURO: Yes, the only problem
5 we have with TIB-2 is that -- that's just the
6 fall upper end intake.

7 CHAIR GRIFFON: Right, right,
8 right.

9 DR. MAURO: It would have a
10 certain set.

11 CHAIR GRIFFON: Oh, yes, where the
12 TIB-2 is bounding of this certain set.

13 DR. MAURO: Now, the only time you
14 found that there might be a problem with TIB-2
15 being bounding had to do with when we were
16 dealing with raffinates, like raffinates at
17 Fernald. And I have to say that in my
18 conversations with Hans and Kathy, well, Kathy
19 is still on-line, and RJ, we found TIB-2 to be
20 extremely bounding for the purpose of denial
21 when you don't have internal use.

22 Except when you are dealing with

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1 thorium raffinates that, we found that it is
2 very possible that you could actually have
3 exposures greater than those associated with
4 the default TIB-2. That's my recollection of
5 TIB-2.

6 CHAIR GRIFFON: Yes.

7 DR. MAURO: In this case, we are
8 applying it to worker at Hanford.

9 CHAIR GRIFFON: At INEL.

10 DR. MAURO: At INEL. I have to
11 say I don't have any recollection of
12 circumstance at INEL that we -- that would
13 somehow defeat the use of TIB-2. INEL I think
14 is mainly reactor problems, same kind of
15 problems you would have in some unusual
16 circumstance.

17 CHAIR GRIFFON: I think I asked
18 this question of whether this individual was
19 at CPP.

20 DR. MAURO: Oh, yes, you did.

21 CHAIR GRIFFON: That would be my
22 only concern.

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1 DR. MAURO: That's your question.

2 CHAIR GRIFFON: Yes.

3 DR. MAURO: And CPP --

4 CHAIR GRIFFON: That would be the
5 only place where it was possible even, you
6 know.

7 DR. MAURO: Had the --

8 CHAIR GRIFFON: And NIOSH does
9 note that they were never even sampled for
10 uranium and if they were in that area, you
11 know. It seems unlikely that they wouldn't
12 have cut sample for uranium, you know, if they
13 were in the CPP area.

14 MEMBER MUNN: That was the work
15 records of the current --

16 CHAIR GRIFFON: Yes, and I thought
17 we looked at that. I thought we did see that.
18 It did say that --

19 DR. MAURO: CPP was a problem,
20 mainly if you had, I think, iodine. I mean, I
21 remember the processing spectrum and the big
22 releases that were the iodine releases.

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1 MEMBER MUNN: Yes.

2 DR. MAURO: I mean, that was when
3 you say is there some aberrant situation where
4 even TDB, even TIB-2 would not do the trick.

5 MEMBER MUNN: Yes.

6 DR. MAURO: See the reason we came
7 up with this critique of TIB-2 was the unique
8 situations associated with raffinates.

9 MEMBER MUNN: Yes, yes.

10 DR. MAURO: Whether or not it
11 would extend to the chem plant, I would say
12 even -- I would say unlikely, except for the
13 iodine problem. That occurs when you have the
14 raw elements.

15 CHAIR GRIFFON: Right.

16 MEMBER MUNN: Which would -- in
17 any case, this was the badge worker.

18 DR. MAURO: Yes.

19 MEMBER MUNN: This was the badge
20 worker, right?

21 CHAIR GRIFFON: Yes, I think
22 that's where I got raised.

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1 DR. MAURO: Yes.

2 CHAIR GRIFFON: You know, just to
3 make sure. It's likely that it was bounding,
4 but a unique work history, I think, is why we
5 put that comment in there, you know.

6 DR. MAURO: In the '50s and the
7 chem plant sure was a unique work history.

8 CHAIR GRIFFON: Yes.

9 MEMBER MUNN: Yes, but they
10 certainly would have been badged, too.

11 DR. MAURO: Oh, yes, but I guess
12 we're talking internal.

13 MEMBER MUNN: Well, yes.

14 CHAIR GRIFFON: NIOSH is another
15 story.

16 MR. FARVER: The original finding
17 had to do with the selection of non-uranium
18 sites/reactor sites.

19 CHAIR GRIFFON: Right.

20 MR. FARVER: We thought that it
21 should have been a uranium site/reactor site.

22 You know, this is the OTIB-2 deal. And

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1 that's why NIOSH explains why it --

2 CHAIR GRIFFON: Oh, okay.

3 MR. FARVER: -- why they chose
4 what they chose.

5 CHAIR GRIFFON: Right. Okay.

6 MR. FARVER: Which is okay.

7 DR. MAURO: Which is different
8 than what we are talking.

9 MR. FARVER: Yes.

10 DR. MAURO: We're just saying it's
11 not so much a matter of whether OTIB-2
12 applies. What I suspect --

13 MR. HINNEFELD: The TIB source.

14 MR. FARVER: Which button you
15 click.

16 MEMBER MUNN: But we still agree.

17 CHAIR GRIFFON: But then beyond
18 that, we have went in -- we did add that is it
19 bounding for certain? You know, that was the
20 question of the work history.

21 MR. HINNEFELD: Well, you may have
22 also asked, because there is apparently a

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1 sampling record on this person, because he was
2 never sampled for uranium, so --

3 CHAIR GRIFFON: Right.

4 MR. HINNEFELD: -- in the sampling
5 record, why did you use TIB-2?

6 CHAIR GRIFFON: Right, right,
7 right.

8 MR. HINNEFELD: I mean, that may
9 have been what they were talking about.

10 CHAIR GRIFFON: It could have
11 been, yes, I know. We have to look back at
12 the transcript.

13 DR. MAURO: Sure. Well, it was
14 denied. In TIB-2 we probably -- you know, if
15 there was a sampling record, we could probably
16 quickly determine whether or not it could
17 still be off the charts bounding to the guy.

18 CHAIR GRIFFON: Yes.

19 DR. MAURO: And if it was, end of
20 story.

21 CHAIR GRIFFON: Right, right.

22 MEMBER MUNN: So this is not

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1 closed then?

2 CHAIR GRIFFON: I guess --

3 MEMBER MUNN: We still have an
4 outstanding question which is being kicked
5 around the table here.

6 CHAIR GRIFFON: Yes, I guess we
7 have an outstanding question. I mean, I did
8 have no further action on this case, but then
9 I have contradictory statements in here
10 really. I thought we still had an outstanding
11 question about it. I think we should at least
12 look into that question. Is the TIB-2
13 bounding for the circumstances or the likely
14 circumstances?

15 DR. MAURO: And you have a lot of
16 information. Apparently, there was --

17 CHAIR GRIFFON: Does anybody have
18 the work history of this guy? You're looking
19 ahead or something? 126, right. What he did
20 at INEL.

21 MEMBER MUNN: 126.

22 MR. SIEBERT: The employment

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1 history says the INEL has kept radiation
2 records.

3 CHAIR GRIFFON: Maybe the CATI
4 says that. I forget where -- I thought I saw
5 something. It should say had urine samples
6 from INEL that were analyzed for gross beta
7 and gross gamma. That's per your resolution
8 or your response. But nothing for uranium, is
9 there?

10 MR. SIEBERT: There is no internal
11 information received from INEL.

12 CHAIR GRIFFON: Oh. Yes, while at
13 INEL --

14 MR. SIEBERT: Yes, while at INEL
15 the energy employee received a urine sample
16 and analyzed for gross beta and gross gamma.

17 CHAIR GRIFFON: I think we need to
18 pump in some oxygen into these rooms. Let's
19 wrap this up and then take five.

20 DR. MAURO: We can only go so far.

21 CHAIR GRIFFON: Everybody can take
22 five and then we will try to get as far as we

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1 can get. There was no supplemental. We've
2 got the original Idaho that said no reported
3 external, so we thought there was no
4 monitoring.

