

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
CENTERS FOR DISEASE CONTROL AND PREVENTION

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NATIONAL INSTITUTE FOR OCCUPATIONAL
SAFETY AND HEALTH
ADVISORY BOARD ON RADIATION
AND WORKER HEALTH

+ + + + +

SUBCOMMITTEE FOR DOSE RECONSTRUCTION REVIEW

+ + + + +

THURSDAY, APRIL 16, 2009

+ + + + +

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

PRESENT:

MARK GRIFFON, Chairman
BRADLEY P. CLAWSON, Member
MICHAEL H. GIBSON, Member*
WANDA I. MUNN, Member*

THEODORE M. KATZ, Acting Designated Federal
Official

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IDENTIFIED PARTICIPANTS:

NANCY ADAMS, NIOSH Contractor*
HANS BEHLING, SC&A*
KATHY BEHLING, SC&A*
LIZ BRACKETT, ORAU*
RON BUCHANAN, SC&A*
HARRY CHMELYSKI, SC&A*
DOUG FARVER, SC&A
STUART HINNEFELD, NIOSH
ELIZABETH HOMOKI-TITUS, HHS*
EMILY HOWELL, HHS
ROY LLOYD, HHS*
JOHN MAURO, SC&A
SCOTT SIEBERT, NIOSH

*Participating via telephone

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P R O C E E D I N G S

9:28 a.m.

MR. KATZ: So this is Ted Katz with the Advisory Board of Radiation Worker Health.

This is a Subcommittee on Dose Reconstruction Review, and let me just check in with the phone first to see if we have board members on the phone.

MS. ADAMS: Ted, this is Nancy. I'm not a board member, but we can hear you.

MR. KATZ: Yes, great. Hi, Nancy.

Wanda, do we have you?

(No response.)

How about Mike Gibson?

(No response.)

And how about John Poston?

(No response.)

CHAIRMAN GRIFFON: Do we need to wait?

MR. KATZ: Clean slate -- a couple of minutes then.

CHAIRMAN GRIFFON: Yes, wait or try

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1 to contact them.

2 MR. KATZ: Yes -- so we're going to
3 wait until it's actually half past.

4 Nancy?

5 MS. ADAMS: Yes.

6 MR. KATZ: Can you try to, I guess,
7 email or call -- I mean, I know Mike knows
8 this is going on and he's going to try to call
9 him, but I haven't heard from Poston or Wanda.
10 Can you just check in with them?

11 MEMBER GIBSON: Ted, I'm here.

12 MR. KATZ: Oh, Mike, welcome.

13 MS. BURGOS: Ted, this is Zaida.
14 Wanda should be there.

15 MEMBER GIBSON: Oh, she should be
16 here physically.

17 MR. KATZ: Wanda should be here
18 physically. Oh, okay. Well, we haven't seen
19 her yet, what? So you traveled there?

20 MS. BURGOS: Yes.

21 MR. KATZ: Okay, that's good to
22 know. And then do you know about John Poston,

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1 Dr. Poston?

2 MS. BURGOS: No. He didn't have
3 travel orders.

4 MR. KATZ: He didn't have travel,
5 so he is calling in. So it sounds like,
6 Nancy, you just need to get a hold of Dr.
7 Poston.

8 MS. BURGOS: I'll try.

9 MR. KATZ: Thanks.

10 MS. ADAMS: Thanks, Zaida.

11 MS. BURGOS: Yes.

12 MR. GRIFFON: Should we -- maybe
13 Wanda thought it was 10 a.m. Is there a
14 possibility?

15 MR. KATZ: She might have. I can
16 go -- let me go try to find her.

17 Okay, so this is Ted Katz again and
18 Wanda's going to be calling in, and let's get
19 roll call done here and get rolling.

20 So starting in the room with --
21 with board members.

22 CHAIRMAN GRIFFON; Mark Griffon

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1 chairing the subcommittee.

2 MEMBER CLAWSON: Brad Clawson.

3 MR. KATZ: And on the phone we have
4 board members?

5 MEMBER GIBSON: Mike Gibson.

6 MR. KATZ: Okay, and still no Dr.
7 Poston. And Wanda said she would be calling
8 in shortly, for a little bit at least.

9 Then going around the room, NIOSH
10 team?

11 MR. HINNEFELD: Stu Hinnefeld from
12 NIOSH.

13 MR. SIEBERT: Scott Siebert, ORAU
14 Team.

15 MR. KATZ: And on the telephone do
16 we have NIOSH ORAU?

17 Okay, and then in the room SC&A?

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

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

20 MR. KATZ: And on the telephone,
21 SC&A any?

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

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

2 MR. BUCHANAN: Ron Buchanan, SC&A.

3 MR. KATZ: Welcome, all of you.

4 And then other federal employees, HHS, et
5 cetera, in the room?

6 MS. HOWELL: Emily Howell, HHS.

7 MR. KATZ: And on the line?

8 MS. ADAMS: Nancy Adams, NIOSH
9 contractor.

10 MR. LLOYD: Roy Lloyd, HHS.

11 MR. KATZ: Welcome, Roy. Okay,
12 then we're all set.

13 CHAIRMAN GRIFFON: Do you have your
14 normal introductory comments?

15 MR. KATZ: Well, we just -- we have
16 a very small group on the phone here, and they
17 know the routine.

18 CHAIRMAN GRIFFON: Okay, I have a -
19 - and I just did this on the plane so it's not
20 like I was withholding an agenda, but I think
21 we all basically know what the agenda is.

22 The one item that I did want to

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1 discuss up front, which -- which might not be
2 obvious, is this question of the DR
3 guidelines.

4 Stu, we had some e-mail --

5 MR. HINNEFELD: Yes.

6 CHAIRMAN GRIFFON: -- back and
7 forth about this, but that's -- I just want to
8 sort of do that as old business. Then I was
9 going to try to go into the sixth and seventh
10 set, and we're down to a fairly limited number
11 on both of the sets, but I'm not sure, because
12 we got responses late from both SC&A and NIOSH
13 that we're going to be able to close all of
14 them out, but at least we can kind of get an
15 update on where we stand.

16 Hopefully, we've at least got
17 responses on all the actions, so we can step
18 through those. That shouldn't take too long.

19 And then I'd like to pick up where we left
20 off on these. I don't think we even got
21 halfway through. I think Doug -- I said
22 halfway, but Doug said probably not even

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1 halfway.

2 So, anyway, we can pick up on the
3 eighth set matrix then continue. This is our
4 first pass through on that matrix, just to
5 remind those on the phone.

6 Then bring us up to lunch with
7 that, and then right after lunch -- and this
8 is probably an important thing for the
9 subcommittee, I'd like to -- I -- I redrafted
10 a version of the first hundred cases report,
11 and we did say at the last board meeting that
12 we took this assignment back and -- and our
13 goal is to come back to the board with a
14 revised version of this.

15 I didn't get any comments from
16 other members, but I did try to put an
17 executive summary up front. I was reading
18 through it again on the plane. I have some --
19 I have some edits to make. What I'm going to
20 do is during the lunch break modify my own
21 copy and then print it off here, and we'll get
22 e-mails to those on the phone.

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1 The report's basically -- the body
2 of the report remains the same. It's just
3 there's a front end now that has sort of an
4 executive summary and we, you know, that --
5 that whole thing is open for discussion,
6 obviously, but I just wanted to get something
7 on the table so we can get some reaction from
8 the -- from the members. And if we get
9 consensus that would be great and we can bring
10 it back to the board.

11 So that's -- I thought that would
12 be good to take up right after lunch when
13 we're fresh, and then we can go back into our
14 normal eighth matrix and go as long as we can,
15 probably 4:30, five, I think we need to break.

16 You know, that's what we've always done in
17 these meetings; that's about as long as we can
18 last on this stuff, so --

19 Oh, one other item I skipped.
20 After the hundred case report, the selection
21 criteria -- we need to revisit the selection
22 criteria and -- and also give a report back to

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1 the full board of whether we want to keep it
2 the same, revise it in any way, so we need to
3 discuss that.

4 So those two items first thing
5 after lunch, I think, is the most appropriate
6 for that. So are there any other items that
7 we need on the agenda first of all? I'll open
8 that up to -- I think that covers it.

9 MEMBER MUNN: Mark, this is Wanda.
10 I'm -- I'm coming late to the party, but I
11 wanted you to be aware of the fact that I will
12 not be on the call at all this afternoon and
13 only briefly this morning. I have to fly
14 across the country today.

15 CHAIRMAN GRIFFON: You're flying
16 out, yes. Oh, boy. All right.

17 MEMBER MUNN: Whatever you're going
18 to do in the afternoon, I will not have an
19 opportunity to see until about 11:00 tonight.

20 CHAIRMAN GRIFFON: What -- what
21 time can you be on until this morning, Wanda,
22 just so I have a sense, because I may try to

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1 get this -- this first hundred cases moved up,
2 because I really need your input on that.

3 MEMBER MUNN: I can be on for a
4 couple of hours, Mark --

5 CHAIRMAN GRIFFON: Okay.

6 MEMBER MUNN: -- and probably --
7 shortly after -- I don't know what time you
8 anticipate taking a break, but probably
9 shortly after your first break I'm going to
10 have to leave you because I have to -- I have
11 not yet packed. I was going to do that this
12 morning because I was aware that --

13 CHAIRMAN GRIFFON: Wanda, I have to
14 say I'm a little offended that you forgot
15 about me.

16 MEMBER MUNN: The reason I forgot
17 is because I very frankly just did not put it
18 on my calendar, knowing I was going to be
19 traveling.

20 CHAIRMAN GRIFFON: I know, I know.

21 MEMBER MUNN: And I --

22 CHAIRMAN GRIFFON: And we all --

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1 we've got so much going on, too, yes.

2 MEMBER MUNN: Yes, it's just too
3 much happening.

4 CHAIRMAN GRIFFON: All right. What
5 I think I'm going to discuss this first topic,
6 the DR guidelines, and then I'm a little
7 reluctant to e-mail this version out, but for
8 the sake of discussion maybe I'll just e-mail
9 what I have from last night.

10 I -- I -- I edited this first
11 hundred case report last night, and then when
12 I was looking at it on the plane I found some
13 areas where I thought the language needed to
14 be massaged, so to speak, but for the sake of
15 moving the discussion along, maybe I'll just
16 send you the version I have and then we can
17 discuss these DR guideline thing, take a quick
18 break, and we'll get copies of that made, if
19 that's okay, Ted --

20 MR. KATZ: Yes.

21 CHAIRMAN GRIFFON: -- and we'll
22 move that up on the agenda and, hopefully, at

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1 least have some of your thoughts on that,
2 Wanda. I really, you know -- because we
3 really want to try to get this moved along in
4 the board meeting.

5 Is that okay, Wanda?

6 MEMBER MUNN: Yes, we certainly do,
7 and that's the reason I mentioned it
8 immediately because --

9 CHAIRMAN GRIFFON: Okay.

10 MEMBER MUNN: -- I have much
11 appreciation for putting together the format
12 that we had discussed at considerable length
13 and that I feel is an excellent time for us to
14 do it, if we can do it now.

15 CHAIRMAN GRIFFON: Okay, okay. And
16 just understand when you receive it that it's
17 pretty raw, so don't get offended right away.

18 MEMBER MUNN: I won't.

19 CHAIRMAN GRIFFON: Okay, all right.

20 MEMBER MUNN: Not to worry.

21 CHAIRMAN GRIFFON: Okay, just let
22 me get through this one item first of all, and

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1 this is a -- this came up -- I e-mailed Stu, I
2 believe, a couple of weeks ago --

3 MR. HINNEFELD: Yes.

4 CHAIRMAN GRIFFON: -- and it was --
5 it was just as I was doing the eleventh set
6 cases with -- Brad and I are a team, and we
7 were on the phone and looking at our cases for
8 the eleventh set, I just asked the question of
9 SC&A.

10 I don't see any DR guidelines in
11 these cases. Have you come across them yet?
12 And they basically said that not to their
13 knowledge. They don't remember seeing any in
14 the cases they've looked at, so that's when I
15 e-mailed Stu asking about these, and I thought
16 that -- that we had. I haven't really looked
17 at the transcripts and all that, but I thought
18 we had a commitment that NIOSH going forward
19 was going to include those --

20 MR. HINNEFELD: Well --

21 CHAIRMAN GRIFFON: You know, we
22 sort of debated the retrospective; it would be

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1 just too difficult --

2 MR. HINNEFELD: Yes.

3 CHAIRMAN GRIFFON: -- but going
4 forward I thought we were going to be included
5 because -- and -- and let me just say -- I
6 mean, the reason I think they're -- they're
7 fruitful is not only for SC&A and for the
8 subcommittee, you know, in terms of their
9 audit, but by extension I think that would be
10 important for the public because we can do a
11 better job with our audit, and we can do a
12 more complete, you know, review.

13 You know, it's just this -- we've
14 come across these cases where the procedures -
15 - and rightly so in some cases, they cannot be
16 prescriptive, but then you supplement some of
17 those with these guidelines that sort of
18 direct the dose reconstructor in these kind of
19 situations do this, in these kinds of
20 situations, you know --

21 So, we -- we -- I thought we had a
22 commitment that going forward those would be

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1 added, and that would help us understand
2 whether the dose reconstructor was actually
3 falling in the correct guidelines of, you know
4 -- and it doesn't seem to be happening --

5 MR. HINNEFELD: No, it's not
6 happening.

7 Well, my recollection of the
8 commitment was to find out how difficult would
9 it be for the contractor to do, and, frankly,
10 I'm still -- you know, I had to remind the
11 contractor how difficult would it be. I mean,
12 I heard about, well, it's doable. You know,
13 we could probably do that, but I don't know --
14 now, Scott, if I'm incorrect. You do a lot
15 more dose reconstructions than Jim Griffin,
16 and Jim Griffin's the one I've been talking
17 to.

18 So, I'd be really interested in
19 your thoughts on this.

20 There are some complications here
21 because I would -- now, if I say something
22 wrong just say it.

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1 MR. SIEBERT: Sure.

2 MR. HINNEFELD: Okay. I'm pretty
3 confident there are some dose reconstructions
4 that are done without referring them to
5 something like --

6 MR. SIEBERT: Most --

7 MR. HINNEFELD: Okay.

8 MR. SIEBERT: -- most are doing
9 without referring --

10 MR. HINNEFELD: -- without
11 referring to one of these supplemental
12 guidelines.

13 So being able to check on whether
14 everything is there that should be there
15 becomes a more difficult task for everybody.
16 So when you get -- in other words you get a
17 claim and there is no guide associated with
18 it, it will be difficult to decide, maybe --
19 might be difficult to decide whether it was
20 mistakenly omitted or whether there's just
21 none in use. So that's one thing that would
22 be somewhat difficult.

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1 CHAIRMAN GRIFFON: Can I ask just a
2 question there?

3 If you have a Hanford case -- like
4 I know there is some cites that you don't even
5 have guidelines for necessarily, right? But
6 if you have some of the ones that have the
7 guideline, would it be fair to assume that --
8 that those claims may always -- or will always
9 turn to --

10 MR. SIEBERT: Actually, not,
11 because the background on these were
12 originally the technical basis documents, as
13 you guys know from reviewing them, could be
14 very complicated and convoluted, to be
15 specific as to what you need to do from a dose
16 reconstruction point of view.

17 So originally we had put together
18 these to kind of get to the very specific
19 points of dose reconstruction as to what's in
20 the TBD, and then also list that if there are
21 additional things that may not have made into
22 the TBD yet that were waiting -- getting into

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1 the TBD, have that direction there, as well.

2 When we went back and looked at
3 these, and I've had my dose reconstructors,
4 the site leads, and look at them the last
5 couple of weeks. Most of what was in there
6 actually is already in the TBD, is in
7 procedure -- or OTIB 60 for internal, is in
8 the external. There's other referenceable
9 places for it. It was just put together in a
10 way that made the TBDs easier to use.

11 When we looked back at those,
12 actually a lot of them we've suspended using,
13 because once a dose -- and this is what I'm
14 saying -- once a dose reconstructor knows what
15 they're doing and knows the TBD well, they
16 don't have to refer back to these guidelines
17 because they already know what they're doing,
18 and they know where they can find it in the
19 TBD, okay?