5 MR. SIEBERT: Yes, there was no
6 internal dose assigned.

7 CHAIR GRIFFON: Assigned, yes.

8 MR. SIEBERT: It was the original
9 response.

10 CHAIR GRIFFON: Okay.

11 MR. SIEBERT: And yes, the second
12 that we have for the actual data, we have the
13 individual dose has --

14 CHAIR GRIFFON: Gross beta.

15 MR. SIEBERT: -- urinalysis.

16 CHAIR GRIFFON: Yes.

17 MR. SIEBERT: Beta and gamma.

18 CHAIR GRIFFON: Yes. Does it show
19 work locations on those things or anything
20 like that?

21 MR. HINNEFELD: Let's see. CEA or
22 CFA?

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1 MEMBER CLAWSON: CFA, Central
2 Facilities.

3 MR. HINNEFELD: Central
4 Facilities.

5 MR. HINNEFELD: And then the last
6 entry is for 8 -- yes, they are all -- I think
7 they are all CFA, except for the last one
8 there. There are five total. This is from 83
9 through 85.

10 CHAIR GRIFFON: Oh, 83 through to
11 85.

12 MR. HINNEFELD: 53, I'm sorry. 53
13 to 55. The first four in CFA. The last one
14 is 83, which is still in that -- either in the
15 same area of downtown, I guess.

16 DR. MAURO: The Central Facilities
17 Area? What were they doing there?

18 CHAIR GRIFFON: Yes, it looks like
19 it, but they could have been sent out to.

20 MR. HINNEFELD: Yes, they could
21 have been sent out.

22 MEMBER CLAWSON: See that's where

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1 area is based on central leasing. And then
2 went out to all the different sites.

3 CHAIR GRIFFON: Yes, but it
4 doesn't say CPP.

5 MR. HINNEFELD: It doesn't say
6 CPP.

7 DR. MAURO: It could have been.

8 MR. HINNEFELD: CFA.

9 CHAIR GRIFFON: It looks likely, I
10 think, you know.

11 MR. HINNEFELD: And only bioassay
12 for fission products.

13 DR. MAURO: And --

14 MR. HINNEFELD: Beta gamma.

15 DR. MAURO: -- we still don't know
16 whether or not two of -- OTIB-2 would be
17 bounding even for a chem plant. I mean, I
18 only brought that up --

19 MR. HINNEFELD: Yes.

20 CHAIR GRIFFON: Yes.

21 DR. MAURO: It may still be
22 bounding because of the radionuclides.

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1 CHAIR GRIFFON: Well, let's leave
2 that question on the table, I think, for this
3 one, whether that is bounding in this case.

4 DR. MAURO: There is -- well,
5 there is 12 radionuclides all of which are
6 relatively long-lived and it's a big first day
7 of work or something like that.

8 MR. HINNEFELD: There is 28.

9 DR. MAURO: 28. That's a big
10 list, yes.

11 MR. HINNEFELD: There is 28 on
12 fission products.

13 DR. MAURO: Okay. And that was
14 assigned the first day at work.

15 MR. HINNEFELD: Yes. And it is
16 like 110 MPC years.

17 DR. MAURO: Oh, yes.

18 MR. HINNEFELD: You know, all
19 aggregated together. It's like 110 MPC years.

20 MEMBER MUNN: Okay. So what are
21 we going to say about 126.2?

22 MR. HINNEFELD: The note I have is

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1 that there is still a question of NIOSH to
2 demonstrate that OTIB-2 is bounding, based on
3 the employee=s work history.

4 CHAIR GRIFFON: Based on the work
5 history, yes. It seems less likely now. If
6 he was really getting higher exposures, I
7 think he would have been assigned the CPP.
8 Isn't that usually the case or not
9 necessarily?

10 MR. FARVER: No.

11 MR. HINNEFELD: Could be a
12 maintenance guy.

13 MEMBER CLAWSON: And earlier, in
14 the earlier years --

15 MR. HINNEFELD: Earlier days, yes.

16 MEMBER CLAWSON: -- the only
17 people that were in tech are CPP or TRA, but
18 everybody else would be pulled in from the
19 Central Facilities.

20 MR. SIEBERT: Okay. What does our
21 external look like for that area?

22 MEMBER CLAWSON: The external for

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1 chem plant?

2 MR. SIEBERT: Yes. I mean,
3 because the guy has no external.

4 MR. HINNEFELD: No recorded
5 external.

6 MR. SIEBERT: Zero.

7 DR. MAURO: Oh, is that right?

8 CHAIR GRIFFON: Yes, I would think
9 if he was going to be internally, he would
10 have also got --

11 MEMBER CLAWSON: He walked --

12 MR. HINNEFELD: It's very
13 significant.

14 MEMBER CLAWSON: -- through the
15 gate at CPP. He got dose.

16 CHAIR GRIFFON: So it's less
17 likely, but you know.

18 MEMBER CLAWSON: I mean, yes,
19 we're pushing it.

20 CHAIR GRIFFON: But I know
21 something triggered this. Maybe check the
22 CATI, too, to see what they -- where they said

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1 they were.

2 MR. HINNEFELD: Okay. I'll check
3 the case.

4 CHAIR GRIFFON: Yes.

5 MR. HINNEFELD: It doesn't have a
6 job description or anything.

7 CHAIR GRIFFON: All right. I'm
8 going to --

9 MR. HINNEFELD: We have not pulled
10 it up yet.

11 CHAIR GRIFFON: Can we take a very
12 short break just to stretch our legs? Yes, a
13 five minute break. And then we will try to --
14 we will go until basically 5:00 or a little
15 before 5:00, if that's okay with everybody.

16 (Whereupon, the above-entitled
17 matter went off the record at 3:38 p.m. and
18 resumed at 3:46 p.m.)

19 CHAIR GRIFFON: We are back on.
20 127.1, and this is another Hanford case. And
21 I don't have a NIOSH response on this one,
22 unless it was added in.

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1 MEMBER MUNN: Not even the May
2 30th?

3 CHAIR GRIFFON: No. There is no
4 May 30th one.

5 MEMBER MUNN: Oh, well --

6 MR. HINNEFELD: Oh, this was --
7 was that the additional information we sent?

8 CHAIR GRIFFON: Oh, was it in the
9 newer version? Okay.

10 MR. HINNEFELD: Yes, there was --
11 this is one where after one of these meetings
12 there was a series of things we probably
13 provided additional information on. And I did
14 submit it on the matrix. I'll go back. I'm
15 doing that all the time, but I submitted it
16 another way. I submitted it on a different
17 piece of paper.

18 CHAIR GRIFFON: Okay.

19 MR. HINNEFELD: And I can't find
20 it now, but --

21 CHAIR GRIFFON: So it's not in the
22 August 20th matrix?

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1 MR. HINNEFELD: No.

2 CHAIR GRIFFON: It's somewhere
3 else?

4 MR. HINNEFELD: No, it's somewhere
5 else.

6 CHAIR GRIFFON: All right.

7 MR. HINNEFELD: Sometimes I print
8 those off and save them in the file. Oh,
9 okay. Hey, I'm starting to remember this now.
10 Yes, we, I believe, sent additional
11 information somewhere around June. And I
12 believe what -- this has to do with, I think
13 whether neutron doses should be included.

14 MR. FARVER: Well, it also relates
15 to 127.3, 127.5, shallow doses, neutron doses.
16 I believe that's all. I believe you sent the
17 information.

18 MR. HINNEFELD: Yes.

19 MR. FARVER: Oh, I don't know.
20 That's one level. The response is contingent
21 upon the EU's work location.

22 MR. HINNEFELD: Yes, and their

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1 work location was in -- I mean, they were in
2 the 100 area at Hanford, which is the reactor
3 general area. But they actually worked in
4 Building 108F, the biology laboratory.

5 MEMBER MUNN: Is that the reactor?

6 MR. HINNEFELD: Okay. So that is
7 a reactor.

8 MEMBER MUNN: Yes, well, it's
9 adjacent. It's on the same pad. It's not
10 near the reactor itself.

11 MR. HINNEFELD: Okay. Because
12 105F is the reactor building or 108, the F
13 Building?

14 MEMBER MUNN: No.

15 MR. HINNEFELD: See according to
16 this --

17 MEMBER MUNN: 105B is the reactor
18 building.

19 MR. HINNEFELD: Okay. According
20 to this, 108F was where the person worked.
21 And while that's in the 100 area, it's not
22 immediately next to the reactor building.

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1 MEMBER MUNN: No, it's not in the
2 reactor building.

3 MR. HINNEFELD: And so because of
4 that, even though he worked in the 100 area,
5 we felt that the neutron dose wouldn't be
6 included. Okay.

7 DR. MAURO: So we have a person
8 here with film badge reading, but no -- the
9 question is whether it's neutron or --

10 MR. HINNEFELD: I believe that was
11 the nature of it.

12 DR. MAURO: As a common comment.

13 MR. HINNEFELD: Yes.

14 DR. MAURO: Right.

15 MR. HINNEFELD: Well, apparently,
16 this is complicated, because there were two of
17 them already. It was like a rework dose
18 reconstruction, the one that was reviewed.
19 Does that sound familiar to you?

20 MR. FARVER: Yes.

21 DR. MAURO: Yes.

22 MR. HINNEFELD: And there has been

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1 some significant changes between the first
2 version of the dose reconstruction and the
3 second.

4 MR. SIEBERT: Efficiency methods
5 versus having to do --

6 MR. HINNEFELD: Yes, the first
7 version used efficiency methods, which
8 included a lot of stuff, and real conservative
9 -- I mean, a favorable selection of work
10 location. They are in the 100 area. We will
11 put them in the reactor. The reworked version
12 left that out, because it got up to the --
13 within the 45 to 50 percent number and so we
14 don't have these -- we don't want to do an
15 overestimating efficiency method in that
16 range.

17 So let's find out where they did
18 work and it turns out while they were in the
19 100 area they were actually not in the reactor
20 area. So the neutrons dropped out of the dose
21 range. And I think some other things probably
22 did, too.

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1 CHAIR GRIFFON: So you determined
2 that by what? By their --

3 MR. SIEBERT: On job title lab
4 technician work location.

5 CHAIR GRIFFON: Okay.

6 MR. SIEBERT: In Building 108, the
7 biology lab.

8 CHAIR GRIFFON: Right, right.

9 MR. HINNEFELD: So yes, but in
10 terms of the record, we pulled that off.

11 CHAIR GRIFFON: It wasn't like a
12 maintenance person that could have been --
13 right, right, right.

14 MR. HINNEFELD: But it was a lab
15 technician.

16 CHAIR GRIFFON: Yes.

17 MR. HINNEFELD: He worked in files
18 laboratory.

19 CHAIR GRIFFON: Right.

20 MR. HINNEFELD: So I don't know,
21 right, from reading what I have here, which
22 record we pulled that off of. I think the --

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1 gosh, I'm not that familiar with the Hanford
2 dosimetry records. A lot of sites= dosimetry
3 records are pretty good about -- or are pretty
4 specific about work location or area that a
5 person is assigned to. But not all of them.
6 So I don't remember Hanford that well.

7 MR. FARVER: Yes, the concern was
8 that you assume the 300 area for the entire
9 time period when we was working on the 300
10 area. Now --

11 CHAIR GRIFFON: And it wasn't only
12 neutrons, did you understand it was for --

13 MR. FARVER: Well, this goes on
14 about neutrons, because even in the DR it says
15 the EU was exposed to photon radiation.

16 MR. HINNEFELD: Okay. There are
17 some more of our responses. So the dose
18 reconstruction does, in fact, use the 300 area
19 to select the photon energy distribution. And
20 so for that reason they said we'll just assume
21 they worked in the 300 area, because that has
22 the 100 percent, 30 to 250 keV. And 108F if

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1 you -- if you would use the specific energy
2 distribution of that, you would have 25
3 percent, greater than 250 and 75 percent
4 greater than 250. So the more -- the higher
5 DCF the more favorable the outcome is 100
6 percent, 30 to 250, so that was selected in
7 that range.

8 MR. FARVER: Okay. And part of
9 the confusion was, like you said, there was a
10 previous --

11 MR. HINNEFELD: Yes.

12 MR. FARVER: -- dose
13 reconstruction performed.

14 MR. HINNEFELD: Yes. And so --

15 MR. FARVER: With different
16 assumptions.

17 MR. HINNEFELD: -- while they
18 worked at 100 and 300, if someone -- the 100
19 area and that's all you know and you generally
20 think some neutrons should be included. In
21 this case, we knew some additional information
22 about where they worked and they weren't

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1 around the reactor. So that's why.

2 CHAIR GRIFFON: I thought Doug
3 said also something about shallow doses.

4 MR. FARVER: It goes on to another
5 finding about shallow dose.

6 CHAIR GRIFFON: Yes. Separate
7 from this? Because this says -- this seems
8 like the overarching one, 127.1.

9 MR. FARVER: Yes, it is.

10 CHAIR GRIFFON: Okay.

11 MEMBER MUNN: I will have to
12 assert if this was chemical lead technician
13 and he worked in the 100 area and the 300
14 area, he would have been in all cases strictly
15 during laboratory tech work. It would be
16 highly unlikely he would be in the reactor
17 area.

18 MR. FARVER: Okay. So the 300
19 area would be the more appropriate.

20 MEMBER MUNN: The 300 area is
21 clearly where most of the chemical labs are
22 located.

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1 MR. FARVER: Okay.

2 MEMBER MUNN: I shouldn't say
3 where most of them are. Where a large number
4 of them are.

5 DR. MAURO: But in any case, the
6 neutron exposure would be anticipated for
7 working in any of these labs.

8 MEMBER MUNN: I would not
9 anticipate given the information I have heard
10 here, which was the location.

11 MR. FARVER: Well, actually, some
12 of these findings hinged on the work location.

13 MEMBER MUNN: Yes.

14 MR. FARVER: So once we get that
15 squared away, that will take care of a couple
16 of these others.

17 CHAIR GRIFFON: Well, I put SC&A
18 will review NIOSH's response, because we
19 really haven't seen it, so we will get those
20 in.

21 MR. HINNEFELD: Yes.

22 CHAIR GRIFFON: It sounds like it

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1 is going to get in.

2 MR. HINNEFELD: I'll resend the
3 latest.

4 CHAIR GRIFFON: It sounds like a
5 laboratory and you've got it pretty well-
6 documented that it was a laboratory individual
7 and not likely to have neutrons. And then
8 we'll move on to these other findings and see
9 where we stand.

10 MR. HINNEFELD: Scott found that
11 the record of those workers was on the medical
12 record, on their x-ray record. It has the
13 Building 108.

14 CHAIR GRIFFON: Well, let's just
15 go through these. 127.2, I have SC&A agrees
16 that the approach is acceptable for this
17 situation.

18 MR. FARVER: Yes.

19 CHAIR GRIFFON: Okay. So SC&A
20 agreement on that one. 127.3, SC&A will
21 review further. And you've got a comment on
22 your sheet.

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1 MR. FARVER: Right. And
2 basically, this has to do with the shallow
3 dose calculation whether you use greater than
4 15 keV or you use less than 30 keV photons.
5 Photons or electrons. Having to do with
6 whether you work around plutonium or not,
7 which goes back to work location, which is
8 what we just went through.

9 So based on the work location, the
10 fact that the organ of interest is the breast,
11 which is handled a little differently, you
12 know, tech 17. You went back -- I went back
13 and looked at it and as long as we agree with
14 the work location, which is 127.1, then 127.3
15 is fine.

16 CHAIR GRIFFON: Okay.

17 MR. FARVER: In other words --

18 MR. HINNEFELD: And we will
19 provide you that. And so we'll send --

20 MR. FARVER: In other words, they
21 calculated the shallow dose in breast based on
22 not working around plutonium.

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1 CHAIR GRIFFON: Right.

2 MR. FARVER: Which is correct if
3 he did actually work in the, you know, 300
4 area in the correct location.

5 CHAIR GRIFFON: Well, but this
6 other lab, I don't know what he did in the
7 labs. He or she.

8 MR. FARVER: Right.

9 CHAIR GRIFFON: So okay. So we
10 will just leave it at that then. Check it
11 contingent upon work location, right?

12 MR. FARVER: Right.

13 CHAIR GRIFFON: So we'll include
14 the record of the work location when we send
15 our 127.1 talking about the list. Okay.
16 Okay. 127.4, SC&A agrees, no further action.