20 So a lot of these actually are
21 being removed, because when we pulled the
22 string on all the pieces parts, they're

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1 already referenced somewhere else. So they're
2 actually getting very small. Some went away,
3 and there's some others that there are small
4 things that maybe haven't gotten into the TBD
5 yet that we have methods to cover holes.
6 Those are the only things that can be left in
7 these dose reconstruction guidelines.

8 Does that make sense?

9 CHAIRMAN GRIFFON: I mean, what I
10 saw and the few that I looked at, draft ones,
11 from a long time ago --

12 MR. SIEBERT: Yes, right.

13 CHAIRMAN GRIFFON: -- but from what
14 I saw it looked like it had more of the
15 assistance with the areas I would call like
16 professional judgment, like, you know, for in
17 this situation assume this solubility, or you
18 had some if-then logic, too.

19 MR. SIEBERT: Actually, yes, and -

20 CHAIRMAN GRIFFON: If you have this
21 then you use this.

22 MR. SIEBERT: And almost all of

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1 that -- most of that was actually internal, if
2 I remember correctly --

3 CHAIRMAN GRIFFON: Yes, a lot of it
4 was internal, yes.

5 MR. SIEBERT: -- and most of that
6 was over -- was taken over by when we put OTIB
7 60 in place. OTIB 60 has a lot of that
8 directive, decision-making process in it
9 already.

10 And that's what I'm saying. When
11 we pulled the string and looked at other
12 references, most of the direction was already
13 in other places, so we determined -- and I
14 quizzed dose reconstructors to find out if
15 they're actually referring back to them, and
16 they are not, because they already know what's
17 in them, and they're referenceable in other
18 places.

19 Does that kind of make sense?

20 CHAIRMAN GRIFFON: But -- so if you
21 had to guess now what -- how often are they
22 used, five percent of the cases, one percent?

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1 MR. SIEBERT: I -- wow, that's --

2 CHAIRMAN GRIFFON: Hard to say?

3 MR. SIEBERT: Yes, that's really
4 hard to say, but I'd say a relatively small
5 percent. I mean,

6 MR. HINNEFELD: Okay, now Scott,
7 let's have a conversation, because I am
8 sympathetic, because, you know, I don't really
9 read those reconstructions anymore, but when I
10 did it could be very daunting to kind of
11 follow the logic of why the DR, so I
12 understand --

13 MR. SIEBERT: Right.

14 MR. HINNEFELD: -- so I understand
15 -- I understand the interest in happenings.

16 For a dose reconstructor who's
17 doing a dose reconstruction, if he -- well, if
18 he refers to one of these things, then he's
19 got it handy and it would be fairly simple, I
20 guess, for him to copy it and goes like a
21 supporting documents --

22 MR. SIEBERT: Right.

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1 MR. HINNEFELD: So if you get it
2 that would be fairly simple.

3 MR. SIEBERT: Right.

4 MR. HINNEFELD: There are going to
5 be other situations which are apparently going
6 to be much more common now where the dose
7 reconstructor knows what it says and doesn't
8 look at it. I mean, it may still be there.
9 It may not be cancelled, and even if it were
10 cancelled it would potentially be in an
11 archive somewhere.

12 So to then -- if we were going to
13 include the thing -- the guide for that case,
14 you're asking this person to spend the
15 additional time to locate it, you know, pull
16 it up, copy it, which doesn't sound like a
17 lot, but can turn into a lot. It can turn
18 into cumulatively a pretty significant
19 investment, particularly when we are
20 constantly on our contractor to provide more
21 production.

22 So I'm a little -- I'm a little

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1 hesitant to just say no matter what the
2 situation, if you've got one, grab it and put
3 in there.

4 CHAIRMAN GRIFFON: Well, the other
5 -- the other -- and this was in the -- I'm not
6 sure who -- I don't think you sent this to the
7 whole subcommittee --

8 MR. HINNEFELD: No, I responded to
9 you and copied --

10 CHAIRMAN GRIFFON: -- because the
11 other part of your response to me was that,
12 you know, and this would be fine, but I feel
13 like I'm -- I feel like I just got in a time
14 machine and went back two years --

15 MR. HINNEFELD: Yes.

16 CHAIRMAN GRIFFON: -- because you
17 said that we could provide them for the cases,
18 if we have issues about a certain case that
19 we're reviewing, then you may be able to --

20 MR. HINNEFELD: Did I say that?

21 CHAIRMAN GRIFFON: Yes, I thought
22 you did, yes.

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1 MR. SIEBERT: That surprises me. I
2 don't believe we kept those historically.

3 CHAIRMAN GRIFFON: And I thought
4 that was the original problem was that you
5 couldn't do those historically.

6 MR. HINNEFELD: Yes, I don't think
7 they're kept historically.

8 MR. SIEBERT: They're not.

9 CHAIRMAN GRIFFON: Because I was
10 confused when I saw that in your response.

11 MR. SIEBERT: They're not
12 controlled documents under the project --

13 CHAIRMAN GRIFFON: So you wouldn't
14 have dated versions and stuff like that.
15 Right, right.

16 MR. SIEBERT: Exactly.

17 CHAIRMAN GRIFFON: Because if that,
18 you know, if that were available then we
19 wouldn't be here right now.

20 MR. SIEBERT: Right, you could
21 always reference --

22 CHAIRMAN GRIFFON: Just pull the

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1 ones we needed and then SC&A could, you know -
2 -

3 MR. HINNEFELD: Right.

4 CHAIRMAN GRIFFON: So then even --
5 I agree with you, Stu, if they're not -- if
6 they're so familiar with them that they're not
7 really referencing them or they're in some --
8 referenced in some other way --

9 MR. HINNEFELD: Right.

10 CHAIRMAN GRIFFON: -- or they could
11 be part of the workbooks now or whatever.
12 They don't use them, you know, but it would
13 certainly be helpful from the audit standpoint
14 if we have, you know --

15 And I'm not sure how much of a
16 burden it would be going forward to add a
17 file. I know it's many cases, but --

18 MR. HINNEFELD: Well, if they pull
19 it open and it's open, I mean, they're using
20 it. That's clearly that could be done.

21 CHAIRMAN GRIFFON: Yes.

22 MR. HINNEFELD: You know, I mean, I

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1 can send that direction here at the break to
2 ORAU, and it will take them a while to
3 implement it, but it will be done.

4 CHAIRMAN GRIFFON: Yes.

5 MR. HINNEFELD: Apparently, that
6 will catch very few of these dose
7 reconstructions.

8 CHAIRMAN GRIFFON: Yes.

9 MR. HINNEFELD: I'm interested
10 about the things that are being retired, since
11 you say you don't keep them historically.
12 Could you keep them for a while?

13 MR. SIEBERT: Yes, we can. If we
14 can track them all down. We didn't -- see,
15 the site experts were basically in charge of
16 keeping those up to date --

17 MR. HINNEFELD: Okay.

18 MR. SIEBERT: -- and they were
19 basically writing over them as they went over
20 them.

21 MR. HINNEFELD: So, I mean, by a
22 version --

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1 CHAIRMAN GRIFFON: I'm amazed that
2 in this day and age that we didn't keep revs
3 of things, but --

4 MR. SIEBERT: Well, once again,
5 they weren't referenceable, controlled
6 documents, and it was -- it was much easier to
7 do that for small issues that haven't gotten
8 into TBD yet, and then once it got in the TBD
9 you can remove it and things like that, rather
10 than going through the whole controlled
11 document process, which does take a while.

12 DR. MAURO: From a practical
13 standpoint, from SC&A's side, when I budget, I
14 make certain assumptions, and this -- one of
15 my concerns is that do we run into
16 circumstances where all of a sudden we're
17 spending days trying to figure out what was
18 done, because I know in my experience once I
19 figure out what was done, it's done. Because
20 then I'd know whether or not there are
21 problems or not.

22 The hard part is figuring out what

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1 was done, and in my mind it shouldn't be that
2 hard to figure out. You should be able to
3 read the document, then do our calculations
4 and match your numbers. Okay, I know what
5 you've done.

6 But I find myself caught up -- now,
7 I guess I have a question to the work group.
8 I know that we don't do this, but would there
9 be a problem with our auditor calling up the
10 originator and saying listen I don't
11 understand what you did here. And it may --
12 you know, just so that we could get through
13 this thing.

14 If it's very much a living process
15 the way you describe it -- not always, but in
16 some cases it's not trackable, simple as that.

17 CHAIRMAN GRIFFON: That's -- that's
18 deja vu to me, too --

19 MR. HINNEFELD: Right, I did say
20 that --

21 DR. MAURO: No, we probably had
22 this conversation. No, we haven't done that.

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1 We haven't done that because we're auditors,
2 and I think that we're probably not supposed
3 to do that.

4 CHAIRMAN GRIFFON: Yes.

5 MEMBER MUNN: John, can you get a
6 little closer to the mike?

7 DR. MAURO: Sure.

8 CHAIRMAN GRIFFON: Also, I think
9 that NIOSH had some concern about you going
10 directly to all staff --

11 DR. MAURO: Okay, is this one of
12 these? Okay, Wanda, could you hear me a
13 little better now?

14 MEMBER MUNN: Oh, thank you, that's
15 so much better.

16 DR. MAURO: All I did, I probably
17 brought this up two years ago, but what I was
18 saying is that sometimes it takes us a long
19 time during our audits to figure out what was
20 done, because before we could say anything
21 constructive or whatever, we have to basically
22 reproduce their numbers and say, okay, I see

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1 what they did.

2 MEMBER MUNN: Yes, yes, I recall
3 that discussion.

4 DR. MAURO: Right, and I know that
5 it sounds like that institutionally, to be
6 able to put down the complete paper trail,
7 either in the DR or reference of documents,
8 and it sounds like it's not always there,
9 because there are times when something may
10 have been retired and a person may have used a
11 technique and that doesn't even exist anymore,
12 the method that was used and the assumptions
13 that were used in 2005.

14 The question I have in order to
15 make life easier for us, if we could call the
16 author in 10 minutes we might be able to
17 straighten this out, rather than spending a
18 day or two trying to figure it out, and
19 perhaps never figuring it out, and coming out
20 with a comment that says we can't figure it
21 out.

22 You know, that's not very helpful.

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1 Now the only problem is -- is -- does that
2 break the barrier that you're looking to hold
3 between the auditor and the authors. In my
4 mind, it would certainly help me to get my
5 costs down by being able to make that phone
6 call, but I'd have to take guidance from the -
7 - from the work group.

8 MR. HINNEFELD: Well, and I would
9 also want to talk to Larry. Personally, I
10 don't see a particular problem, personally.

11 If we want to call this an audit,
12 which we kind of resist, but if this is an
13 audit in every audit I've ever had when I was
14 in a different job I spoke to the auditor.
15 You know, they come and there's a meeting and
16 there's conversation, and the auditor attempts
17 to obtain the best understanding -- well, you
18 would like for the auditor to have the best
19 understanding of what's being done.

20 So before I commit to that -- see,
21 we have what -- over a hundred probably, maybe
22 not quite that many anymore -- not anymore.

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1 We have a lot of people who do dose
2 reconstructions all over the place. Of
3 course, we can just tell you where they are so
4 you know what time zone to call in, but I'm
5 not sure about their phone availability. And
6 if you called them about a claim, they did
7 that claim maybe long ago --

8 CHAIRMAN GRIFFON: A long time ago.

9 MR. HINNEFELD: -- maybe long ago.

10 CHAIRMAN GRIFFON: Yes.

11 MR. HINNEFELD: So the phone call
12 in getting some immediacy may not work. A
13 question and answer process -- but, of course,
14 that's going to build into the delay because
15 you're going to have to, you know, if we'll
16 have a point of contact for the questions --
17 it might be a contractor point of contact. It
18 doesn't necessarily have to be a federal point
19 of contact.

20 You know, somebody that, you know,
21 this is the DRist on this and here's my
22 question, that kind of stuff -- or can they

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1 call and we could eventually have a phone
2 call, but then the DRist would, you know, get
3 that quickly and they would have to refresh
4 their memory with that specific dose
5 reconstruction.

6 And at that point then you could
7 have a useful conversation at a point when you
8 could both have a conversation. So then your
9 auditor has to -- you know, you have to
10 schedule a conversation so you can both have
11 the case fresh in your mind, rather than just
12 call anybody out of the blue.

13 I mean, there's a process there
14 that probably I think that could work. And
15 like I said it's not -- this is not ORAU
16 policy saying it could work -- or OCAS policy
17 saying this, because I really kind of need to
18 get some feedback back in the office on it.

19 DR. MAURO: But remember what
20 happens. Then it happens on the back end of
21 the process. One way or the other that's
22 going to happen.

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1 CHAIRMAN GRIFFON: Yes, yes.

2 MR. HINNEFELD: You're right, after
3 it's written down then it's going to happen.

4 MEMBER CLAWSON: We're getting into
5 this. You talk about deja vu because coming
6 back to this part of the issue we got into was
7 you could not reconstruct what they did, and
8 what I've heard so many times coming back into
9 this is we don't know what they use.

10 So then we bring it up, and, oh,
11 they use this process to be able to do it.
12 Okay, so we'll go back and use that one. No,
13 that one no longer exists. That has been
14 moved to this one, and now -- actually, that
15 one doesn't even -- we've moved to this one,
16 and this is our issue is we're -- we're
17 shooting all over the place, and for an
18 auditor to be able to come in and perform
19 this, we have -- we have no idea what was
20 used.

21 And so it comes back with the
22 comments that they do with it. We can't

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1 figure it, you know -- what -- how did they
2 use this or what did they use. And as you've
3 said there's many different revs that have
4 come down through the line or is now they've
5 been moved over to 60 or 66, something like
6 that.

7 I think we're right back to where
8 we were at several years -- and one of the
9 things is that we've got to be able to figure
10 out how we can take and reconstruct this for
11 them somehow, and they've got to know the
12 guidelines that were used, bottom line.
13 Because somehow they've got to know how did
14 they reach this and why -- this has got to be
15 referenced somehow.

16 DR. MAURO: As sort of stepping out
17 the picture and just thinking about the
18 process we're in, I think there's two levels
19 of concern. One as auditor, we'd like to be
20 able to efficiently move through the process.

21 In the end, that one percent -- right now
22 we're doing about one percent of the cases,

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1 you know -- so that one percent eventually we
2 get to, and we all sit around the table.
3 We'll have an issue. We can't figure this
4 out, and it triggers the process.

5 You bring people in, you work on
6 it, you call in your people, and eventually we
7 figure out what was going on. So that time is
8 going to be spent. Either it's going to be
9 spent in the beginning, or it's going to be
10 spent in the end. That's one level, and
11 that's not that important. I'll tell you why
12 I say that.

13 I think what's more important is I
14 think there's an obligation is to have a
15 tractable dose that is transparent to any
16 experience health physicist that is interested
17 --

18 CHAIRMAN GRIFFON: Yes.

19 DR. MAURO: -- not just the
20 auditors -- not just the auditors, but you've
21 got a document that basically a fundamental
22 decision document on, you know, compensation

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1 versus not, and if there's not sufficient
2 weight to how you got there, I think that's a
3 problem. I think that's a quality assurance
4 problem.

5 CHAIRMAN GRIFFON: Yes.

6 DR. MAURO: So I would say that I'm
7 -- in the grand scheme of things that's really
8 where the essence of the problem is. You have
9 to have a paper trail that is bullet proof.
10 Whether the number's right or wrong, good or
11 bad, bad assumptions, good assumptions,
12 terrific assumptions, that's really not the
13 issue.

14 The issue is it has to be there so
15 someone can go back and say, yes --

16 CHAIRMAN GRIFFON: That's kind of
17 what I'm getting at --

18 DR. MAURO: Yes.

19 CHAIRMAN GRIFFON: -- is the show
20 your work notion --

21 DR. MAURO: Show your work,
22 essentially.

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1 CHAIRMAN GRIFFON: -- show your
2 work, and in 10 years, 15 years someone should
3 be able to go back to that case file and say,
4 okay, I see exactly what they did, you know.