17 MR. FARVER: Yes, that's good.

18 CHAIR GRIFFON: 127.5, fails to
19 find missed neutrons. This goes back to
20 127.1, doesn't it?

21 MR. FARVER: Yes, yes, correct.

22 CHAIR GRIFFON: Okay. All right.

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1 127.6, SC&A agrees.

2 MR. FARVER: Correct.

3 CHAIR GRIFFON: 127.7, agrees, no
4 further action. 127.8, I didn't have a NIOSH
5 response on this. This is the internal --

6 MR. FARVER: Fission product?

7 CHAIR GRIFFON: Yes.

8 MR. FARVER: Does this relate to
9 this work then?

10 CHAIR GRIFFON: Yes, in some
11 fashion.

12 MR. SIEBERT: Where are we?

13 CHAIR GRIFFON: 127.8.

14 MR. HINNEFELD: I've got the -- I
15 originally --

16 CHAIR GRIFFON: Yes.

17 MR. HINNEFELD: Okay. So we've
18 got that. Well, we have a response here. It
19 will be on the additional -- the latest
20 version of the additional information. I'll
21 send that back out. Same file, except for
22 127.1 includes this, our additional

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1 information on 127.8, which is actually our
2 initial response. There's no initial response
3 on the matrix. And in fact 127.9, I guess is
4 on that same.

5 MR. SIEBERT: Yes.

6 MR. HINNEFELD: Is on that same
7 piece.

8 MR. SIEBERT: And 10.

9 MR. HINNEFELD: And 10.

10 CHAIR GRIFFON: You know what, I
11 went over 127.5 a little quickly there,
12 because it is the work location question, but
13 it is also this Sodium-24 question. Do we
14 close that out on the activation? I think
15 NIOSH makes a compelling argument, you know,
16 that the exposure levels needed to yield this
17 sort of neutron influx that would activate
18 enough sodium just aren't available in those
19 buildings where the person worked. But I
20 still have that note that NIOSH is saying
21 we're going to follow-up on that.

22 MR. FARVER: I don't know. This

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1 is the --

2 CHAIR GRIFFON: Okay.

3 MR. FARVER: -- ending solution.

4 44 activation question.

5 CHAIR GRIFFON: Yes, okay.

6 MR. FARVER: And I don't know if
7 that's ever been discussed, resolved.

8 CHAIR GRIFFON: Well, it is
9 discussed right there in their response.

10 MR. FARVER: Right.

11 CHAIR GRIFFON: Yes. So we will
12 just leave it and you can look further at that
13 or go ahead.

14 DR. MAURO: Yes. Well, it wasn't
15 resolved at the Hanford issue resolution.

16 CHAIR GRIFFON: Oh, it hasn't
17 been?

18 DR. MAURO: No. There is still
19 some discussion/debate regarding it. However
20 the Sodium-24 that you observed that people
21 was due to drinking water versus a neutron
22 exposure --

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1 CHAIR GRIFFON: Right.

2 DR. MAURO: -- I think there has
3 been a back and forth on that.

4 CHAIR GRIFFON: Yes.

5 DR. MAURO: We haven't closed it
6 out.

7 MR. FARVER: Because this came up
8 during one of our one on one calls recently on
9 another case we were reviewing. So I don't
10 know that it has ever been closed out.

11 CHAIR GRIFFON: Okay. I'm also
12 going to put a reference into the site profile
13 review.

14 DR. MAURO: Yes, still active.

15 CHAIR GRIFFON: Right, right, so
16 we know to cross-reference that. Okay. I'm
17 sorry, now, we were ahead to 127.8, 9 and 10,
18 there's additional information or our initial
19 response is actually on that additional
20 information page that I'll resend.

21 DR. MAURO: Oh, okay.

22 CHAIR GRIFFON: Okay.

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1 MR. FARVER: And in this case, the
2 internal dose in products that we were talking
3 about, I don't know if fission products is the
4 right term. It has to do with the radon
5 generator that was used in the 1008F and
6 Carbon-14 for animal studies and other
7 nuclides.

8 CHAIR GRIFFON: Which one are you
9 on now?

10 MR. FARVER: I believe that was
11 the one.

12 MR. HINNEFELD: 10.

13 CHAIR GRIFFON: 10.

14 MR. HINNEFELD: Yes.

15 CHAIR GRIFFON: Oh, 10, okay.

16 MR. FARVER: Oh, okay, that's
17 right. That's not 8.

18 CHAIR GRIFFON: And you are going
19 to -- you've got a response to that, right?
20 Stu, you're going to research that?

21 MR. HINNEFELD: Yes, yes.

22 CHAIR GRIFFON: All right. We are

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1 just going to pass over those for now until we
2 get NIOSH's response.

3 MR. HINNEFELD: Sure.

4 CHAIR GRIFFON: We probably
5 already have it somewhere, but -- all right.
6 127.9, is that the same status? There is a
7 response there. I see, see 127.5 is my note,
8 NIOSH will follow-up. Are they linked to
9 127.5?

10 MR. SIEBERT: It is a neutron.

11 CHAIR GRIFFON: Okay. It's a
12 neutron, yes. It's the Sodium-24 neutron.

13 MR. SIEBERT: Ingestion from
14 drinking water.

15 CHAIR GRIFFON: Right. It's a
16 question of whether it was neutron activation,
17 right. What, Wanda, I can't hear you.

18 MEMBER MUNN: Oh, I'm muttering to
19 myself.

20 CHAIR GRIFFON: Oh, okay.

21 MEMBER MUNN: What 127.9 actually
22 is about and Scott just said drinking water.

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1 CHAIR GRIFFON: Well, I think they
2 assigned it as an ingestion dose. And there
3 is a question of whether it is neutron
4 activation caused the Sodium-24.

5 DR. MAURO: The last time this was
6 discussed, I remember Jim saying that
7 depending on the location in the plant, I
8 guess, if you are down gradient, like where
9 the discharges were, the Columbia River and
10 other groundwater is being -- the water is
11 being supplied, it was Sodium-24. And then
12 there is lots of evidence that the body burden
13 observed of Sodium-24 is from that water.

14 And at the same time, we were very
15 much involved in a debate regarding neutron to
16 photon ratios associated with the reactor=
17 exposure. And I remember one of our arguments
18 were we do have -- that was located at a place
19 that would have been up gradient of that. And
20 he has a new Sodium-24 burden.

21 So at least in that case, the --
22 you know, there was no reason to believe that

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1 he got his water, you know.

2 CHAIR GRIFFON: Right.

3 DR. MAURO: But since then, okay,
4 since the subsequent -- about a month ago,
5 NIOSH issued comprehensive reports on neutron
6 to photon ratios as measured throughout the
7 Hanford. And we reviewed it. And we walked
8 away. I can tell you, of course, the subject
9 of the procedure -- well, wherever we review,
10 whether it's the Hanford -- I guess it would
11 be part.

12 CHAIR GRIFFON: Yes, yes.

13 DR. MAURO: It would be part of
14 the Hanford. It's unique to Hanford. Sorry.

15 MEMBER MUNN: Yes, yes.

16 DR. MAURO: But I do recall
17 reading the report. And the report showed
18 lots and lots of data where neutron spectra,
19 the right instrumentation was used to get the
20 full neutron energy spectra and simultaneously
21 photon information.

22 CHAIR GRIFFON: Right.

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1 DR. MAURO: So very good -- it
2 appeared to us that you had lots and lots of
3 good data on neutron to photon ratios, except
4 in the end reactor, I think it was. That was
5 the only place that had a hole. And which
6 brings us to a place which says that well, now
7 that we are in a position to judge what the
8 true neutron exposures were or the true
9 neutron to photon ratios were, it sort of --
10 and if we have photon film badge readings and
11 we have location, we're probably in a really
12 good position to predict what the neutron
13 exposures are, which makes the Sodium-24 issue
14 moot.

15 CHAIR GRIFFON: Well, except --

16 DR. MAURO: Because --

17 CHAIR GRIFFON: -- if you can't
18 explain that person up gradient. Why they
19 would have that, you know.

20 MR. FARVER: Well, they were up
21 gradient, but still in the 100 area.

22 DR. MAURO: Well, good question.

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1 I don't know.

2 CHAIR GRIFFON: Maybe not moot,
3 but I see what you're saying.

4 DR. MAURO: I'm saying that we are
5 have advanced --

6 CHAIR GRIFFON: Right.

7 DR. MAURO: -- the state of
8 knowledge greatly because of this special
9 study that -- I guess, these records that you
10 retrieved on this very subject.

11 CHAIR GRIFFON: Yes, yes.

12 DR. MAURO: I think it's -- and I
13 recall that being one of the big ticket items
14 related to the SEC issue. Can you reconstruct
15 neutron doses?

16 CHAIR GRIFFON: Yes.

17 DR. MAURO: And I think a big
18 subject is going to be, when the day comes,
19 that we meet on Hanford, it's going to come to
20 that. So now, whether or not that is going to
21 resolve this, I don't know.

22 MR. HINNEFELD: Sodium and zinc in

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1 drinking water, I mean, Hanford included that.

2 You know, it was -- it showed up on in vivo
3 counts with some regularity.

4 MEMBER MUNN: Yes.

5 DR. MAURO: And there's no doubt
6 it's true.

7 MEMBER MUNN: And it was reported
8 to the employees.

9 DR. MAURO: Yes.

10 MEMBER MUNN: You know, everybody
11 knew that it was in the water.

12 MR. HINNEFELD: Well, I remember
13 specifically, because you know, our, you know,
14 position was they got that, you know, for our
15 program. That dose is because they worked at
16 the plant and so it was part of the dose. And
17 so we -- they ingested it and so it's an
18 ingestion.

19 DR. MAURO: You know, absolutely.

20 MR. HINNEFELD: But Hanford had
21 that. You know, Hanford concluded that there
22 was -- those radionuclides were in the

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1 drinking water and they saw it in vivo.

2 DR. MAURO: And we don't dispute
3 that.

4 CHAIR GRIFFON: But that kind of
5 example that raises the question though if
6 there is an up gradient, they wouldn't have
7 got that.

8 MR. HINNEFELD: But when you say
9 up gradient --

10 CHAIR GRIFFON: I know, I know.

11 MR. HINNEFELD: In other words --

12 CHAIR GRIFFON: I'm not sure.

13 MR. HINNEFELD: -- the drinking --
14 I remember during the --

15 DR. MAURO: I remember the meeting
16 very clearly and first of all, it's very
17 important to point out the only the reason
18 Sodium-24 issue came up in the first place was
19 we were offering that up as indirect evidence
20 that maybe your neutron to photon ratios
21 aren't trustworthy.

22 CHAIR GRIFFON: Right.

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1 DR. MAURO: But it wasn't -- so
2 now that you have, you know, the data --

3 CHAIR GRIFFON: Right.

4 DR. MAURO: -- to justify your
5 neutron dose, which by the way it did go up on
6 a factor of two, so in other words it was good
7 that the data came in.

8 CHAIR GRIFFON: Yes.

9 DR. MAURO: It showed that the
10 neutron to photon ratio was more than what you
11 were originally using.

12 CHAIR GRIFFON: Yes.

13 DR. MAURO: Now, as far as the
14 Sodium-24, remember the only reason Sodium-24
15 was put on the table in the first place was
16 that indirect evidence made by -- from the
17 first spreadsheet. And all we have to say in
18 defense of our position was, you know, at
19 least for that particular person, there was
20 reason to believe that his particular Sodium-
21 24 body burden may not have been due to
22 drinking water, but due to neutron to photon.

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1 Now, that's my --

2 CHAIR GRIFFON: Are you sure of
3 that?

4 DR. MAURO: My recollection now as
5 it applies to this particular case, I'm not
6 too sure, you know, where it takes us.

7 CHAIR GRIFFON: All right. We
8 will leave this one there for now. I mean,
9 you know, we have the two other responses, 8
10 and 10, are coming from Stu and 9 is referred
11 back to 127.5 for now. I don't think we can
12 take it any further right now here.

13 DR. MAURO: Could I? Let me just
14 say that so, I mean, just as a -- maybe there
15 is a way to bring closure. This is the fellow
16 with the location, right?

17 CHAIR GRIFFON: Yes.

18 DR. MAURO: Now, if it is
19 confirmed that he was not in a location that -
20 - where the potential for neutron exposure
21 would exist, then the Sodium-24 ratio, if it
22 has been met and measured, then it's just

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1 certainly a drinking water problem. And you
2 would reconstruct it the way you normally do
3 reconstruct Sodium-24.

4 So -- and now, was that what was
5 done here? The dose was reconstructed, based
6 on assuming he was -- he ingested Sodium-24?

7 CHAIR GRIFFON: Yes, yes.

8 MR. HINNEFELD: Yes, that's what
9 was done, yes.

10 DR. MAURO: Okay. Well, I mean,
11 that may put -- that may be --

12 MR. HINNEFELD: This was the guy
13 where we got his 100 work location as the
14 biology lab.

15 DR. MAURO: Right.

16 MR. HINNEFELD: We saw his
17 medical.

18 DR. MAURO: Yes, once we take the
19 neutrons out of the equation, if that's
20 possible, then all of a sudden it becomes a
21 straightforward dose reconstruction.

22 MEMBER MUNN: Well, there are

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1 maps, you know.

2 MR. HINNEFELD: For that matter,
3 you know, when you talk about the up gradient
4 and down, I thought, you know, the 100 area is
5 water.

6 DR. MAURO: General, yes. Well,
7 that --

8 MR. HINNEFELD: That's what I
9 thought.

10 DR. MAURO: Yes, I remember that
11 being said after meeting --

12 MR. HINNEFELD: Because
13 theoretically, I don't know how many well
14 fields or what the well situation was at
15 Hanford.

16 DR. MAURO: Right.

17 MR. HINNEFELD: I mean, I would
18 expect you would have a lot of well fields.
19 But when you distribute, I mean, when you have
20 100 water supply or just --

21 MEMBER MUNN: Virtually all of the
22 drinking water.

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1 DR. MAURO: There's no escaping.
2 They're the same.

3 MEMBER MUNN: For the reactor, the
4 water all came out of Columbia. And the
5 uranium content of the water there was still
6 relatively high, because it came across the
7 uranium bed up in Canada.

8 DR. MAURO: Right.

9 MEMBER MUNN: But most of the
10 drinking water for the reactor site, unless
11 this person was somewhere other than that --

12 DR. MAURO: That was not --

13 MEMBER MUNN: -- reactor site.

14 DR. MAURO: I do clearly remember
15 the argument that you made. This particular
16 person was not at a location where you would
17 expect his drinking water contained Sodium-24.
18 I remember that was --

19 MR. HINNEFELD: I do remember that
20 argument and I just remember that --

21 DR. MAURO: Whether it is true or
22 not, I don't know.

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1 MR. HINNEFELD: I think
2 programmatically, we adopted this based on
3 Hanford's conclusion that the drinking water
4 is some part of the --

5 DR. MAURO: And we don't dispute
6 that.

7 MR. HINNEFELD: -- was -- had this
8 radionuclides in it.

9 MEMBER MUNN: Yes.

10 MR. HINNEFELD: And based on that
11 conclusion and it's showing up -- because it
12 showed up regularly in in vivo counts, that's
13 how we determined it. That's how we interpret
14 that result.

15 MEMBER MUNN: Yes.

16 CHAIR GRIFFON: I mean, it's
17 certainly a thread -- string that has got to
18 be pulled, but you are doing that in the site
19 profile review, I think.

20 DR. MAURO: That has got -- yes.
21 Now, when we -- yes, that one -- when we get
22 back to the site profile, let's say we close

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1 that out.