5 MR. HINNEFELD: I think there's a
6 lot of merit to that point.

7 MR. FARVER: Now, some of the dose
8 reconstructions you have different versions
9 to. I'm looking at the one from Los Alamos,
10 and it's got -- the first page is a revision
11 summary. It's got the dates --

12 CHAIRMAN GRIFFON: This is the DR
13 guidelines?

14 MR. FARVER: Yes.

15 MR. HINNEFELD: Is this a dose
16 reconstruction?

17 MR. FARVER: This is a DR guideline
18 for LANL.

19 MR. HINNEFELD: Okay.

20 MR. FARVER: And it gives the
21 description of the changes, and that goes on
22 for a page or so, and then it starts into the

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1 guideline. So I guess some of them are --
2 describe the versions and what changes were
3 made.

4 CHAIRMAN GRIFFON: But I think
5 Scott's right, they weren't controlled
6 documents so it wasn't --

7 MR. FARVER: Right.

8 CHAIRMAN GRIFFON: -- consistently
9 kept or whatever.

10 MR. FARVER: No.

11 CHAIRMAN GRIFFON: Yes, yes.

12 MR. SIEBERT: It would depend on
13 who was keeping them.

14 CHAIRMAN GRIFFON: Right, right.

15 MR. FARVER: Right.

16 CHAIRMAN GRIFFON: Yes.

17 MEMBER CLAWSON: But I agree with
18 John though. We've still got to be able to
19 look at this as a paper trail, you know.

20 CHAIRMAN GRIFFON: Well, I mean, I
21 think going forward, if -- if they're used, I
22 guess the question is we can't expect that

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1 they'll be in every case, but we should expect
2 to see some of them, you know, and if they're
3 used they should be included in the file, is
4 my opinion.

5 And I actually thought going
6 forward that we had a -- you may be right,
7 Stu. It wasn't a strong commitment.

8 MR. HINNEFELD: I don't remember --

9 CHAIRMAN GRIFFON: Yes.

10 MR. HINNEFELD: -- I really don't
11 remember.

12 CHAIRMAN GRIFFON: Because I do
13 remember specifically NIOSH pushing back on me
14 on the question of going back. That's why
15 your e-mail confused me a little bit.

16 MR. HINNEFELD: Yes, yes, I don't
17 know why --

18 CHAIRMAN GRIFFON: I thought you
19 couldn't do that.

20 MR. HINNEFELD: Yes.

21 CHAIRMAN GRIFFON: So, you know,
22 excepting that you can't really go back

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1 because they're not archived, at least going
2 forward I think we should, you know, commit to
3 -- if they're using the guidelines --

4 I mean, I would even go further
5 than that. I think that, and others can weigh
6 in on this, but I think if the guideline --
7 if there are dose reconstruction guidelines
8 for a given site at the time when they're
9 doing a dose reconstruction, it should be
10 included in the file, because --

11 MR. HINNEFELD: You know, it could
12 be that.

13 CHAIRMAN GRIFFON: -- because --
14 because from our audit standpoint, you know,
15 they may be very familiar with these changes
16 and everything, but the auditors not, and for
17 that archived record I think it's very
18 important that it's there and it spells out
19 exactly how they were approaching it at that
20 time -- at that, you know, point in time.

21 MR. HINNEFELD: I mean, that could
22 be a matter that could be automatic --

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1 CHAIRMAN GRIFFON: Yes.

2 MR. HINNEFELD: -- whether you look
3 or not. I mean, that actually -- if there's -
4 - if you've got -- if you're working on, you
5 know, you have a site leads. You know, Scott
6 referred to site leads --

7 CHAIRMAN GRIFFON: Yes.

8 MR. HINNEFELD: -- which were
9 senior dose reconstructors, you kind of are
10 the expert on, you know, Paducah, for
11 instance, just to make one up.

12 And so maybe just as a -- and then
13 so you have dose reconstructors who are -- who
14 do Paducah cases and they do a handful of
15 sites.

16 So just as a matter of course, know
17 if I'm doing a Paducah case I'm going to pull
18 out if there's a Paducah guideline, I'm going
19 to put it in there, whether I use it or not --
20 whether it's even relevant to the case or not.

21 CHAIRMAN GRIFFON: Right.

22 MR. HINNEFELD: I mean, that is

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1 actually an easier thing to do.

2 CHAIRMAN GRIFFON: Yes.

3 MR. HINNEFELD: It's just grab it
4 and put it in.

5 CHAIRMAN GRIFFON: That's what I
6 thought I was asking for last time, and I
7 thought --

8 MR. HINNEFELD: Well, you might
9 have --

10 CHAIRMAN GRIFFON: Yes.

11 MR. HINNEFELD: -- I don't know.

12 CHAIRMAN GRIFFON: Anyway, I'd -- I
13 would --

14 MR. HINNEFELD: I will -- I will
15 pursue that with contractor, and I'll say I
16 would like you to do this unless this is going
17 to be really hard. Tell me why it's going to
18 be really hard.

19 CHAIRMAN GRIFFON: Okay. Can we
20 get a firm answer, up or down, in the May
21 meeting?

22 MR. HINNEFELD: I should think I

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1 would be able to e-mail it to you before May.

2 CHAIRMAN GRIFFON: Okay.

3 MR. HINNEFELD: Yes.

4 CHAIRMAN GRIFFON: All right,
5 because I want to be able to report back on
6 that at the meeting.

7 MR. HINNEFELD: Okay.

8 CHAIRMAN GRIFFON: All right. I
9 guess we'll --

10 MR. HINNEFELD: Yes, I apologize,
11 but I didn't get this resolved earlier and we
12 had different understanding where we were on
13 it. I'm really sorry about that.

14 CHAIRMAN GRIFFON: We'll -- we'll
15 leave it at that, and I think, Wanda, we'll
16 take like an early break now. I know we're
17 not really ready for a break, but I need about
18 10 minutes -- maybe 10 or 15 minutes. We've
19 got to get copies of this report, and we'll e-
20 mail you a version of the report and this
21 first hundred cases report.

22 MEMBER MUNN: Thank you. I really

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1 appreciate that, Mark.

2 CHAIRMAN GRIFFON: Yes, we'll move
3 that up on the agenda, because I really want
4 to -- I think we need your comments on this,
5 so we'll get that out in a few minutes.

6 MEMBER MUNN: I'll go get a bowl of
7 Wheaties. Thank you.

8 MR. KATZ: Have we gained John
9 Poston or Bob Presley?

10 CHAIRMAN GRIFFON: All right, can
11 we --

12 MR. KATZ: Yes, I'm going to put
13 the line on mute for 10 minutes.

14 MEMBER MUNN: Very good, thank you.

15 MR. KATZ: Thanks.

16 MEMBER MUNN: Bye, bye.

17 (Whereupon, the above-entitled matter went off
18 the record at 10:07 a.m., and
19 resumed at 10:28 a.m.)

20 MR. KATZ: Wanda and Mike and all,
21 we're back on line.

22 MEMBER MUNN: Hi.

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1 MR. KATZ: Are you about ready?
2 Have you gotten through the -- skimming it, at
3 least?

4 CHAIRMAN GRIFFON: Yes, it's really
5 -- Wanda and Mike, it's really that first page
6 that -- really that first page that was
7 changed. That should be the focus, I think,
8 unless we decide that we don't want, you know,
9 have the whole -- I mean, the body of the
10 report we reviewed before, and sort of -- that
11 was what we brought to the board previously.

12 MEMBER MUNN: Yes, we've seen this
13 -- the material --

14 CHAIRMAN GRIFFON: Yes, yes.

15 MEMBER MUNN: -- the first part
16 that is of interest.

17 CHAIRMAN GRIFFON: Right, yes.

18 MEMBER MUNN: And I have a severe
19 problem reading material like this, simply
20 because my -- my overwhelming desire to
21 wordsmith things.

22 CHAIRMAN GRIFFON: I know. Well,

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1 that was my severe concern about e-mailing it
2 this way, but you know --

3 MEMBER MUNN: Right, thank you.

4 CHAIRMAN GRIFFON: It's very rough,
5 and if we can just sort of talk -- I guess the
6 major points made instead of -- and we can
7 wordsmith later, or maybe you can send me
8 wordsmith stuff --

9 MEMBER MUNN: Yes, I think that's -
10 -

11 CHAIRMAN GRIFFON: -- yes, because
12 I know it's rough on the wordsmith side.
13 Believe me, I was fading off at about 10
14 finishing this last night, so I had to get up
15 for my 3:45 alarm, too.

16 MEMBER MUNN: It's not fun.

17 CHAIRMAN GRIFFON: Anyway, so, you
18 know, what I tried to do was to more or less
19 condense some of this down, but also be
20 attentive to, you know, what came out of these
21 first 100 cases, you know, and so the
22 introductory part sort of mirrors the -- the

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1 actual Section I where you have the case
2 review methodology.

3 I mean, I had to give some context
4 to the front end, and then I just tried to
5 outline the primary findings. In the last
6 paragraph I note that these are, you know,
7 more detailed in the full body of the report.

8 But then I -- I mean, I tried to
9 also indicate that in the last paragraph at
10 the bottom of the first page anyway that --
11 and I believe this to be true that, you know,
12 some -- some results of this include, you
13 know, modifications, and maybe we want to say
14 in part. I don't think it's totally because
15 of the audit, but in part this audit resulted
16 in the DR --

17 MEMBER MUNN: Had an impact in our
18 final report.

19 CHAIRMAN GRIFFON: Yes, has
20 impacted or -- so the wordsmithing we can --

21 MEMBER MUNN: Yes, right.

22 CHAIRMAN GRIFFON: -- we can fool

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1 around with, but has impacted the DR final
2 report, the modification of the phone
3 interview and questionnaire, and revision of
4 several -- and I didn't get into all the
5 specific procedures, but I think TIB eight and
6 10 come to mind, you know, some of the early
7 TIBs that came up on a number of findings, I
8 think, you know, so we -- we had some impact
9 in that way.

10 MEMBER MUNN: But then what is most
11 preferable in an administrative summary of
12 this type is not that type of detail anyhow.

13 CHAIRMAN GRIFFON: Right, right.
14 I guess what I saw a note in -- I think it was
15 one of Paul's comments during the board
16 meeting was part of this -- you should have,
17 you know, sort of implications but also where
18 from here, and I wasn't sure -- I don't think
19 I bridged that gap like sort of where from
20 here, you know, other than to say that my last
21 paragraph I was trying to get in that last
22 paragraph that we -- and I was going to say

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1 although often tedious, but we think the
2 process is effective. I mean, that this
3 resolution process it takes -- it does take
4 time, but it has, in my opinion anyway, been
5 effective to have the board with the
6 contractor at the table and just hammer these
7 things out.

8 MEMBER MUNN: Well, it takes time,
9 and it is difficult, yes.

10 CHAIRMAN GRIFFON: Yes, right,
11 right, right.

12 And it has been effective, but not
13 only, you know, sort of to what end. Well, to
14 what end is some of those things that we have
15 impacted and have been revised and overall
16 made improvements in the program that way, I
17 think.

18 MEMBER MUNN: Well, this -- this
19 level of detail in reviewing selective cases
20 is difficult and time-consuming, but I think
21 the sense of what you're saying in the last
22 paragraph is correct.

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1 CHAIRMAN GRIFFON: I mean, the
2 other -- the other, you know -- I guess the
3 open question is, you know, am I missing the
4 mark on some things. Do you want to add some
5 things in?

6 We could -- we could certainly have
7 friendly amendments offered when we bring this
8 to the board, like if you decide, Wanda, that
9 there is a better last paragraph, and
10 certainly any wordsmithing I would see as
11 friendly amendments, you know, because it
12 needs -- it definitely needs some of that.

13 But is there any big points that
14 you think should have been included --

15 MEMBER MUNN: Well, you know the
16 discussion we were having just before you
17 broke to send this material out has a direct
18 bearing on what we're saying here.

19 CHAIRMAN GRIFFON: Yes, and that's
20 number two in my thing, yes, yes.

21 MEMBER MUNN: Yes, yes, and that's
22 what I'm looking at and -- and thinking how

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1 much is reasonable and how much is really
2 necessary for truly adequate audits. And
3 unless you resolve that without my brain
4 assimilating it we still haven't reached that
5 point.

6 CHAIRMAN GRIFFON: Yes, I'm not
7 sure we've gotten to the how much, but I think
8 we did -- at least my opinion is that in the
9 first 100 cases we -- and especially in the --
10 if I'm not wrong I think it was the fifth set,
11 where we got into some of those best estimate
12 cases where we really -- at least I was
13 saying, geez, it would be nice to have those
14 guidelines in these cases, because I think
15 there were a number of Savannah River one and
16 a couple of Hanford ones where -- and this was
17 early enough on, maybe, that the TBDs weren't
18 completed, or TIB 60 wasn't out there, or
19 whatever, and we were trying to read in
20 between the lines of what assumptions the DR -
21 - the dose reconstructor made at the time, and
22 that became very difficult from an audit

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1 standpoint. It wasn't a good trail there for
2 us to latch onto.

3 But I think in this report I left -
4 - I guess my purpose there was, you know, no,
5 I'm not going to get real specific because I
6 don't think even at this point, you know,
7 we're at a point where we can be real
8 specific. I think we still have to resolve
9 some of that on, you know, on what can be
10 expected and what -- I think the notion that I
11 want to be out there was that -- that showing
12 more of that work and the, you know, those
13 guidelines that got them there would have made
14 it -- would have greatly improved the audit
15 process from our standpoint.

16 MR. HINNEFELD: I think the method
17 -- and this really isn't my issue. It's not
18 my product, but I think the message might be
19 more as, kind of like John phrased it, the
20 record should have a clear path, to use that
21 language --

22 CHAIRMAN GRIFFON: Yes.

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1 MR. HINNEFELD: You know, the dose
2 reconstruction file should leave, you know --
3 it should be unambiguous about what was done
4 to arrive at this decision, and to the extent
5 that you could put some of these details in as
6 examples might capture the flavor because
7 that's certainly is going to ring true with
8 everyone -- you know, everybody who reads,
9 write and associates with this program will
10 agree --

11 CHAIRMAN GRIFFON: Right.

12 MR. HINNEFELD: -- it should be an
13 unambiguous description of how you arrived at
14 the decision. And so I think maybe something
15 like that -- and it solves the dilemma of is
16 it really going to be worth it? Is it going
17 to work? Is it going to do this? Is it going
18 to take that form or this form?

19 I think that might be option --

20 CHAIRMAN GRIFFON: I just wrote
21 down that phrase because I like that.

22 MR. HINNEFELD: I will stop my

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1 wordsmithing at this point, I promise.

2 DR. MAURO: I mean, that's the
3 essence of what we're talking about. The key
4 word is transparency.

5 CHAIRMAN GRIFFON: Yes, yes. I'll
6 consider modifying number two for that. And
7 back to what John said earlier, if you notice
8 the last part of number two. That's sort of
9 what I was getting at, that archival record.

10 DR. MAURO: Yes.

11 CHAIRMAN GRIFFON: So in addition
12 to an auditable -- yes, but that -- I like
13 that phraseology. Oh, sorry. I'm so
14 conscious about being close to the mikes, you
15 know. Anyway -- okay.

16 MEMBER MUNN: From the word
17 unambiguous is certainly to the point.

18 CHAIRMAN GRIFFON: I like -- I
19 definitely thank you, Stu. I'll try to revise
20 Number Two to include something to that
21 effect.

22 Any other thoughts on that, Mike or

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1 Wanda? Mike, I haven't heard you weigh in on
2 this.

3 MEMBER GIBSON: No, it sounds good,
4 Mark.

5 MEMBER MUNN: My only thought is
6 we're -- just trying to assimilate this for
7 the first time is one that I've mentioned
8 before, and that has to do more with the
9 overall tenor of the statement than anything
10 else.

11 It would be beneficial to consider
12 the impact of relatively negative sounding
13 statements that we send out to people, unless
14 it is the feeling of the entire board that
15 this is a negative process.

16 My personal opinion is that this is
17 a positive process, and that as a result of
18 what we're doing and the audits that have been
19 done, we are improving and -- not only
20 improving but also doing a better job of -- of
21 fully capturing the actions of those
22 reconstructions for, as you've already said

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1 Mark, archival processes.

2 CHAIRMAN GRIFFON: I'm sorry. I
3 was going to say when I was re-reading on the
4 plane, that's part of what I was -- I was
5 considering how is Wanda going to read this,
6 you know. So, I will be open to some
7 suggestions on tone, you know.

8 But on the other hand, you know, I
9 feel pretty strongly about the five points
10 that I wasn't going to --

11 MEMBER MUNN: Well, the content
12 looks good to me.

13 CHAIRMAN GRIFFON: I wasn't going
14 to try to sugarcoat things --

15 MEMBER MUNN: No, no.

16 CHAIRMAN GRIFFON: -- but I agree
17 with you -- but we also want to say it like it
18 is that I think NIOSH has been very -- you
19 know, we've made some -- you know, here's the
20 impact, and we -- it's an improving -- you
21 know, there have been definitely some
22 improvements, and so it's not meant to be a

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1 totally negative report, but I also wasn't
2 going to sugarcoat those findings. That's
3 sort of how I was thinking about it.

4 MEMBER MUNN: Well, one of the
5 other aspects that we've not discussed and
6 doesn't jump out at one when you read it here
7 is the internal processes, in my view, have
8 improved significantly over the years.

9 The interactions of all of the
10 organizations and individuals that are
11 involved have been clarified significantly
12 from the time we first started this, and that
13 may be a point worth considering of whether it
14 is added specifically to this or not, or
15 whether it simply a thought that may be
16 included a bit -- amplified just a little bit
17 in that last paragraph.

18 CHAIRMAN GRIFFON: Can you tell me
19 -- just give me an example, internal
20 processes. I mean, I don't disagree with you,
21 but I'm trying to understand what you mean by
22 that, internal processes.

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1 MEMBER MUNN: Well, I think
2 everyone involved has a better concept of who
3 does which segment of the work that's involved
4 in these dose reconstructions, and it's not a
5 simple and straightforward -- it didn't start
6 out being a straightforward, simple process,
7 and it's developed through the years, partly
8 as a result of what has been done in group
9 meetings like these.

10 And as I said, it's covered in
11 concept --

12 CHAIRMAN GRIFFON: Yes.

13 MEMBER MUNN: -- in the last
14 paragraph. We just simply didn't point it out
15 anywhere else, but that will probably work
16 itself out as you wordsmith it a little bit.

17 CHAIRMAN GRIFFON: Well, my hope
18 today is that we can maybe vote on this
19 internal draft as a subcommittee, and then
20 when we bring it to the board, Wanda, I would
21 certainly take -- if you have some language
22 there that you want to add on to the last

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1 paragraph, you know, friendly amendments, we
2 can do it that way, if you want.

3 My hope is to get the report before
4 the board next time, so logistically I hate to
5 hold it up again here, because then we won't
6 get to it until --

7 MEMBER MUNN: No, let's don't.
8 Let's don't. Your goal is to --

9 CHAIRMAN GRIFFON: I don't disagree
10 with what you just said, and if you have some
11 language that you want to sort of add into
12 that last paragraph or wherever it might fit
13 related to that statement, I think we can add
14 that on.

15 MEMBER MUNN: Are you going to try
16 to come to some conclusion about anything more
17 than the general sense of what we have here
18 yet today? Are you trying to get an almost
19 finalized copy today?

20 CHAIRMAN GRIFFON: Yes, my hope was
21 to get a finalized copy, but, you know, I know
22 there's wordsmithing to be done, so --

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1 Make a suggestion, Ted?

2 MR. KATZ: I just have a suggestion
3 which I raised the last time the subcommittee
4 met and it was in response to, I think, how
5 Paul and some of the people that are not
6 involved in this process responded when Mark
7 gave his update at the Albuquerque meeting.

8 And that's -- again, sort of
9 sitting in the chair which I don't fit in, the
10 Secretary of HHS, and coming to this report,
11 these are all sort of close, narrow technical
12 matters that are being brought to the
13 attention of the Secretary, and I don't think
14 he will -- I think that's fine. I think
15 they're simply stated and so on, but what's
16 not addressed in this report to the Secretary,
17 given the amount of time now that's been --
18 everybody's gone at this is sort of the
19 thousand-foot picture. What is the board
20 finding in general about at this point in time
21 about the quality and validity of Dose
22 reconstructions.

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1 Stu sent out to all of you in
2 response to the last subcommittee meeting a
3 breakout that shows, you know, how many of
4 different kinds of dose reconstructions have
5 been done to date.

6 And I think it was a very
7 illuminating breakout actually, and that -- I
8 mean, that gives you a context where you could
9 speak to -- well, you know, for 70 percent, 60
10 percent, 30 percent, 10 percent -- you know,
11 this is generally what the board is seeing at
12 this point in time in terms of, you know, are
13 people getting claimant favorable results from
14 their Dose reconstructions, what have you.
15 I'm not going to put any words into the
16 subcommittee's --

17 But those sort of general -- I
18 mean, that's really -- that's the bottom line
19 charge for the auditing is so that the
20 Secretary can know, you know, how long was
21 this being done at this point in time, and
22 where does it have to go from here.

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1 And I think that you've given a
2 little bit about where to go from here in a
3 process sense, and you've given, I think, some
4 nice, positive information about how the
5 process is working in improving the Dose
6 Reconstruction Program, but not really
7 answering the question of how does it stand
8 right now.

9 I think that's -- if I were the
10 Secretary I'd want to know something about
11 that at this point.

12 CHAIRMAN GRIFFON: And another
13 problem with that is that these 100 cases were
14 done over two years ago now, right? So we're
15 kind of looking at a snapshot two years ago,
16 you know.

17 MR. KATZ: But I think you can also
18 speak to even though you haven't completed
19 everything in the current cases. I mean, you
20 have a general sense of how things are now,
21 and you probably could speak to it without
22 having final results about everything that's

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1 still in process too, I believe --

2 CHAIRMAN GRIFFON: Right.

3 MR. KATZ: -- as to how things are
4 looking in a tentative sense at this point in
5 time.

6 CHAIRMAN GRIFFON: Right.

7 MR. KATZ: It's the board's
8 decision as to how to report, but, again, as
9 the Secretary I think I'd want to know
10 something about the bottom line as it stands
11 right now.

12 MEMBER MUNN: Well, and again I
13 have not gotten through to the end of the
14 document here and can't remember what we said
15 we were going to include as enclosures. It
16 would seem that a roundup of what has been
17 done and what the results were would be fairly
18 key here, and probably should be a part of --
19 at least referenced in the executive summary
20 here.

21 CHAIRMAN GRIFFON: I didn't send
22 the attachments. There are those attachments

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1 that Kathy Behling primarily put together
2 summarizing the cases.

3 MEMBER MUNN: Right, right.

4 CHAIRMAN GRIFFON: But, I mean,
5 this question of the overall quality and
6 validity of the Dose reconstructions, I mean,
7 I did avoid that. Again, you're right. I
8 think you're right, Paul did bring that up,
9 you know, the bottom line question of -- and I
10 think part of it is that -- and some of it, I
11 think, is hinted at in the five things, but
12 not absolutely pulled out, but we -- you know,
13 I mean, this gets down to the question of do
14 we want to try to give a grade, you know,
15 after a hundred cases are reviewed we feel
16 that, you know --

17 MR. KATZ: It could be very
18 qualitative. You don't have to give a grade.

19 CHAIRMAN GRIFFON: -- or how -- I
20 mean, how do we want to -- I guess I'm open
21 for suggestions to how we want to say that.
22 You know, my feeling is that, you know, if you

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1 want to get down to right and wrong, I don't
2 think we want to go there, how many they got
3 right and wrong.

4 There were -- I'm pretty sure no
5 one would dispute that there were several
6 cases that they got the wrong result on in
7 this first 100 cases, although all those that
8 everybody would agree on anyway were in the
9 claimant-favorable direction. I mean, these
10 were those overestimates for compensable
11 claims, so those, you know, they got wrong.
12 So that's, you know, if you want to get down
13 to a just -- you know.

14 And then there's the -- my take on
15 the other side of it is that we have five best
16 estimate cases, and that's where we got into
17 this fuzzy ground. That's why I wrote it down
18 as a finding this way, instead of -- so maybe
19 we can get at this qualitatively, but I don't
20 think we want to get into a sort of they got
21 85 percent, they got 95 percent, you know.

22 MR. KATZ: If you have a large -- I

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1 mean, you can give contacts. They have a
2 large quantity of claims for which they have
3 overestimated or underestimated to expedite
4 those, and how well has that worked. Has that
5 gotten people compensated quickly, without
6 error, and vice versa?

7 I mean, I think you can speak to
8 that whole pie chart in effect, piece by
9 piece. I mean, that pie chart was broken out
10 into finer gradations than you would probably
11 want to speak to because, you know, whether
12 it's, you know, whether it's an overestimate
13 based on internal or external or both doesn't
14 so much matter, but just sort of a sense of
15 when NIOSH is overestimating, how are they
16 doing when they're underestimating to get
17 people compensated quickly? How are they
18 doing and so on, I'm going to --

19 CHAIRMAN GRIFFON: Yes.

20 MR. KATZ: You could speak to it,
21 you know. You could speak to those. And I
22 think some of that wouldn't necessarily be

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1 controversial within the board, but I could be
2 wrong about that.

3 CHAIRMAN GRIFFON: Stu, again,
4 Number 4 does sort of get there.

5 MR. KATZ: But that's a few cases -
6 -

7 CHAIRMAN GRIFFON: Not as bold as
8 you -- right.

9 MR. KATZ: -- that's a few cases as
10 opposed to, you know, 40 percent of the cases
11 where they overestimated properly or whatever
12 it is, but, I mean, you have the pie chart. I
13 mean --

14 CHAIRMAN GRIFFON: Right, right.

15 MR. KATZ: You're talking about
16 tens of thousands -- you know, tens of
17 thousands. You're talking about thousands of
18 cases in these different categories.

19 CHAIRMAN GRIFFON: Yes.

20 MEMBER MUNN: And the chart is
21 ultimately going to be what people will
22 remember other than the words.

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1 CHAIRMAN GRIFFON: And I'm not --
2 but I'm not sure --

3 MR. KATZ: I'm not suggesting --

4 CHAIRMAN GRIFFON: And you're
5 getting a little more complicated how you, you
6 know, if we can say, okay, you know, I don't
7 know how many. I don't know the right number
8 for this, but say the overestimate, I think it
9 was four. I'm not sure on that. Four that
10 were overestimated that ended up being
11 compensable, when they shouldn't have been
12 using the overestimate approach.

13 So say that's four out of 100, and
14 then we realize there's so many overestimated
15 cases in the whole pie. I'm not ready to say
16 that that -- because that policy was changed
17 at a certain point, so, you know, I'm not
18 saying that that probably likely affected four
19 percent of the overall. You know what I mean?

20 MR. KATZ: No, but, for example,
21 there are thousands of cases for which OCAS
22 has underestimated to get people compensated

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1 quickly, has done a quick sort of
2 underestimate of their dose to get people
3 compensated in an expedited fashion.

4 How well has that process worked
5 for that -- you know, if that's 15 percent of
6 the entire caseload, you know, then you can
7 say for 15 percent of the caseload this is how
8 OCAS has gone at it, and this is how it's
9 worked, and this is the problems with it.

10 And you can go down -- again, you
11 could probably break the pie chart into four
12 pieces or so that are really significant
13 because there's a lot of lumping that could be
14 done, and you could just speak generally about
15 each piece of that, you know, with the context
16 of how much of the whole load is this.

17 And what were the problems we saw
18 with these, and what's the good that we've
19 seen with this piece. I think you could do
20 that -- and, again, I think that is what the
21 Secretary would want to know about, more than
22 that -- I'm sure the Secretary would be happy

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1 to know that the process is going well and
2 working together and improving the program,
3 but I think that's the kind of bottom line
4 messaging that the Secretary would want to
5 know about.

6 MEMBER MUNN: Generally, that's
7 what I'd expect to see in an executive
8 summary, and that charts, especially when
9 they're as simplified as that pie chart could
10 be made -- always an outstanding way to
11 transmit a lot of information in one glimpse.

12 So it's perhaps something we should
13 strongly consider in terms of inclusion here,
14 and --

15 CHAIRMAN GRIFFON: We can try --

16 MEMBER MUNN: -- perhaps have a
17 single statement with reference to it.

18 CHAIRMAN GRIFFON: I mean, I can
19 try to add that in. The question is timing on
20 this next meeting, but I can try to add --
21 when you say if we state it qualitatively, I
22 guess I was hesitating on it because if we

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1 started to try to be quantitative about it, I
2 thought we were going to go down a path where
3 --

4 MR. KATZ: No, I understand that.
5 I understand that perfectly. I mean, the only
6 quantitative part is just the -- how much of
7 the pie are we talking about with the
8 qualitative information we're giving --

9 CHAIRMAN GRIFFON: Right, right,
10 right.

11 MR. KATZ: -- so there's context.

12 MEMBER GIBSON: But, Mark, it also
13 seems to me that we don't want the graph to
14 make it look so simple that the wording and
15 all of the work that we've put into this is
16 just glossed over.

17 CHAIRMAN GRIFFON: Right.

18 MEMBER MUNN: I think that's
19 unlikely, but it's -- especially if we've
20 already given some sense of the percentage of
21 cases that are even being involved in what
22 we're looking at. That's -- which we do later

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1 in the -- I believe we -- if I remember the
2 letter from before, I believe we discuss, we
3 mention the fact, not in this executive
4 summary but elsewhere that -- that we're doing
5 two and a half percent of cases, and this is
6 only a hundred out of whatever number would be
7 applicable for the period that these 100 cases
8 -- I can't remember the date, the cutoff for
9 the first 100 cases that we were looking at,
10 but that would give a better feel for the --

11 DR. MAURO: That was the first two
12 years out of a five-year contract, so those
13 first 100 cases really were effectively
14 processed during that first two years.

15 MEMBER MUNN: Yes, these were many
16 years ago now and --

17 CHAIRMAN GRIFFON: Well, what I can
18 do is add on some of this stuff, and I've got
19 sort of -- I'm just thinking through this --
20 the underestimates for compensable claims, how
21 effective is that process working. I think
22 that's legitimate to put in there.

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1 Overestimates for non-compensable
2 claims and how -- and -- but in there I would
3 add some of the pitfalls that have been
4 identified, such as, you know, people coming
5 back with additional cancers, PER reviews
6 changing their numbers to lower values later,
7 you know.

8 So, there have been -- if not
9 necessarily technical problems, it's a
10 communication to the public problem, you know.

11 MR. KATZ: It's been an important
12 issue. It's not a small issue; it's an
13 important issue in this program.

14 CHAIRMAN GRIFFON: Right, right.
15 It's in the overestimate for a compensable, I
16 think we have to identify that. The policy's
17 changed, but it was an issue earlier, you know
18 -- and then the best estimate.

19 Yes, go ahead.

20 DR. MAURO: I'm really stepping
21 further away from this. I think that, if you
22 remember, what we have here is the date the

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1 board has performed audits of 140 cases.

2 CHAIRMAN GRIFFON: Right.

3 DR. MAURO: This represents the
4 first 100.

5 So that's a very big context and,
6 therefore, within that 240 -- it has to be
7 understood by the -- that we're really looking
8 at the first 100.

9 So there's a story emerges from
10 that which is obviously different than if you
11 were, you know, trying to capture where we are
12 in the 240.

13 The other things that I -- one of
14 the things that I've seen -- and I don't know
15 whether you want to capture this or not. This
16 is just -- I use the term unintended
17 consequences. Let me explain what I mean.

18 The regulations have an efficiency
19 requirement, have a consistency requirement,
20 transparency, hierarchy of data. All of these
21 things are fundamental to, you know, the regs.

22 And one of the things that I've seen happen

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1 in the process of trying to navigate and not
2 only that and putting out water -- how many
3 24,000?

4 Whatever the number the pump is,
5 putting them out, the pressure to put them
6 out, so you're trying to put all these out as
7 quickly as you can, but within the context of
8 what I say competing objectives, that is it's
9 not always easy to be efficient and meet the
10 hierarchy of data.

11 When do you resort to surrogate
12 data when you don't? There are so many
13 judgments that have to navigate their way
14 through what I would call to a degree certain
15 competing goals, which they should be because
16 you're trying -- and I could see the struggle.

17 And what we're watching is the
18 maturation of a process that's trying to
19 strike a balance that's navigating its way
20 through this very difficult competing
21 objectives.