2 CHAIR GRIFFON: That's all right.

3 DR. MAURO: We can close out --
4 let's say we close out the neutron/photon
5 issue.

6 CHAIR GRIFFON: Yes.

7 DR. MAURO: And that really will
8 need direct -- I mean, close it out good.
9 What really is at play here is to make sure
10 this fellow wasn't exposed to neutrons where
11 his location was. And that makes this all
12 moot. It doesn't apply to him. Obviously, if
13 we've got Sodium-24, it has to be due to the
14 drinking water.

15 MR. HINNEFELD: Right. Okay.

16 CHAIR GRIFFON: All right.
17 127.11, two more findings in this case.
18 Breath sample monitoring reported in CATI. I
19 have NIOSH will follow-up on whether radon
20 breath testing occurred in the 300 area.
21 Well, 300 area. I guess, he was in the 300
22 and the 100 area, right? But anyway, and what

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1 potential radium source term existed? Modify
2 response.

3 MR. HINNEFELD: I've got nothing
4 new out for that one.

5 CHAIR GRIFFON: So they -- I guess
6 the person claimed in their CATI that they
7 have radon breath samples?

8 MR. HINNEFELD: Sounds like it.

9 DR. MAURO: Yes.

10 CHAIR GRIFFON: Maybe they were --

11 MR. HINNEFELD: No, they said they
12 were -- they gave breath samples.

13 CHAIR GRIFFON: Oh, breath
14 samples.

15 MR. HINNEFELD: It doesn't say
16 radon specifically.

17 DR. MAURO: Correct.

18 CHAIR GRIFFON: Yes. So that's
19 just a follow-up on that. You'll still treat
20 that as an action, yes.

21 MEMBER MUNN: NIOSH will follow
22 up, right?

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1 CHAIR GRIFFON: Yes.

2 MR. HINNEFELD: I think my thought
3 of that is when you ask someone if they left a
4 breath sample, they may be thinking of a
5 spirometry test.

6 CHAIR GRIFFON: Yes.

7 MR. HINNEFELD: That's normally,
8 because I mean, breath samples were not very
9 common, yes.

10 MEMBER MUNN: Oh, that's right.

11 CHAIR GRIFFON: NIOSH failed to --
12 127.12, I'm sorry, NIOSH failed to properly
13 address incident report in two CATI reports.
14 Why are there two CATI reports?

15 MR. HINNEFELD: Two survivors.

16 CHAIR GRIFFON: Two survivors,
17 okay. And you had a follow-up action on this.

18 MEMBER MUNN: That kind of
19 contamination event ought to be in the work
20 record.

21 CHAIR GRIFFON: This was a
22 contamination event?

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1 MEMBER MUNN: Yes, they were
2 pretty good about that. At least your
3 response seems to make it sound so.
4 Contamination event investigation.

5 CHAIR GRIFFON: Yes.

6 MEMBER MUNN: Yes.

7 CHAIR GRIFFON: Can you pull up
8 the CATI and see what kind of -- what they are
9 talking about?

10 MEMBER MUNN: Give me a second.

11 CHAIR GRIFFON: And you're saying
12 nothing of this type was mentioned. You know,
13 here is one of my standard sub-20 questions.
14 Did you interview coworkers?

15 MR. HINNEFELD: Yes, but you know,
16 this -- when did this happen?

17 CHAIR GRIFFON: This was early on.

18 MR. HINNEFELD: This was pretty
19 early, right?

20 CHAIR GRIFFON: Yes, yes.

21 MR. HINNEFELD: You're asking
22 people to remember an awful lot.

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1 CHAIR GRIFFON: I know, I know.

2 It would have to be a very memorable --

3 MR. HINNEFELD: Memorable. I

4 mean, a really serious event.

5 MEMBER MUNN: Yes, right.

6 CHAIR GRIFFON: Right, right.

7 MEMBER MUNN: Especially if the
8 incident were just a minor incident.

9 MR. HINNEFELD: Yes, most of us.

10 CHAIR GRIFFON: Yes.

11 MR. HINNEFELD: I don't think
12 remember contamination events.

13 MEMBER MUNN: Contamination to
14 that area of the body is highly unusual.

15 CHAIR GRIFFON: Well, then you
16 should retract that statement in the middle of
17 your response, too, because you say no
18 incident of this type was reported by any
19 other telephone interviews. Well, they are
20 not likely to.

21 MR. FARVER: Apparently, in the
22 January report there is an incident identified

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1 in the 300 area. There was a leak in the 300
2 area when he was working in the lab. It
3 turned his hair orange for a while. It's
4 uncertain if the employee was directly
5 involved in the incident. This occurred in
6 the '80s. So that's one statement in the
7 CATI.

8 MEMBER MUNN: And they don't know
9 what kind of leak? In a 300 area lab, but not
10 reported.

11 MR. FARVER: Now, on the second
12 one, another survivor, apparently, there was
13 three CATI reports, three survivors. Another
14 one reported something was found in a wall and
15 everyone was sent home. The EE's hair turned
16 orange the one day at work and remained that
17 way for some time. So there is two separate
18 survivors.

19 MEMBER MUNN: I can assure you
20 that the finding in the wall, which was well-
21 publicized in the '80s, was not a toxic
22 substance nor was it radioactive. And so the

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1 --

2 CHAIR GRIFFON: What was the
3 finding in the wall?

4 MEMBER MUNN: Oh, it was some
5 minor thing. Somebody had just set something
6 there and it was -- they plastered -- it was
7 nothing of that, but they got all -- it was
8 well --

9 CHAIR GRIFFON: Okay.

10 MEMBER MUNN: The --

11 MR. FARVER: Hair turned orange.

12 MEMBER MUNN: The hair turned
13 orange.

14 CHAIR GRIFFON: Yes, I want to
15 hear more about that.

16 MEMBER MUNN: It would not have
17 been related to that particular incident.

18 CHAIR GRIFFON: Okay.

19 MEMBER MUNN: Although it was
20 mentioned.

21 CHAIR GRIFFON: No radiation?

22 MEMBER MUNN: It would not have

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1 been.

2 MR. HINNEFELD: It would have to
3 be some chemical or something.

4 MR. FARVER: Oh, no doubt.

5 MR. HINNEFELD: Yes.

6 MR. FARVER: A chemical. The
7 point was these things are identified in the
8 CATI reports.

9 CHAIR GRIFFON: Right.

10 MR. FARVER: And no action was
11 taken.

12 CHAIR GRIFFON: Okay.

13 MR. HINNEFELD: Well, we will
14 agree that everything in the CATI should be
15 addressed with dose reconstruction.

16 CHAIR GRIFFON: And what I just
17 heard Wanda say this was a well-publicized
18 incident in 1980, so it can be tracked back.

19 MR. HINNEFELD: Yes. You know,
20 maybe it's like she said, it's non-
21 radiological, non-toxic, whatever, you know.
22 Maybe they are tying two things together that

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1 don't go together, you know.

2 MEMBER MUNN: Yes, that's my
3 thought.

4 CHAIR GRIFFON: But I mean, at
5 least you can pursue that, I guess.

6 MR. FARVER: And even if it is
7 just something to say we have reviewed these
8 two things.

9 CHAIR GRIFFON: Yes.

10 MR. FARVER: And most likely it
11 may have been a chemical reaction.

12 MR. HINNEFELD: If we were doing
13 this dose reconstruction thing, we would --
14 the dose reconstruction we are talking about
15 both these things, and it would say something
16 -- it would probably say that the orange hair
17 was probably due to an interaction with some
18 chemical, but not really to exposure, and the
19 item found in the wall and the building
20 evacuation for that purpose would not have
21 caused an official dose. The person was
22 monitored after all. The person worked on

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1 badge.

2 CHAIR GRIFFON: But you wouldn't
3 investigate any further?

4 MR. HINNEFELD: No.

5 CHAIR GRIFFON: You would just
6 change the wording?

7 MR. HINNEFELD: We would. Yes.
8 I'll tell you what --

9 CHAIR GRIFFON: But I mean --

10 MR. HINNEFELD: -- Mark, we will
11 not chase something like this down. Because
12 you can say it's well-publicized and he has
13 had five on one hand, that doesn't mean you
14 can do it in a 10 or 15 minute phone call.