22 And as a result of that there are

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1 certain unintended consequences that came out
2 that where -- and the thing that the board is
3 doing is putting a spotlight on that. That's
4 really what this whole thing that we've been
5 doing to me has -- it's a way that while NIOSH
6 is inside the trenches working the problems,
7 putting out thousands of these Drs, what does
8 the board do? The board steps back and says,
9 well, you know -- and tries to step up into
10 the stratosphere and starts to get a sense
11 for, you know, where within this process and
12 the demands placed on it by the regulations
13 and the statute have there been unintended
14 consequences that we have to recognize and
15 start to, I guess, improve so that we strike
16 that balance where all of these missions
17 that's dictated by the regulations can be --
18 can strike that proper balance.

19 And I think that in the first 100
20 that balance was not necessarily always
21 struck. And there's a process at work to re-
22 establish that balance, to try to find that.

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1 And I could see this whole program moving in
2 that direction.

3 I don't know -- that kind of theme
4 is very distant, but it's -- from the way you
5 --

6 CHAIRMAN GRIFFON: Unintended
7 consequences kind of falls off from --

8 DR. MAURO: Yes, it does, it does,
9 but I mean I think is a very -- quite frankly
10 I think there should be a positive. I think
11 that the process that we're doing is very
12 difficult, but if you step back and you look
13 at what it is that we really did, it's really
14 dealing with the tension, Lew Wade's word, the
15 tension that exists within the regulations
16 themselves to try to strike a balance, and
17 this is not easy.

18 CHAIRMAN GRIFFON: No, that's fine.
19 I got some of that down.

20 I guess what I'll offer is -- and
21 Wanda and Mike if -- I guess what I'm going to
22 try to do is redraft this report, and

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1 obviously we won't be able to vote on it as a
2 subcommittee, but maybe email it, you know,
3 not the day before the May meeting, but email
4 it a week before at least, and I will
5 definitely commit to that, because if I do it
6 in the next couple of days it will be fresh on
7 my mind, too, and otherwise -- because when I
8 went back to this I had forgotten some of
9 those things, you know.

10 So I'll try to do this while it's
11 fresh, email it out to the subcommittee
12 members, and then present it at the board
13 meeting and say that we had a lengthy
14 discussion on these issues, but we didn't, you
15 know, because of timing we didn't all vote on
16 a draft, and then we can just vote on the
17 report as a full board, you know, if that's
18 acceptable.

19 MEMBER MUNN: Well, it's certainly
20 acceptable to me. I'm sorry we can't have
21 another hour or two-hour long teleconference
22 specifically addressing this and nothing else

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1 as it comes to the board, but I think it will
2 be adequate for us to complete that task
3 through email exchange if we all actually do
4 sit down and address ourselves to it.

5 It's --

6 CHAIRMAN GRIFFON: I'd be willing
7 to do a couple-hour conference call, but I'm
8 not sure how long in advance we need to
9 announce a subcommittee meeting.

10 MEMBER MUNN: I don't know either.

11 CHAIRMAN GRIFFON: Can we get it in
12 before the board meeting? Is that --

13 MR. KATZ: Well, I mean we're
14 ordinarily supposed to have 30 days to
15 announce it. We can do a rushed thing. I
16 would also note though that this board meeting
17 agenda is relatively light on the second day,
18 meaning that there's a good amount of time for
19 board discussion for sort of hammering things
20 out maybe to a degree --

21 CHAIRMAN GRIFFON: Right.

22 MR. KATZ: -- that you wouldn't

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1 ordinarily have time for in a full board
2 meeting, so --

3 CHAIRMAN GRIFFON: But I agree with
4 Wanda, I'd rather come with a product from the
5 subcommittee. That would be nice.

6 MEMBER MUNN: It would be very nice
7 if we could. If we have to do it through
8 email exchange and individual conversations
9 with each other, then that's -- I'm sure that
10 can be done. We haven't done that in the
11 past, but --

12 CHAIRMAN GRIFFON: Well, let me --
13 at lunch time let me look at the calendars
14 with Ted and everyone here --

15 MR. KATZ: Right.

16 CHAIRMAN GRIFFON: -- and let's see
17 if we can get maybe a short conference. It
18 won't have to be a face-to-face. We can do a
19 conference call meeting and, you know, I agree
20 with you, Wanda, I'd like to do it that way,
21 if we can.

22 MR. KATZ: That calendar -- the

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1 week right before the board meeting. I mean,
2 I don't know if that's enough time --

3 CHAIRMAN GRIFFON: Has room?

4 MR. KATZ: -- but that week has
5 room. It doesn't give the rest of the board a
6 lot of time with it, but if you did it early
7 in that week then they'd still, you know, have
8 more less a week to cogitate over what you
9 deliver.

10 CHAIRMAN GRIFFON: All right, we'll
11 keep that option open, Wanda, either via email
12 or a better situation would be by a conference
13 call, either a week before or two weeks before
14 the --

15 MR. KATZ: I mean, by email
16 obviously you can't have a vote of the
17 subcommittee or anything by email.

18 CHAIRMAN GRIFFON: Right.

19 MR. KATZ: You can share
20 information.

21 CHAIRMAN GRIFFON: You can share
22 information, but we can't vote, right.

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1 Understood. So we'll try to convene a
2 conference call maybe a week before the board
3 meeting, but we'll look at calendars and I'll
4 email you on that, Wanda. And I want to make
5 sure we get John also available -- John
6 Poston, I'm sorry.

7 MEMBER MUNN: Yes, that will be
8 fine. The only day that week, looking at my
9 calendar right now that is impossible for me
10 is the fourth, that Monday. We have a medical
11 procedure with my spouse, and I won't be able
12 to be on board at all on the fourth, but any
13 other day I could -- of that week prior to the
14 Amarillo meeting.

15 CHAIRMAN GRIFFON: Okay.

16 MR. KATZ: Okay, May 5th might be a
17 good one to shoot for.

18 CHAIRMAN GRIFFON: Cinco de Mayo,
19 maybe. Okay. All right, I'll email people
20 about that, but I'll try to resolve it before
21 we leave today because Ted has to -- I mean,
22 we have to make an announcement --

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1 MR. KATZ: We have to make a
2 Federal Register notice for that.

3 CHAIRMAN GRIFFON: Okay.

4 MEMBER MUNN: Good, yes.

5 CHAIRMAN GRIFFON: So I guess we'll
6 leave the topic for now.

7 MEMBER MUNN: I'll look forward to
8 getting your second round.

9 CHAIRMAN GRIFFON: You had another
10 draft. Sixth round, actually, but who's
11 counting?

12 MEMBER MUNN: Well, yes, but --

13 CHAIRMAN GRIFFON: Okay, I've got
14 all my revs. Anyway -- so do we want -- if
15 everybody's ready I was going to go into the
16 sixth set and seventh set now, and then unless
17 people need a break I would just as soon --
18 let's go into the sixth set at least and try
19 to get through that, and then we'll get our
20 lunch break in.

21 And, Wanda, are you dialing off
22 soon or hanging up?

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1 MEMBER MUNN: I'll try to hang in
2 for another 45 minutes or so, but --

3 CHAIRMAN GRIFFON: Okay.

4 MEMBER MUNN: -- but by nine
5 o'clock my time I have to be out of here.

6 CHAIRMAN GRIFFON: All right.

7 MEMBER MUNN: Thanks.

8 CHAIRMAN GRIFFON: Well, I'm glad
9 we -- I'm sorry about it being so rough, but
10 I'm glad we had the discussion while you were
11 on the line.

12 MEMBER MUNN: Well, I appreciate
13 your moving it up. Thanks, because I --
14 obviously if this is important and certainly
15 looms large in my own personal concerns over
16 what we're doing in this subcommittee, so
17 thanks.

18 CHAIRMAN GRIFFON: All right.
19 Okay, so if everybody's got -- I mailed like -
20 - much like everybody else I mailed the
21 updated matrices which I promised at the last
22 subcommittee meeting and said that I would

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1 send them out like a day later. I sent them
2 out a day before this meeting, so they were a
3 little late, but they are -- I think they're
4 pretty easily formatted to go through. The
5 yellow highlights should have the outstanding
6 actions, so if we can just kind of turn to
7 that sixth matrix and maybe start our
8 discussion from there, and then you guys can
9 tell me what's been sent around in the last
10 couple of days.

11 MEMBER MUNN: There's one thing I
12 ought to mention also, Mark. Two weeks ago,
13 my electronic file for all of my ABRWH data
14 self-destructed, and so if we're referring to
15 any material that was transmitted or was in
16 place prior to the month of March, then I'm
17 going to have to back track and get that
18 information from someone else, but --

19 CHAIRMAN GRIFFON: Okay.

20 MEMBER MUNN: -- I do not have the
21 information on which I've been building for --

22 CHAIRMAN GRIFFON: Seventeen years.

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1 Well, you do have the matrices, right,
2 because I think I sent those out the other
3 night?

4 MEMBER MUNN: I believe so.
5 They're the sixth set, right?

6 CHAIRMAN GRIFFON: So I'm just
7 going to do the same thing I did the last
8 meeting, pan down and look for yellow
9 highlighted items.

10 MEMBER MUNN: Right.

11 CHAIRMAN GRIFFON: The first one I
12 have is Case Number 104.7 -- or Finding 104.7,
13 asking NIOSH to provide the basis for the
14 concentration of transuranics use for this
15 site.

16 Do you have that? That was a site
17 specific one, not a --

18 MR. HINNEFELD: The research into
19 transuranics and uranium was done essentially
20 on a grand scale. What can we find out about
21 this, because this particular site -- I was
22 just trying to open -- Doug, do you know which

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1 site this is, off hand?

2 MR. SIEBERT: Superior Steel.

3 MR. HINNEFELD: So, it's Superior
4 Steel. So it's one of the AWEs that would
5 take the metal that we sent them and machine
6 it.

7 And so there's a category of this
8 research that has, you know, that essentially
9 that addresses the steel -- or the metal
10 inventory, uranium metal inventory at various
11 stages and things like that.

12 And since it has a number of
13 aspects associated with it, it's been somewhat
14 controversial in our own shop, within OCAS's
15 shop, and we've -- because of competing
16 priorities have not come to a resolution on
17 how exactly we'll proceed.

18 There is a draft of TIB prepared
19 that addresses essentially. It would describe
20 for uranium metal -- you know, this is the
21 content, the likely content or the bounding
22 content, or however it would be written for

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1 these years and then for these years. I think
2 there would some year-to-year specification in
3 there, although I'm not terribly familiar with
4 it. I haven't looked at it for quite a while.
5 I'm not one of the people involved.

6 So it would be informative of this.

7 I mean, it would be a way to describe the
8 research that has been done, and it occurs to
9 me that I should just go do that. I should
10 just go read, you know, figure out what
11 research has been done that reflects the metal
12 content, not worry about the rest, and I can
13 provide that information. I have not.

14 And I've kind of been, you know,
15 lazily resting. I've been doing other things,
16 because I've got plenty to do and letting this
17 sit until we could come within OCAS to some
18 resolution of that.

19 What is our approach going to be,
20 the TIB is -- doesn't seem to be as precise as
21 it could be, for instance.

22 So, maybe it is as precise as it

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1 can be, you know. There's that debate as to
2 what's going on. But given that I don't know
3 that the debate really speaks to the metal,
4 the uranium metal content, which is as I
5 understand it -- in my poor understanding of
6 this is probably fairly well understood, as
7 opposed to the immediate products where the
8 concentrations do not stay.

9 CHAIRMAN GRIFFON: Right.

10 MR. HINNEFELD: Once you've got the
11 metal, it's going to stay there. So I could
12 go and try to retrieve that -- you know,
13 retrieve that portion of the research, you
14 know, or that portion of the document -- kind
15 of reproduce that for this subcommittee and
16 say this is why we believe these values are
17 correct, or the values in this TIB were based
18 on old research and are not good, and we'll
19 have to, you know, at least do something like
20 a PER to this particular site.

21 DR. MAURO: I may be able to help a
22 little. Because of the work we do with

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1 Fernald and because a lot of the work I have
2 done on these sites, I find myself getting
3 very familiar with the uranium issue, and it's
4 taken form in my mind what the issue is.

5 In essence, the metal that was
6 shipped to AWE facilities, it was a
7 specification that it shouldn't really not
8 have more than parts per billion.

9 CHAIRMAN GRIFFON: That was an
10 internal DOE specification?

11 DR. MAURO: Right, and from what we
12 can tell that was at least starting at a given
13 point in time seemed to hold up well, so when
14 I review an AWE I usually come down pretty
15 favorably as it applied to an AWE.

16 Where we started to run into a
17 little trouble is at Fernald. Fernald would
18 receive the material from Hanford and other
19 facilities and in theory the default recycled
20 uranium was 100 parts per billion, but there
21 are lots of exceptions to that, especially
22 this tower ash from Paducah, and in addition

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1 there was another one that challenges that
2 default assumption, and that is that
3 apparently there was a change in the early
4 years going from -- that go through the
5 chemical separations process, the deliberate
6 effort to chemically separate out the uranium.

7 There would be a specification on -
8 - once you could separate the uranium out, to
9 make sure that it met a certain spec. That
10 was when they took the spent fuel and
11 deliberately went through this process to
12 separate out the plutonium, uranium.

13 There was also a plutonium step.
14 But prior to that date which I believe is
15 sometime in the mid fifties they were actually
16 -- the digested spent fuel that was in the
17 tanks at Hanford became -- was the source that
18 was there, and then it came from there and
19 then it was processed.

20 My understanding is that when they
21 were in that mode, when they were working from
22 the digestive spent fuel that was coming out

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1 of the tanks that was being recycled, that's
2 when there's -- we have some question about
3 the break down and understanding the
4 composition of the material that was sent to
5 Fernald, and the material that may very well
6 have gone on to AWEs, because there was less
7 control over the mix.

8 And the mix of not only the
9 plutonium to uranium that's 100 parts per
10 billion but neptunium and the other
11 radionuclides relevant -- in the mix also
12 became a lot more uncertain.

13 So right now SC&A's position I
14 guess is that the first line of concern is
15 that there's an elbow between when they were
16 working from digested material in the tanks
17 and when they weren't, and when they weren't
18 later on there was a lot more control of
19 knowing what we were dealing with, as opposed
20 to when they were working from material that
21 was coming out of these.

22 CHAIRMAN GRIFFON: And you think

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1 that time when they started to do the
2 separations at Hanford or whatever, that was
3 in the mid fifties or sixties. But before
4 that it wasn't happening --

5 DR. MAURO: This is -- the way I
6 see it is the root cause of the concern over
7 getting a good handle on making sure that we
8 understand what the composition of the
9 recycled uranium is.

10 CHAIRMAN GRIFFON: Right.

11 DR. MAURO: Now the degree to which
12 it reaches though -- this concern -- see, you
13 have barriers. You've got the barrier of
14 control that's at Hanford.

15 Then you go to Fernald, and of
16 course that started up in I guess '52.

17 CHAIRMAN GRIFFON: I think it
18 started around '52.

19 DR. MAURO: Right. And there was a
20 time period where Fernald was dealing with
21 this material, and of course from Fernald it
22 goes to the AWEs, but there was also before

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1 that. I mean, these AWEs were getting
2 material before Fernald, you know.

3 CHAIRMAN GRIFFON: Right.

4 DR. MAURO: So we do have lots of
5 AWEs that were processing recycled uranium.
6 So the question was when they were getting
7 that material before it came from Fernald they
8 were getting that material, did the 10 part
9 per billion still hold?

10 CHAIRMAN GRIFFON: Right, were
11 there specs on it?

12 DR. MAURO: Exactly, so -- I mean,
13 I'm trying to get the -- this is really where
14 the I think the game is, where we have to get
15 a good handle on -- and it has to do with
16 time, and when the controls start to come in
17 and take hold.

18 Once they took hold, I think that
19 the 10 part per billion and 100 part per
20 billion probably holds well. It's before
21 those controls were in place.

22 CHAIRMAN GRIFFON: And I think

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1 you're right. Complex wide, that's an
2 important thing to look at, but for this
3 individual part I think Stu's answer's I think
4 a good approach here, you know. Look back to
5 this particular case, see what you have.

6 DR. MAURO: Well, this is Superior
7 Steel. I mean, within that context just on
8 the date itself would give you insight on
9 whether or not --

10 CHAIRMAN GRIFFON: Right.

11 DR. MAURO: -- you could trust --

12 CHAIRMAN GRIFFON: Yes, and I don't
13 know when it was operational. Do you know off
14 hand?

15 DR. MAURO: Not off hand. I did
16 that once, and I don't remember the date.

17 CHAIRMAN GRIFFON: Well, let's just
18 leave it as an outstanding action, but -- but
19 I heard what you're saying, John, and that's
20 good information.

21 But, Stu, you'll follow up --

22 MR. HINNEFELD: Yes, and it occurs

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1 to me now sitting here that this could have
2 been -- I've been sitting here waiting,
3 thinking that, well, until we OCAS resolve our
4 internal discussion about how were we going to
5 deal with recycled uranium which actually
6 informs us of some other dose -- there are
7 other dose reconstructions as well, but we
8 think we have, you know, the intention was
9 let's describe what we can. I mean, and it
10 may say if you've got site-specific data then
11 this is the default. That may be what it
12 says. I don't really know.

13 And I just kind of have been saying
14 well until that's resolved there's no point in
15 trying to resolve these, and that's not
16 entirely true. If the debate doesn't concern
17 what this DR --

18 CHAIRMAN GRIFFON: That's what I'm
19 thinking. This might be a simpler situation -
20 -

21 MR. HINNEFELD: Yes.

22 CHAIRMAN GRIFFON: -- than some

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1 other site. Some of the sites are going to
2 get complicated because you overlap that time
3 frame you were talking about.

4 DR. MAURO: It depends on where it
5 falls.

6 CHAIRMAN GRIFFON: We might be able
7 to resolve this one a little quicker.

8 MEMBER MUNN: Now did I understand that
9 conversation correctly to boil down to how
10 effective were early reprocessing efforts in
11 actually extracting the materials that they
12 were built to extract.

13 Is that the real question here?

14 DR. MAURO: I think it's a matter
15 of implementing technical specifications on
16 the product. That is, at some point in the
17 process the ability to control the quantity of
18 plutonium and other radionuclides in the
19 recycled uranium, it improved as time went on,
20 so that those specifications were in place,
21 and the controls were in place to know exactly
22 what we were dealing with.

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1 MEMBER MUNN: Right.

2 DR. MAURO: As you go back in time,
3 those controls were a little less -- they were
4 more ambiguous.

5 MEMBER MUNN: Well, they were
6 rudimentary, but the question then becomes
7 whether it's necessary to know the source of
8 the material as well as the approximate dates
9 that the reprocessing of the material took
10 place. In fact, isn't that getting enormously
11 complicated?

12 CHAIRMAN GRIFFON: Well, I guess
13 all we're asking for is, you know -- and maybe
14 it is, maybe -- I don't know. Maybe what
15 Stu's going to come back and say, you know,
16 that we chose these values because we're not
17 exactly sure of the source, and this would be
18 bounding, or something like -- you know.

19 So all we're looking to understand
20 in this particular case is why did you select
21 the numbers that you did for -- is it General
22 Steel?

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1 DR. MAURO: Superior Steel.

2 CHAIRMAN GRIFFON: Superior Steel,
3 I'm sorry, for Superior Steel.

4 So what's the basis for those
5 numbers -- and, NIOSH may come back and say
6 we, you know -- like you said we couldn't
7 track down every source that they got, but
8 based on our knowledge this would be the most
9 bounding value, or something like that.

10 MR. HINNEFELD: And we may know
11 that, and I just haven't pursued it to --

12 CHAIRMAN GRIFFON: That's sort of
13 what I'm thinking, Wanda, anyway.

14 MEMBER MUNN: Okay.

15 CHAIRMAN GRIFFON: All right.
16 Well, we'll leave it as an action, so we're
17 not going to close the sixth set.

18 DR. MAURO: Well, does this go to -
19 - this doesn't go to OTIB 53 then. In other
20 words, this is not something that would be
21 transferred?

22 CHAIRMAN GRIFFON: That's what I

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1 was trying to avoid --

2 MR. HINNEFELD: Well, that --

3 CHAIRMAN GRIFFON: -- was not to
4 have them rolled into that.

5 MR. HINNEFELD: You know, the thing
6 about it is that we might be able to put this
7 particular dose reconstruction or Superior
8 Steel to bed without resolving everything
9 else.

10 CHAIRMAN GRIFFON: So that's why I
11 left it as an action on this site, because I
12 thought the bigger TIB, it didn't have to wait
13 --

14 DR. MAURO: I've got you.

15 CHAIRMAN GRIFFON: So I think we're
16 on the same page now.

17 All right, moving on to 107.4,
18 additional analysis information. Anyway --

19 MR. HINNEFELD: Well, I can
20 summarize. I sent this fairly late yesterday
21 -- pretty late yesterday for me, and I believe
22 -- the note I took was to, let's see. I said

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1 refer to the fairly extensive SC&A reaction in
2 the resolution column. In other words, SC&A
3 has provided a fairly extensive discussion of
4 our earlier response, and then my --

5 The issue is what guidance is there
6 for selecting chronic intake versus acute, or
7 a series of acute intakes in cases like this,
8 and what guidance is there for specifying
9 duration of a chronic intake, and can't such
10 guidance be developed. If so, where could it
11 appear?

12 And it appears that it does exist
13 now in OTIB-60, and the package I sent -- at
14 least I hope I included -- is this the email I
15 sent last night --

16 DR. MAURO: Yes.

17 MR. HINNEFELD: -- describes
18 essentially passages from OTIB-60 that provide
19 guidance to the dose reconstructors about
20 choosing when you're doing a missed Dose
21 calculation, what should you choose?

22 And there's -- the guidance in

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1 OTIB-60 is largely that the presence or
2 absence of bioassay data in and of itself is
3 not a definitive indicator of potential for
4 exposure. For instance, if a person is going
5 on and is being monitored and their job -- and
6 then there's a couple of years when they
7 don't, say they were on annual sampling and
8 there are a couple of years when they're not
9 sampling, and although their job appears to
10 remain the same and so on and so forth, then
11 it would seem that their exposure potential --
12 you should not say that, well, they apparently
13 weren't exposed because the sampling stopped,
14 but there has to be some other evidence, as
15 well. Just the sampling stopping would not do
16 it, and there are examples in here what kind
17 of evidence to look for.

18 And so I guess in this case -- and
19 I guess -- like I said I looked at this very
20 late and haven't studied it real closely, the
21 persons essentially stayed in the same job,
22 the other evidence -- the other supporting

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1 evidence didn't go along with that, and so,
2 you know, the guidance that's provided in the
3 OTIB.

4 So essentially what we've -- what
5 the project is about for this is the technique
6 is usually to -- I think it's a chronic --
7 chronic exposure over the potential exposure
8 period, if I'm not mistaken.

9 MEMBER MUNN: Right.

10 MR. HINNEFELD: So essentially it's
11 -- you know, that kind of decision was made.
12 Now I think there was some work done early on
13 that indicates that chronic exposures -- that
14 technique tends to bound what you can come up
15 with if you do a series of acutes. Didn't we
16 do that early on?

17 DR. MAURO: I remember Jim giving a
18 presentation on that.

19 CHAIRMAN GRIFFON: Yes, David
20 Allen, actually --

21 DR. MAURO: It was Dave Allen?

22 CHAIRMAN GRIFFON: -- earlier than

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1 that. So we had a couple of those. We've
2 been around the block on that.

3 MR. HINNEFELD: So that was -- and
4 so that's kind of it, and since that's
5 generally -- you know, since generally the
6 bounding scenario then that's usually what's
7 selected for this kind of exposure.

8 So that's how we got where we are.
9 That's what I was able to find out.

10 CHAIRMAN GRIFFON: I mean, I think
11 that answers the question. We had asked on
12 03-12 -- the real follow-up, I guess, on this
13 issue was can NIOSH investigate -- you know,
14 is there general guidance used for this
15 determination, and your answer is yes, in
16 OTIB-60, so I think that's our answer is that
17 in OTIB-60 --

18 I'll ask Wanda this: is OTIB-60
19 still under review in the procedures work
20 group, or have we --

21 MEMBER MUNN: Ask me that.

22 MS. BRACKETT: Well, this is Liz

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1 Brackett, and I can tell you that it is. I'm
2 right now asking questions --

3 CHAIRMAN GRIFFON: Yes, I thought
4 it was.

5 MEMBER MUNN: Thank you, Liz. It
6 was -- my memory was that it was still open,
7 but I don't have my matrix in front of me.

8 MS. BRACKETT: I think there's just
9 one open question on it. There have been some
10 bounds already on it, and we're down to just
11 one or two now, I think.

12 CHAIRMAN GRIFFON: Let me guess,
13 chronic being bounding. I'm sorry, good to
14 hear you, Liz.

15 So I just put that this guidance is
16 available in OTIB-60. OTIB-60 is being
17 reviewed in the procedures committee.

18 MEMBER MUNN: Right.

19 CHAIRMAN GRIFFON: So that's closed
20 out for our purposes.

21 MR. FARVER: I mean, I just
22 appointed the finding was in this case that

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1 chronic wasn't binding.

2 CHAIRMAN GRIFFON: Right, that's
3 right. That is.

4 MR. SIEBERT: Well, and I remember
5 that we discussed this at the end of it last
6 time. We did the comparison. We did the
7 acutes, and it was both of those times larger
8 than anything that was calculated in OTIB-1,
9 any of the documented intakes that had been
10 assessed at Savannah River.

11 MR. FARVER: Right, and this is
12 what led to, well, how do you determine
13 whether to choose multiple or acutes or
14 chronics? It goes back to this finding or
15 their response.

16 It pretty much -- I've been
17 reviewing that while we've been talking,
18 what's in OTIB-60, and it's not that specific.

19 CHAIRMAN GRIFFON: Okay, all right.

20 So this is back to the -- and this is sort of
21 the -- and these are the kind of findings that
22 spurred my question of this DR guideline. You

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1 know, is there more specificity in those
2 guidelines, but apparently not, you're saying.

3 So I guess the issue remains on
4 this. I'm sorry, Doug, I didn't mean to get
5 ahead of myself.

6 MR. FARVER: I'm not sure you could
7 make good guidelines to do that, you know, to
8 determine whether you use multiple, acutes, or
9 chronics, especially since this was a strange
10 case. This was a person who moves around a
11 lot and was on an annual frequency which
12 compounds the problem, you know, considerably,
13 so I don't know what you do.

14 CHAIRMAN GRIFFON: And then if you
15 go back to Savannah River, I mean, some of my
16 initial concerns about the whole high five --
17 I mean, you're saying that these would have
18 exceeded any of the recorded, and that's -- I
19 guess that's the key --

20 MR. FARVER: Right.

21 CHAIRMAN GRIFFON: -- recorded high
22 intakes, you know, so --

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1 MR. FARVER: And I guess I would
2 feel better --

3 CHAIRMAN GRIFFON: -- is this guy
4 someone who was missed?

5 MR. FARVER: -- is if it's
6 somewhere included in the DR report that we've
7 looked at multiple acutes, we've looked at
8 chronic. Multiple acutes are not very likely
9 because they would exceed, you know, the
10 maximum dose here, so we chose chronic -- some
11 kind of justification saying we looked at it,
12 but.

13 MR. HINNEFELD: Well, I think -- I
14 mean, like I said when you're generating an
15 unambiguous record of the decision, it's
16 always worthwhile to say as much as you can
17 about how you reached your decision. I think
18 that's probably a good point.

19 MR. FARVER: And whether that's in
20 the DR report or in a comments form that's in
21 the record -- or you want the records.

22 MR. HINNEFELD: The -- as I recall,

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1 this person was this personal security officer
2 --

3 MR. FARVER: Yes.

4 MR. HINNEFELD: Okay, so in order
5 for the multiple acutes then to be, you know,
6 realistic, then you would have a person who's
7 generally in most places not considered highly
8 exposed, you know, certainly not to an
9 internal. I mean, it would probably be an
10 event type of release likely for a significant
11 exposure.

12 Multiple times, they went to a lot
13 of places --

14 MR. FARVER: A lot of places --

15 MR. HINNEFELD: -- that I think in
16 --

17 MEMBER MUNN: Briefly.

18 MR. HINNEFELD: -- in most cases
19 that large intakes were people who were -- you
20 would expect to be. Well, they were around an
21 event, you know, a large event, or they were
22 the people that you would expect to have --

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1 you know, people who were welding and burning
2 and cleaning out pipes and stuff.

3 CHAIRMAN GRIFFON: I don't know. I
4 know a case -- I don't think this is revealing
5 too much, but I know one of the cases that Tom
6 LaBone presented several years back was this
7 situation where somebody got unexpected, very,
8 very elevated internal Dose, at least for the
9 time period they were in, I think it was in
10 the nineties --

11 MR. HINNEFELD: Yes, yes.

12 CHAIRMAN GRIFFON: -- and they were
13 just doing surveillance through the -- you
14 know, and there was this big debate between a
15 number of people. I mean, I remember Skrable
16 saying put BZAs on everyone and Tom LaBone
17 saying, yes, right, that's ridiculous. That
18 brings us back to school.

19 But, anyway, you know, so that's a
20 situation where the guy wasn't being, you know
21 -- so I don't know if --

22 MR. HINNEFELD: I mean, the large

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1 intakes, you know, the large intakes context
2 -- large, based on the time period, and these
3 were multiple -- same guy, multiple large
4 intakes, larger than any that had ever been
5 reported down there, that had been recorded
6 down there.

7 MR. FARVER: Right, all I'm saying
8 is if you look at it and you say these are
9 larger than anything recorded down there, so
10 we chose this -- somewhere in the
11 documentation that would be fine.

12 CHAIRMAN GRIFFON: Yes, again,
13 that's unambiguous. I agree with you on this.

14 MR. FARVER: And this is what --
15 well, how do you know what to choose between
16 the two?

17 MS. BRACKETT: Well, I -- in this
18 case it clearly should have been modeled as a
19 chronic intake, because there's three intakes
20 in a row that are all positive and slightly
21 increasing over time. That seems to be the
22 most obvious way to model it.

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1 If you have slightly increasing
2 results over time, why would you model it as
3 three separate acute intakes?

4 MR. FARVER: They were over a
5 period of years.

6 MS. BRACKETT: Yes, but they were
7 the only ones.

8 MR. SIEBERT: There were only two
9 samples. Sorry, Liz, I just had to throw in.
10 There's two samples, one in 55 and one in 56.

11 MS. BRACKETT: I thought there were
12 three samples.

13 MR. SIEBERT: With -- with no
14 necessary indication as to why they were
15 taken, and Liz is correct, they were
16 increasing, and that -- in the original
17 response to this, the dose reconstructor did
18 say that's why they selected chronic, because
19 they were increasing over time.

20 MS. BRACKETT: And there is
21 specific items in OTIB-60 that tells you to do
22 that. It says under general philosophy --

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1 well, in Section 5.3.2, it says fit all of the
2 results simultaneously. A mix of chronic and
3 acute intakes can be applied. A single
4 chronic intake can also be fit when there are
5 only intermittent positive results that are
6 relatively small. This could be
7 representative of a low level chronic intake.

8 So I mean, the general guidance to
9 the dose reconstructors is to assume chronic;
10 and in fact, I'm going to have to find a
11 reference, but there is -- there have been
12 papers recently published that said, if you
13 don't know when the intake date is, it is more
14 accurate to assume a chronic exposure during
15 the time frame than to assume the midpoint.
16 The British have published papers on that and
17 have been doing some analysis of that.

18 And I would also mention that we
19 can't possibly model every possible intake
20 scenario. I mean, if we did that, we would be
21 here till the end of time trying to look at
22 everybody's results and come up with what

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1 could possibly be the largest possible intake
2 scenario for each individual.

3 CHAIRMAN GRIFFON: Well let me slip
4 back on this one, was it a best estimate case?
5 I don't have that.

6 MR. SIEBERT: No, it was about 35
7 percent, if I remember --

8 CHAIRMAN GRIFFON: Okay.

9 MR. SIEBERT: -- with some
10 overestimates in them.

11 CHAIRMAN GRIFFON: All right, so it
12 was not -- I mean, it doesn't seem as if, you
13 know, there could be a debate maybe on whether
14 --

15 MS. BRACKETT: Sure, for a best
16 estimate you --

17 CHAIRMAN GRIFFON: Yes.

18 MS. BRACKETT: -- tone it down, but
19 given, you know, the methods that we do, we
20 couldn't get all the cases done if we had to -
21 -

22 CHAIRMAN GRIFFON: Oh, no, no, no.

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1 I'm just saying it's not between 45 and 50,
2 so it's not as if this was a, you know --
3 would this likely affect the outcome. That's
4 the question I guess -- you know if --

5 MEMBER MUNN: Liz certainly gives
6 us the basis for appropriate approach to this
7 particular case. It sounds as though it was
8 followed.