15 CHAIR GRIFFON: No, I know.

16 MR. HINNEFELD: There's a lot of
17 work involved.

18 CHAIR GRIFFON: Right.

19 MR. HINNEFELD: And we would not
20 choose to invest that work to chase something
21 down that we are confident isn't going to
22 change the dose reconstruction, because

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1 there's sufficient conservatism in the dose
2 reconstruction to say it is good enough.

3 CHAIR GRIFFON: Oh. And that goes
4 back to my general question, which you guys
5 have on the record several times, which is
6 when will you chase one down? You know, I
7 think a handful is the answer I've gotten.
8 That you will actually call coworkers or
9 something to verify something.

10 You know, you can't always assume
11 that these -- remembering incidences are
12 bounded by chronic intake film. You know,
13 that doesn't always answer the question.

14 MR. HINNEFELD: It could very well
15 be.

16 CHAIR GRIFFON: You know, I --

17 MR. HINNEFELD: That could very
18 well be.

19 CHAIR GRIFFON: -- am agreeing
20 that, you know, this one, the way it sounds
21 doesn't sound to me like there is probably
22 anything there, you know.

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1 MR. HINNEFELD: I can tell you one
2 example when we called a coworker. There was
3 a guy who said he was involved in an event, in
4 a reactor at Savannah River. And that
5 reactor, I forget which one it was, but it was
6 damaged and shutdown for a while. And so I
7 said let's call these coworkers.

8 CHAIR GRIFFON: Yes.

9 MR. HINNEFELD: Nobody remembered.

10 CHAIR GRIFFON: Okay. Right,
11 right.

12 MR. HINNEFELD: Okay.

13 CHAIR GRIFFON: Yes.

14 MR. FARVER: Yes, but the point is
15 you called and you followed-up.

16 CHAIR GRIFFON: Right, right.

17 MR. FARVER: You couldn't confirm
18 it, so you just -- you don't --

19 MR. HINNEFELD: Yes.

20 MR. FARVER: You can ignore it
21 then, because you didn't do follow-up.

22 MR. HINNEFELD: Again though, we

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1 invested days.

2 MR. FARVER: Yes.

3 MR. HINNEFELD: And to say that --
4 now that one struck me.

5 CHAIR GRIFFON: It's a judgment
6 call really.

7 MR. HINNEFELD: Yes, yes. That
8 one struck me, well, the reactor is damaged.

9 CHAIR GRIFFON: Right, right.

10 MR. HINNEFELD: There was
11 collaboration.

12 MR. FARVER: There is enough
13 evidence.

14 MR. HINNEFELD: There was a
15 collaborating circumstance that gave
16 credibility to a serious event.

17 CHAIR GRIFFON: Yes.

18 MR. HINNEFELD: Okay.

19 CHAIR GRIFFON: Right.

20 MR. HINNEFELD: And those
21 circumstances, I think, is where we would
22 call.

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1 CHAIR GRIFFON: And that was all
2 for 127. So where do we stand with that one
3 then?

4 MR. FARVER: On that one?

5 CHAIR GRIFFON: Yes.

6 MR. FARVER: I don't believe that
7 we --

8 CHAIR GRIFFON: I mean, I have it
9 NIOSH will follow-up for more information, but
10 I'm not sure that --

11 MR. HINNEFELD: I believe what I
12 thought our resolution was is we agree that we
13 should have written the dose reconstruction
14 better.

15 MR. FARVER: And the second part
16 that I have here was, you know, how did that
17 make it through QA? You know, the CATI --

18 MR. HINNEFELD: Well --

19 MR. FARVER: -- should have been
20 reviewed.

21 MR. HINNEFELD: -- at the time
22 that this was done, we didn't have our full

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1 standing order to signify --

2 MR. FARVER: Okay. Yes.

3 MR. HINNEFELD: -- that's how it
4 would have been done through QA.

5 MR. FARVER: Okay.

6 CHAIR GRIFFON: Right.

7 MR. FARVER: A lot of times the
8 reason we bring this up is because when the
9 survivors get the report back and it says
10 there were no incidents identified --

11 MR. HINNEFELD: Yes.

12 MR. FARVER: -- and they say well,
13 we told you about it.

14 MR. HINNEFELD: Yes.

15 MR. FARVER: It takes away
16 credibility from the program.

17 MR. HINNEFELD: That's exactly
18 right.

19 MR. FARVER: Right.

20 MR. HINNEFELD: That is exactly
21 right. And that's why we changed it. Well,
22 just because it would be a better -- well I

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1 was going to say better person, actually a
2 better person, to do this job better is why we
3 changed it.

4 CHAIR GRIFFON: Let's see, I guess
5 we can go a little farther.

6 MR. HINNEFELD: If this group goes
7 to 140 again --

8 CHAIR GRIFFON: I know, I know.
9 This might be the -- let's just call this the
10 last one. We're not going to get through the
11 whole matrix, so, you know, let's try to get
12 through 128 and call it a day.

13 MR. FARVER: Okay. You heard him.
14 He said he was going to call it a day after
15 this one.

16 CHAIR GRIFFON: Yes, it's on the
17 record. You can play it back. All right.
18 128.1, NIOSH has revised their tool,
19 compensable case. Oh, this one is no further
20 action. 128.2, oh, you looked ahead, huh,
21 John?

22 DR. MAURO: Yes. Smiling from ear

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1 to ear.

2 CHAIR GRIFFON: No further action
3 is on 128.2, the same thing. 128.3, NIOSH
4 agrees, NIOSH reassessed and had no effect on
5 the case. That's for 128.3. 128.4, boy, I'm
6 letting you guys off too easy, NIOSH agrees,
7 NIOSH reassessed and had no effect on the
8 case. That was a quickie.

9 I see no reason to plunge on
10 forward. We're not going to finish the
11 matrix. So we will still stick to that. Yes,
12 let's stop here. We will stop here, so I can
13 save everything.

14 All right. So we have some
15 actions, right. What I'll do is -- and I
16 apologize for not having current versions of
17 the sixth and seventh matrix, but I've got
18 like two things to consolidate for the sixth
19 matrix and pull them together into a final
20 form electronic version. And it should be a
21 little easier on the seventh matrix for me to
22 pull it together, because I've got -- I was

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1 making my updates on the computer. And once I
2 get a few things from Stu on the other NIOSH
3 responses --

4 MR. HINNEFELD: Yes, the missing
5 initial responses. Do you want me to put
6 those in the matrix, in a matrix and send them
7 to you or just give you -- you know, maybe
8 those pieces of the matrix?

9 CHAIR GRIFFON: Why don't you give
10 me the pieces, yes.

11 MR. HINNEFELD: Yes.

12 CHAIR GRIFFON: Because otherwise
13 I'll have to cut and paste anyway.

14 MR. HINNEFELD: Okay. I'll just
15 give you those pieces.

16 CHAIR GRIFFON: That would be
17 great, yes. And final item maybe if we can
18 look at calendars for January? I don't know
19 what exists on the calendar now to get a sense
20 of --

21 MR. KATZ: In January, there is a
22 work group meeting, Pinellas, on the 8th.

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1 CHAIR GRIFFON: 8th.

2 MR. KATZ: That's the only thing
3 scheduled so far.

4 CHAIR GRIFFON: I think we want to
5 go beyond there anyway, at least I do. We
6 don't want to be before that.

7 MR. KATZ: No. It's a nightmare
8 before that.

9 CHAIR GRIFFON: Yes.

10 MR. KATZ: Because of Christmas
11 and New Years.

12 CHAIR GRIFFON: Right, right.

13 MR. KATZ: Then you're right
14 there.

15 CHAIR GRIFFON: All right. Let's
16 see.

17 MR. HINNEFELD: Has the Board
18 called a conference on January 13th?

19 MR. KATZ: That's canceled.

20 MR. HINNEFELD: Is it canceled?

21 MEMBER MUNN: Yes.

22 MR. KATZ: Yes, I think that issue

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1 was sent out, I think, today.