9 MR. FARVER: We're going to have to
10 go and see what the difference in the doses
11 would be.

12 CHAIRMAN GRIFFON: Right, right,
13 right.

14 MEMBER MUNN: Does SC&A accept
15 that?

16 CHAIRMAN GRIFFON: Well, he's
17 looking at something right now. I mean I
18 guess, you know, I would say this can be moved
19 to procedures work group under TIB-60 unless
20 it's an issue of the doses were very different
21 and could, you know, potentially affect a 35
22 percent going up to, you know, near 50, which

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1 I would think is unlikely, but you know.

2 MEMBER MUNN: So you're thinking
3 this is an appropriate discussion for 60?

4 CHAIRMAN GRIFFON: Well, just that
5 60 is being reviewed right now under --

6 MR. SIEBERT: I believe within the
7 last response we gave back in March, I believe
8 it was, we did state, even if the acute intake
9 scenario had been assigned using Type F, the
10 overall POC would have increased from 35 and a
11 half to 37.8 percent --

12 CHAIRMAN GRIFFON: Okay. Okay, so
13 I think on that basis --

14 MR. FARVER: -- for internal, which
15 still would not be enough.

16 CHAIRMAN GRIFFON: I think on that
17 basis we have to -- yes, we have to --

18 MR. FARVER: I think we agreed it
19 was a judgment call --

20 CHAIRMAN GRIFFON: Right.

21 MR. FARVER: -- and during the
22 discussion we brought up, well how do you

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1 determine --

2 DR. MAURO: Yes.

3 MR. FARVER: -- guides out there to
4 say you need to look at this or what to do.

5 I mean, that was --

6 CHAIRMAN GRIFFON: Yes.

7 DR. MAURO: It sounds like in the
8 context of this case, this judgment was
9 reasonable, and another judgment could have
10 been made, but it wouldn't change anything.

11 CHAIRMAN GRIFFON: But I would say,
12 and I'm sure what finding remains open in TIB-
13 60, but I guess the question to me now is to
14 look back at TIB-60 and say, is there enough
15 specificity for this -- because I heard some
16 varying opinions on that as I'm listening.

17 MR. FARVER: Well, that might be
18 one of the items that needs to close down.
19 I'm not sure I remember all the findings from
20 OTIB-60, but that might be one of them.

21 MS. BRACKETT: I don't think that
22 was --

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1 MR. FARVER: Was it --

2 MS. BRACKETT: -- because I know it
3 does not contain enough detail, and based on
4 experience that was gained since it was first
5 written, I am trying to add, you know, more --
6 more specific detail into it where possible.

7 MR. FARVER: Well, that was the
8 response to the initial finding, and that's --
9 you're going to add detail, and I think we
10 accepted that.

11 MS. BRACKETT: Right.

12 MR. SIEBERT: So it's in abeyance.

13 CHAIRMAN GRIFFON: Let me ask --
14 let me ask the other question looming from our
15 earlier discussion. Is there a Savannah River
16 set of guidance or notes right now, or have
17 those been --

18 MR. SIEBERT: They would not have
19 handled this situation.

20 CHAIRMAN GRIFFON: They wouldn't
21 have handled this situation?

22 MR. SIEBERT: At that time, we

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1 probably -- and I'd have to go from memory --
2 we probably had something in there that was
3 very much like what went into OTIB-60 --

4 CHAIRMAN GRIFFON: Okay.

5 MR. SIEBERT: -- because that has
6 been the prevailing --

7 CHAIRMAN GRIFFON: It wasn't any
8 more specific, or -- okay.

9 MR. SIEBERT: Right.

10 MEMBER CLAWSON: And I'd just like
11 to say one thing. I heard that they were
12 saying the security cards would not be a part
13 of it. In our situations out there when we
14 have an event or something goes awry, a lot of
15 times security has to come in and cover that,
16 and they've actually come up with a lot of
17 higher doses than what the operators actually
18 got into.

19 There's a protective process in
20 there, a lot of these different ones, they
21 basically have to secure up everything, and we
22 come to find out later that we were actually

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1 putting them in more harm's way than the
2 actual operators, because the operators were
3 prepared for it. The guards weren't.

4 MR. HINNEFELD: Yes, that's a good
5 point.

6 MEMBER MUNN: Well but Brad,
7 wouldn't that explain the reason for the two
8 specific pieces of data that have been
9 collected on this particular --

10 MEMBER CLAWSON: It very possibly
11 could. He could have been involved in
12 something, especially in the earlier years in
13 something like that. When something went
14 awry, the guards would actually come in and
15 protect this while they reconstructed a --
16 well, what we call a recovery action or so
17 forth like this, and this very possibly could
18 have --

19 MEMBER MUNN: Yes, yes -- well,
20 we're all familiar with that. We know how
21 that works, but this -- when those things did
22 occur, it was generally -- the administrative

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1 action was to gather as much data on the
2 exposed individual as possible, and I thought
3 that's probably what was occurring here with
4 these too high reports that we have.

5 MEMBER CLAWSON: It very possibly
6 could -- it's just under --

7 CHAIRMAN GRIFFON: Well I think the
8 generic issue we're going to send your way,
9 Wanda -- although I'm on that subcommittee,
10 too, so I'm not getting out of anything, but I
11 think I've closed it out on this one. I mean,
12 I think Scott's answer that they did examine
13 the acute scenario in this case anyway, and it
14 still doesn't affect the PRC, but you know,
15 OTIB-60 is still open and apparently still
16 being modified, so either the current review
17 of OTIB-60 on the procedures work group or the
18 review of the modification of OTIB-60, I think
19 that's where it'll be picked up.

20 MEMBER MUNN: Okay.

21 CHAIRMAN GRIFFON: All right? Just
22 wanted to give you some work before you --

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1 MEMBER MUNN: Thank you so much.

2 CHAIRMAN GRIFFON: -- before you
3 get on the airplane.

4 MEMBER MUNN: I do appreciate that.
5 Every -- every little bit helps.

6 CHAIRMAN GRIFFON: Anything I can
7 do to help, Wanda. You know me.

8 MEMBER MUNN: We know, we know.

9 CHAIRMAN GRIFFON: All right,
10 moving on, we're going to try to get through
11 set six before lunch here.

12 So that one's closed, and it's a
13 ways down here -- 119, is that where you're
14 at?

15 MR. FARVER: 118.1.

16 CHAIRMAN GRIFFON: 118.1, yes.

17 MR. HINNEFELD: That's where I took
18 the next note.

19 CHAIRMAN GRIFFON: Yes, 118.1 is
20 the next one -- is continuing to look into
21 this, and there's a note on 12/12 that says
22 what this is.

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1 MR. HINNEFELD: I think it's --

2 CHAIRMAN GRIFFON: -- hear the
3 response.

4 MR. HINNEFELD: Okay, now that --
5 that response is in what I submitted last
6 night. It quotes from a couple of technical
7 documents, one from Idaho and one from
8 Hanford. The Idaho badge at the time -- let's
9 see, that was implemented in 1958, was
10 apparently tailored after the Hanford multi
11 element dosimeter, and had both the sensitive
12 and insensitive film, and gives a pretty wide
13 range, utilization range, for the combined
14 film.

15 So I guess since -- you know, this
16 was just provided --

17 CHAIRMAN GRIFFON: Yes.

18 MR. HINNEFELD: -- and it would
19 have to be, I guess, you know, it would have
20 to be looked at.

21 I would think those documents would
22 be available on our site research data base,

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1 which you guys --

2 CHAIRMAN GRIFFON: I already -- I
3 already put the action for SC&A to review
4 these, because I think we got them late.

5 MR. FARVER: You did send them?

6 MR. HINNEFELD: They're in -- I
7 didn't send the documents. I sent the
8 response. The documents -- I mean, I can get
9 them.

10 CHAIRMAN GRIFFON: Are the -- does
11 the response include the --

12 MR. HINNEFELD: The response
13 includes the --

14 CHAIRMAN GRIFFON: The citations?

15 MR. HINNEFELD: -- the citations,
16 yes. And they should be on the site research
17 data base. Well, I guess one would probably
18 be in the Idaho, and one would be in Hanford.

19 MR. SIEBERT: One specifically does
20 have the SRBB number on it. The other one
21 apparently doesn't, the Hanford one.

22 CHAIRMAN GRIFFON: Let me just find

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1 this. Is it called the sixth --

2 MR. HINNEFELD: It's the sixth
3 case. What was my email's name?

4 CHAIRMAN GRIFFON: December -- I'm
5 looking for which one?

6 MR. HINNEFELD: It's written in the
7 -- and the response is clipped into the
8 matrix.

9 CHAIRMAN GRIFFON: You put it into
10 the matrix, okay.

11 MR. HINNEFELD: And it's a matrix
12 from -- from NIOSH, April 15th '09, is the
13 last -- is the end of the title. Starts with
14 --

15 MEMBER MUNN: It's down on page 52.

16 MR. HINNEFELD: It was on my email
17 from yesterday -- last night, and it's -- it's
18 clipped into the matrix, so --

19 MR. SIEBERT: It's in the NIOSH
20 response column.

21 MR. HINNEFELD: Yes, and I thought
22 I had made it a different color to make it

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1 stand out, but apparently I failed.

2 MEMBER MUNN: Well it's a little
3 different color, but --

4 CHAIRMAN GRIFFON: It's the April
5 15 -- okay, I got it. So I'm going to cut and
6 paste that over to the one I'm working from.

7 MR. HINNEFELD: Okay, sure, yes.

8 CHAIRMAN GRIFFON: But the
9 references are in there, and I'll put an
10 action for SC&A to --

11 MR. HINNEFELD: Yes. If you have
12 any trouble finding either one of them, just
13 let me know, and we'll pull it out and give it
14 to you.

15 CHAIRMAN GRIFFON: Give me one
16 second, I'm going to get this together. Okay,
17 so I got that action. I copied your response
18 in the working matrix, and then let's look for
19 the next item -- 118.6.

20 MEMBER MUNN: 118.6.

21 CHAIRMAN GRIFFON: Yes, this was
22 what --

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1 MR. HINNEFELD: That was an action
2 from December, I think --

3 CHAIRMAN GRIFFON: Oh, SC&A agrees
4 with NIOSH. No further action -- okay, I've
5 just got to remove the highlight there, so
6 that's done.

7 118.7, is this also closed? Yes.
8 Is that it? I think that's it, yes. That's
9 all I found. Anybody else have any others?
10 Doug?

11 MEMBER MUNN: I'm sorry, did I miss
12 what you were just saying on 18.7?

13 CHAIRMAN GRIFFON: 18.6 and seven,
14 I left the highlighting on. It was closed at
15 the March meeting. If you note down below the
16 highlighted portion, it says that no further
17 action --

18 MEMBER MUNN: Yes, right.

19 CHAIRMAN GRIFFON: Yes, so I just -
20 - I didn't take the highlighting off.

21 MEMBER MUNN: Okay.

22 CHAIRMAN GRIFFON: So that's it for

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1 the sixth matrix --

2 MEMBER MUNN: Great.

3 CHAIRMAN GRIFFON: -- yes, we only
4 have a few hanging out there, so --

5 MR. HINNEFELD: It might just be
6 that -- well, depending what do you do with
7 OTIB-60 and that one --

8 CHAIRMAN GRIFFON: well that's been
9 referred, so that's closed, yes.

10 MR. HINNEFELD: I think it's just
11 the one on the -- well, I'll provide whatever
12 I can without waiting for a meeting. I'll
13 just go ship it to all my usual addressee list
14 here, the subcommittee members, SC&A, and the
15 associated feds who I'm sure have me on quick
16 delete. Whenever they get an email from me,
17 they just delete it automatically.

18 MEMBER MUNN: Okay.

19 CHAIRMAN GRIFFON: Wait, there is a
20 quick delete?

21 MR. HINNEFELD: No, I haven't found
22 it. If you're good, there probably is. You

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1 can probably set your -- set your email so
2 that it throws away every -- you know, just
3 identify me as spam. You'll never have to
4 read this crap again.

5 MEMBER MUNN: My assistant has
6 already done that for me.

7 CHAIRMAN GRIFFON: All right.
8 Well, I think rather than start into the
9 seventh, this might be a good place to break
10 and take our lunch break and come back at
11 1:00.

12 And Wanda, I assume you'll be on
13 your way to the airport?

14 MEMBER MUNN: I will be --
15 hopefully have something in a suitcase by
16 then, and yes, I'll be on the highway.

17 CHAIRMAN GRIFFON: All right. So
18 Mike -- Mike, we're going to reconvene at one
19 if you're -- hopefully you're available?

20 MEMBER GIBSON: Yes, I'll be
21 available.

22 CHAIRMAN GRIFFON: Okay. All

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1 right, great.

2 MEMBER MUNN: Thanks, folks. See
3 you later.

4

5 (Whereupon, the above-entitled matter went off
6 the record at 11:49 a.m. and
7 resumed at 1:03 p.m.)

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A F T E R N O O N S E S S I O N

1:03 p.m.

MR. KATZ: This is Ted Katz with the Advisory Board on Radiation and Worker Health, Subcommittee on Dose Reconstruction Review, and we're just reconvening after a break for lunch.

And I just want to check on the phone lines for board members, to start with.

Who do we have? Do we have Mike?

MEMBER GIBSON: Yes, I'm here, Ted.

MR. KATZ: Good to hear you, Mike.

And by any chance do we have Dr. Poston, John Poston?

Well, how about Bob Presley?

Okay, no board members I take it, then.

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1 Do we need to check on any ORAU or
2 SC&A attendance?

3 CHAIRMAN GRIFFON: No.

4 MR. KATZ: You're not worried
5 about it? Okay.

6 CHAIRMAN GRIFFON: Ted, we've got
7 some other people on there, too.

8 MR. KATZ: Yes, we do. Is there
9 anyone on the line that wants to identify
10 themselves?

11 Okay, so let's carry on.

12 CHAIRMAN GRIFFON: Okay, we're
13 going to move into the seventh set, and do the
14 same thing we did with the sixth set,
15 hopefully as quickly.

16 We had some outstanding items, and
17 hopefully, I did the same kind of thing. If
18 everybody has the matrix, I've got the
19 highlighted actions, so starting from the top
20 there is one right away on Case Number -- or
21 Finding Number 121.1. So this remains an
22 outstanding item from NIOSH by way of the use

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1 of TIB-70 and TIB-6000.

2 MR. HINNEFELD: Yes, I've -- there
3 was --

4 CHAIRMAN GRIFFON: Yes, I think I
5 have something on that.

6 MR. HINNEFELD: Yes, I'm having a
7 little trouble getting my hands on my own
8 right now.

9 The -- well, there are a couple of
10 items here. I -- well I collected my notes
11 from -- when I wrote my notes from the last
12 meeting, I wrote notes for findings 121 and
13 122 -- 121.1 and 121.2 --

14 CHAIRMAN GRIFFON: Okay.

15 MR. HINNEFELD: -- and part of the
16 comment I think also pertains to 121.3 because
17 -- let's see, OTIB --

18 CHAIRMAN GRIFFON: Where is your
19 response? Is it in this --

20 MR. HINNEFELD: I'm just trying to
21 figure that out. I'm trying to figure out --
22 I don't know if I sent the right one.

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1 CHAIRMAN GRIFFON: Is it in the
2 matrix that you sent?

3 MR. HINNEFELD: It would have been.
4 I tried to put them in the matrix.

5 CHAIRMAN GRIFFON: Yes, I don't see
6 anything in the -- in the matrix for that one,
7 anyway.

8 DR. MAURO: Conceptually, the issue
9 has to do with an AWE facility, and it goes
10 back to, on many occasions what we see is, for
11 the residual period, many of the cases NIOSH
12 would use data collected during the FUSRAP
13 characterization program, and apply that --
14 those exposures and measures to residual
15 period exposure that may have occurred a
16 decade, two decades, sometimes three decades
17 earlier, and now -- and basically the comment
18 here is that -- well listen, you know, rather
19 than do that, which is sort of questionable,
20 you know, to use this time span -- there are
21 now tools in place, namely OTIB-70 for a
22 residual period of TBD-6000, both of which

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1 address this issue in a better way, and it
2 seems that, you know -- and that's really what
3 the comment was.