2 MR. HINNEFELD: Or if she did send
3 something, I haven't opened it.

4 MEMBER MUNN: Does the Board have
5 the 19th off?

6 MS. HOWELL: The 19th and 20th.

7 CHAIR GRIFFON: What? Huh?

8 MS. HOWELL: If you are in D.C.,
9 the 20th is a holiday.

10 MR. HINNEFELD: Oh, Inauguration
11 Day.

12 MS. HOWELL: Because you can't get
13 anywhere.

14 CHAIR GRIFFON: How about the 15th?
15 Thursday the 15th or is that too soon? I
16 mean, we've got a meeting coming up and then
17 we got the holidays. Is it just too -- yes,
18 let's do it towards the end of the month then.

19 How about Thursday the 29th? I like
20 Thursdays.

21 MEMBER MUNN: Why?

22 CHAIR GRIFFON: I don't know, but

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1 it's --

2 MEMBER MUNN: Well, shoot.

3 MR. KATZ: Thursday the 29th?

4 CHAIR GRIFFON: Yes.

5 MR. KATZ: That looks okay to me.

6 CHAIR GRIFFON: That works so far?

7 It's good to get it on the calendar now,
8 before the meeting comes up next week and
9 we'll be throwing it up, I'm sure.

10 MEMBER MUNN: Now, let me ask a
11 question. Why do you not like Fridays?

12 CHAIR GRIFFON: Nobody likes
13 Fridays.

14 MS. HOWELL: Traveling on Fridays.

15 CHAIR GRIFFON: Yes, traveling on
16 Fridays is very unpleasant.

17 MEMBER MUNN: Well, yes, but how
18 many of you have to travel on Friday?

19 CHAIR GRIFFON: You have to
20 travel.

21 CHAIR GRIFFON: Okay. I got it
22 anyway. Cincinnati, 9:30, standard.

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1 MR. KATZ: Is that good?

2 CHAIR GRIFFON: All right.
3 January 29th. Okay.

4 MS. HOWELL: Is that going to give
5 you enough time to get stuff together for the
6 February Board meeting?

7 CHAIR GRIFFON: The February Board
8 meeting is pretty much -- is the week of
9 President's Day.

10 MS. HOWELL: Will that be enough
11 time?

12 CHAIR GRIFFON: Yes, that's three
13 weeks later.

14 MEMBER MUNN: No, just two weeks
15 really.

16 CHAIR GRIFFON: The 20th then.

17 MR. KATZ: Isn't it the 18th and
18 19th, something like that?

19 MEMBER MUNN: Yes, two weeks out.

20 CHAIR GRIFFON: Yes, 17th through
21 the 19th.

22 MR. KATZ: Okay. In between 2:00

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1 and 3:00.

2 CHAIR GRIFFON: I better put that
3 up on my calendar. It wasn't even on here.

4 MR. KATZ: That's in Albuquerque.

5 CHAIR GRIFFON: Yes.

6 MEMBER MUNN: 17th.

7 CHAIR GRIFFON: Oh, Albuquerque.
8 You're making me travel, too.

9 MEMBER CLAWSON: Oh, wait a
10 minute. Let me break it to you. Let me break
11 out of here.

12 MEMBER MUNN: Yes, I'm all for
13 that.

14 MR. KATZ: So are you going to
15 try, Mark, to do the beta testing or whatever?

16 CHAIR GRIFFON: Yes.

17 MR. KATZ: Prior to that?

18 CHAIR GRIFFON: Yes, I'll work
19 with Kathy. And I might tap into Wanda's
20 experience from the Procedure's Work Group,
21 you know, if --

22 MEMBER MUNN: Thanks a lot.

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1 MR. KATZ: I'll just put it on my
2 calendar now and block out that date.

3 CHAIR GRIFFON: Yes, she will have
4 to run through.

5 DR. MAURO: Data loading is
6 difficult. In other words, what are you going
7 to load? I don't know how far back you can
8 go.

9 CHAIR GRIFFON: Yes.

10 DR. MAURO: Unless you just want
11 to start with this, you know.

12 CHAIR GRIFFON: Well, yes. I'll
13 talk to Kathy and Steve about that, right?

14 DR. MAURO: Yes, Steve -- Kathy
15 and Steve.

16 CHAIR GRIFFON: Why is data --
17 well, anyway, I'll talk --

18 DR. MAURO: Well pulling, you know,
19 the information that is on the current
20 spreadsheets, and all the different
21 spreadsheets that are out there.

22 CHAIR GRIFFON: Yes.

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1 DR. MAURO: See remember --

2 CHAIR GRIFFON: Oh, yes, yes. You
3 want to get your iterations or responses, yes,
4 yes.

5 DR. MAURO: What I ended up doing
6 anyway with the procedures --

7 CHAIR GRIFFON: I mean, the --

8 DR. MAURO: -- there were early
9 procedure meetings. I didn't try to capture
10 them.

11 CHAIR GRIFFON: Right.

12 DR. MAURO: What was in that one.
13 So I picked it up and I said, you know, we're
14 picking it up from here.

15 CHAIR GRIFFON: Oh, no, no. I
16 think we'll do the same thing. I think what I
17 would like to do --

18 DR. MAURO: -- actually the one
19 before.

20 CHAIR GRIFFON: Well, my goal
21 would be for Kathy and the database going
22 forward would be the first five have them as,

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1 basically, final products done.

2 DR. MAURO: They're done,
3 delivered.

4 CHAIR GRIFFON: Put them in the
5 database, but don't put all the --

6 DR. MAURO: Yes, and --

7 CHAIR GRIFFON: -- iterative
8 stuff.

9 DR. MAURO: No, don't put any.

10 CHAIR GRIFFON: Then going forward
11 do the --

12 DR. MAURO: Pick it up from the
13 sixth on, because we've got it.

14 CHAIR GRIFFON: Yes, yes.

15 DR. MAURO: Yes.

16 CHAIR GRIFFON: Right.

17 DR. MAURO: Which is still a big
18 job.

19 CHAIR GRIFFON: That's still a big
20 job, but the first five should be no problem.

21 DR. MAURO: Well, in theory, it's
22 closed out with the delivery.

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1 CHAIR GRIFFON: Right.

2 DR. MAURO: Well, the only problem
3 is the only record -- the record you have of
4 the first five --

5 CHAIR GRIFFON: Yes.

6 DR. MAURO: -- is the transcripts.
7 I mean, that's really what you have as a
8 complete record of what --

9 CHAIR GRIFFON: Yes.

10 DR. MAURO: -- how you got to the
11 first five.

12 CHAIR GRIFFON: But you don't --
13 yes, but we don't -- I don't expect you to go
14 back further for that.

15 DR. MAURO: No, no.

16 CHAIR GRIFFON: No.

17 MS. BEHLING: Perhaps we can just
18 pull information off the matrix.

19 CHAIR GRIFFON: Well, we do, yes.
20 You can basically import it. The problem, I
21 think, is going to be the last column. We
22 will have to probably go in and edit that to

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1 be consistent with the procedures. You know,
2 closed, in abeyance, whatever the terminology
3 that we need there. So that we B- they can
4 track or whatever, yes.

5 MS. BEHLING: Okay.

6 CHAIR GRIFFON: All right. We
7 will work on that in between these meetings.

8 MEMBER MUNN: Okay. Don't be
9 surprised if I try to schedule a decision
10 meeting on the 28th.

11 CHAIR GRIFFON: You're going to
12 double team it again?

13 MEMBER MUNN: If I'm going to come
14 across it, I might just as well.

15 CHAIR GRIFFON: Is that a Friday
16 or the Wednesday?

17 MEMBER MUNN: That would be
18 Wednesday.

19 CHAIR GRIFFON: Oh, that would
20 work, I think, for me. I hear you, okay.

21 MEMBER MUNN: We will know that
22 tomorrow.

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1 CHAIR GRIFFON: I think that's it.

2 MR. HINNEFELD: Thanks, Mark.

3 MS. BEHLING: All right. Thank
4 you.

5 CHAIR GRIFFON: Good work.

6 Meeting adjourned.

7 (Whereupon, the above-entitled
8 matter went off the record at 4:34 p.m.)

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