4 MR. HINNEFELD: Yes, that's the
5 nature of it, and there's a couple of tools,
6 OTIB-70 and OTIB -- and TBD-6000. One is sort
7 of -- I think sort of an externally related,
8 and one's internal --

9 DR. MAURO: No, no. Seventy is
10 specifically for residual --

11 MR. HINNEFELD: Residual, okay.

12 DR. MAURO: And it only applies to
13 AWE facilities. Six thousand is not only
14 residual but is everything.

15 MR. HINNEFELD: Okay, all right.
16 So those are -- that's two of it, and then
17 there's the third comment that the model is
18 constructed as a -- a -- a distribution model.

19 I mean, there's something that's chosen as
20 the -- the mean value with a geometric
21 standard of deviation. You know, some other
22 value was chosen as the geometric standard of

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1 deviation, and so -- and then the TBD says
2 apply this to everybody. One size fits all.

3 And the other comment was, well,
4 this person was in a -- what seems to be a
5 particularly highly exposed job. Shouldn't he
6 really get more than the full distribution,
7 you know, toward the top end of the
8 distribution rather than the full
9 distribution.

10 So that was the nature of the
11 comments.

12 Now I did get a response -- and
13 this was a cut and paste or a save error on my
14 part, because I did not save the response to
15 the file I thought I was saving at -- where I
16 intended to save it, so I probably sent you
17 one that does not have its response.

18 CHAIRMAN GRIFFON: Okay, yes, I can
19 see it in the matrix.

20 MR. HINNEFELD: Yes. And so we
21 have a note, or it appears that -- well,
22 there's a -- one reviewer, or the person who

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1 wrote the response said that the TBD-6000
2 approach, were it used for -- this is for
3 Finding 1, which is, what, re-suspension?

4 DR. MAURO: No, this is the --

5 MR. HINNEFELD: External?

6 DR. MAURO: I think this is --

7 MR. HINNEFELD: Okay. Yes, okay,
8 for external -- that TBD-6000 would result in
9 a lower dose. Now that's -- you know, someone
10 apparently has looked at that, but it doesn't
11 really walk you through the discussion or the,
12 you know --

13 This is the selection I made out of
14 TBD-6000, and this is why I reached that
15 conclusion, so that really needs to be
16 expanded on a little bit.

17 DR. MAURO: But it -- yes --

18 MR. HINNEFELD: And in fact, I
19 think -- I think that's why it's not in the
20 matrix is because when I read this, I said,
21 that doesn't quite answer it. It needs more.

22 You can't just say, well, TBD-6000 would be -

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1 -

2 DR. MAURO: Yes, but -- we're
3 dealing with TBD-6000.

4 MR. HINNEFELD: And there are
5 options in TBD-6000.

6 CHAIRMAN GRIFFON: Right.

7 DR. MAURO: The right way to do
8 this is you actually have the procedure in
9 OTIB-70, and that is you say, listen, at the
10 time, at the end of operations, we have
11 airborne data, we have external data, which
12 sort of sets an upper end of what it might be
13 at the beginning of the residual period.

14 Then you also say, somewhere down
15 the line, maybe 10 years, 20 years, 30 years
16 later, you have a whole bunch of measurements
17 taken just prior to the FUSRAP cleanup as part
18 of the characterization program. This is the
19 way OTIB-70 reads, and it makes sense.

20 So you've got an upper-end value
21 right at the beginning of the residual period,
22 and you've got an estimate before they did the

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1 cleanup as part of the characterization.
2 You've got two points. You draw a line
3 between the two points, and that is the slope
4 of the exposure that is indeed experienced,
5 whether it's external or internal, by people
6 during the residual period.

7 That makes sense, and I guarantee
8 you if you applied that --

9 CHAIRMAN GRIFFON: Well even there
10 there's some assumptions on the data.

11 DR. MAURO: Okay --

12 CHAIRMAN GRIFFON: Right, right. I
13 just circled that explanation.

14 DR. MAURO: Yes, I'm just trying to
15 conceptually and philosophically -- it is a
16 sound principle upon which to base your
17 models, your approach to the problem.

18 Whether your data is adequate to
19 support that, that's a different question, but
20 I think we have to agree that that basic
21 approach is the one that you want to embrace
22 across the board on a residual period, and it

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1 makes sense.

2 And that's what it says --

3 CHAIRMAN GRIFFON: Yes.

4 DR. MAURO: -- in TBD -- now then -
5 - you know, when you actually apply it on a
6 case-by-case basis, you run into trouble
7 sometimes, because the data aren't there to do
8 it the way you really want to do it.

9 For example, when the data aren't
10 there, you guys assume, well if we do have the
11 data for the first point but not the end
12 point, we assume one percent per year --

13 MR. HINNEFELD: Well it's faster
14 than that.

15 DR. MAURO: -- or one percent per
16 day, I'm sorry, which is -- one percent per
17 day is not the rate at which this stuff is
18 going away.

19 So there are issues on TBD-70 also.

20 Anyway, but that's what this is all about.

21 CHAIRMAN GRIFFON: Well I think we
22 have to kind of put this one on hold --

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1 MR. HINNEFELD: Yes, and actually
2 this is one I pulled out, and I've got the
3 technical documents in my briefcase, thinking
4 that I would have time to think of -- you
5 know, take some shot at this, and I haven't.

6 So this is -- let's see, this is a
7 -- well, I'm not sure if it's an OCAS or not.
8 This needs additional work. You just can't
9 be, you know --

10 CHAIRMAN GRIFFON: I think that
11 applies for one, two and three.

12 MR. HINNEFELD: And I think it
13 applies to 3-F, as well, because if I'm not
14 mistaken looking -- you had a comment -- then
15 you highlighted area on three, and three is --
16 I've got to look and see what three is real
17 quick.

18 DR. MAURO: There's no doubt that,
19 when it comes to residual period, we have a
20 standing issue on how you deal with re-
21 suspension inhalation.

22 MR. HINNEFELD: Yes.

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1 DR. MAURO: You know, we know that
2 ten to the minus six -- you know, that's --
3 time and again we run into that.

4 MR. HINNEFELD: I think -- I think
5 121.3 is -- I think that mean is during the
6 residual period, if I'm not mistaken.

7 CHAIRMAN GRIFFON: I think -- I
8 think you're right.

9 DR. MAURO: 123, this is the --

10 MR. HINNEFELD: 121.3 is
11 inappropriate data used for modeling
12 inhalation ingestion -- intake.

13 DR. MAURO: Oh, I'm looking at --

14 MR. HINNEFELD: Intake --

15 CHAIRMAN GRIFFON: Yes, I think
16 you're right.

17 MR. HINNEFELD: I think -- I think
18 it's during the residual period, so I think
19 it's very much the same. I mean, it's the
20 same kind of thing as one, with a different,
21 you know, exposure about it --

22 CHAIRMAN GRIFFON: Yes.

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1 DR. MAURO: Yes, different --

2 MR. HINNEFELD: -- if I'm not
3 mistaken.

4 CHAIRMAN GRIFFON: I think you're
5 right. I think it's correct.

6 So they're going to be put on hold,
7 all three of those, I think, Stu, just --

8 MR. HINNEFELD: Yes.

9 CHAIRMAN GRIFFON: It sounds like
10 you've looked into it, but you might have to
11 just go back to ORAU and get a better
12 explanation on -- than what you have right
13 now.

14 MR. HINNEFELD: Yes, I have -- we
15 have to expand on this explanation a little
16 bit, so --

17 CHAIRMAN GRIFFON: Okay.

18 MR. HINNEFELD: Yes, in fact, if I
19 had paid more attention to my handwritten
20 notes on my sheet here, I would have realized
21 that I don't have a check mark by that one,
22 which would indicate I didn't try to fix it.

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1 CHAIRMAN GRIFFON: All right, then
2 I'm moving down to 122.1 as the next one.

3 MR. HINNEFELD: And I believe this
4 is the same --

5 CHAIRMAN GRIFFON: Yes --

6 MR. HINNEFELD: -- 121.2, which is
7 using the full distribution --

8 CHAIRMAN GRIFFON: Full
9 distribution versus --

10 MR. HINNEFELD: -- for again what
11 seems to be a likely highly-exposed person.

12 CHAIRMAN GRIFFON: So it's the same
13 -- I mean you don't have a response on that
14 one?

15 MR. HINNEFELD: Yes, we don't have
16 anything on that.

17 CHAIRMAN GRIFFON: 122.3 --

18 MR. HINNEFELD: I didn't have
19 anything -- I didn't have a note for that.

20 DR. MAURO: This is the rod and
21 billet exposure.

22 CHAIRMAN GRIFFON: Yes.

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1 DR. MAURO: I think this guy might
2 have been a furnace operator.

3 CHAIRMAN GRIFFON: I think you're
4 right. He had a high exposure.

5 DR. MAURO: And he was only working
6 with billets.

7 CHAIRMAN GRIFFON: Yes, it was this
8 question, SC&A feels that it may not be
9 bounding for this particular worker --

10 DR. MAURO: No, this is a --

11 CHAIRMAN GRIFFON: -- because it
12 was a high -- yes.

13 MR. HINNEFELD: Oh well, isn't that
14 the same, though? I mean, 122 -- yes -- 122 -
15 -

16 CHAIRMAN GRIFFON: Same kind of --

17 MR. HINNEFELD: 122.3 is much the
18 same as 122.1. It's the same kind of thing.
19 This is a highly exposed person.

20 DR. MAURO: Yes.

21 MR. HINNEFELD: Aren't they --
22 aren't they pretty much -- I mean, it may be -

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1 - I think it's different exposure modes, or
2 something?

3 DR. MAURO: Yes. You know, if I
4 had the full case in front of me, if I
5 remember a case where the guy was a furnace
6 heater -- the furnace where you heat up the
7 billets. The billets come in, you heat them
8 up, so that they can be rolled into rods. His
9 full-time job was to work with billets --

10 MR. HINNEFELD: Right.

11 DR. MAURO: -- and I think that the
12 default method here, if I remember correctly,
13 was that there's a 50/50 between rods and
14 billets. It turns out the exposure rate from
15 billets is about twice as high as the exposure
16 rates from rods, because of the size and
17 geometry, so we felt that, as applied -- that
18 approach -- that fundamental approach, the
19 50/50 -- three and a half hours each a day, is
20 good, but not for this guy, because this guy
21 is working entirely with billets, and as a
22 result of that -- not only that, he may be

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1 working with more than one billet, because
2 right now, it's based on a single billet.

3 His external exposure rate could be
4 substantially higher than -- I think we said
5 about a factor of two higher -- or 40 percent.

6 It's coming back, 40 percent higher, because
7 of the kind of work he does.

8 And whether that's -- how important
9 that is to the -- but if 40 percent is --

10 CHAIRMAN GRIFFON: It's listed in
11 NIOSH's response, I think. It says it only
12 shifts the POC from 28.5 to 29.3, right?

13 DR. MAURO: Oh, is that right? Oh,
14 okay.

15 MR. HINNEFELD: I think we've seen
16 that one earlier.

17 DR. MAURO: I believe that.

18 CHAIRMAN GRIFFON: Right, right.

19 DR. MAURO: Bear in mind when we --

20 CHAIRMAN GRIFFON: But the question
21 could remain that -- I mean, the question
22 could remain that -- that -- I mean, the

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1 question could remain that, you know, for this
2 -- for -- you know, how is that type of
3 worker handled. I mean, in this case it
4 didn't really affect the POC. But the general
5 question still stands.

6 MR. HINNEFELD: It's a fairly
7 specific example of --

8 DR. MAURO: Yes.

9 MR. HINNEFELD: Is a one size fits
10 all appropriate?

11 DR. MAURO: Right.

12 CHAIRMAN GRIFFON: Right.

13 DR. MAURO: There are -- we've run
14 into situations where -- in fact, it went the
15 other way the last time. Remember when we
16 talked about the nurse, where they were
17 assigning a generic --

18 CHAIRMAN GRIFFON: Right.

19 DR. MAURO: -- I mean, we went the
20 other way. We said, listen, you were giving
21 this nurse exposure that no way that she could
22 get. And now we have the opposite. Now this

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1 guy is a furnace operator. He's going to be
2 on the other side of these. For the one size
3 fits all, it doesn't always work very well.

4 And I guess that's a critique that
5 is I think a little bit more intentioned. It
6 could be, wait a minute, this guy's a little
7 bit different than the average guy.

8 I don't know if you guys want to do
9 that, but that's how we see it.

10 MR. HINNEFELD: One size fits all
11 are convenient.

12 DR. MAURO: Convenient, yes.

13 MR. SIEBERT: As simple as
14 possible.

15 MR. HINNEFELD: The -- even I can
16 understand those dose models sometimes, but
17 the, the way it's constructed, the valid
18 point, I think the real point here is
19 constructed as a distribution, as if we don't
20 know exactly, we think this is a likely median
21 estimate, and we think this is a likely
22 bounding estimate for people who work there,

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1 without saying specifically, this is the most
2 -- we're going to reconstruct the most highly
3 exposed people, even though there could be
4 uncertainty in that, and you could say this is
5 what we expect, and this is what the upper
6 limit could be of the most highly exposed
7 people.

8 And just for -- so that we're --
9 because we're not confident of our ability
10 really overall to sort people into high and
11 modest, we're just going to give it to
12 everybody, which is why we gave it to the
13 nurse.

14 You know, because we're not really
15 that confident of our ability in every case.
16 And so -- so we've done that on a number of
17 occasions. Now in this case we didn't -- we
18 didn't write it that way. We said this is
19 what we believe, you know, is the dose rate.
20 We didn't really say that it's -- or provide
21 any evidence that this is likely as high as
22 even the most highly exposed person could have

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1 been exposed to --

2 CHAIRMAN GRIFFON: Right, right. I
3 think that was the question.

4 MR. HINNEFELD: -- which, it seems
5 to be it.

6 DR. MAURO: Well in your defense, I
7 will argue that the very assumption that a
8 person is going to be one foot away --

9 CHAIRMAN GRIFFON: For all of that
10 time.

11 DR. MAURO: -- in front of a
12 billet, so in other words, you're almost, in a
13 funny way, you're sort of caught between a
14 rock and a hard place. In other words, you
15 come up with a fundamental one size fits all.
16 You say we're going to apply this to
17 everybody, where they're standing one foot
18 away from the billet, and they're there for
19 seven hours a day.

20 Now right off the bat, that
21 approach itself is extremely conservative,
22 because it's unlikely anyone's going to be

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1 doing that, but that's what you're doing, so
2 therefore, that's a given.

3 Now but then you come along with a
4 person who -- that, you know, you say well
5 what do we do about this other guy who only
6 works with billets, he may be working with
7 multiple billets, and I don't know how long he
8 stays in front of it, but is it possible that
9 for him we've got to treat him special.

10 So it's -- you're in a funny spot.

11 You know, the fundamental model you use --
12 there's no doubt that that's conservative, but
13 there's also no doubt that he probably has a
14 potential for exposure that's substantially
15 higher than, say, most of the other workers.
16 And most of the other workers are probably not
17 going to get that exposure.

18 MR. HINNEFELD: Yes, I understand.

19 CHAIRMAN GRIFFON: And I think
20 that's why it was a remaining action, because
21 we wanted to see --

22 MR. HINNEFELD: Yes.

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1 CHAIRMAN GRIFFON: -- if your
2 approach left the dose reconstructor the
3 flexibility to assign a higher amount for some
4 job types or whatever.

5 MR. HINNEFELD: Well, I mean, right
6 now --

7 CHAIRMAN GRIFFON: Right now it
8 doesn't.

9 DR. MAURO: Well, in a way, you
10 know --

11 CHAIRMAN GRIFFON: I guess that's
12 why it remained, because obviously it doesn't
13 affect this particular case very much.

14 MR. HINNEFELD: And the other
15 interpretation of this is that the model is
16 constructed, even though it wasn't constructed
17 this way, but the way the numbers come out is
18 an estimate of as high as anyone could have
19 been exposed on this plant.

20 Now that's not the way it's written
21 and constructed.

22 DR. MAURO: I think that if he

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1 would have written it that way --

2 MR. HINNEFELD: If you had written
3 it that way, and you said, because we're not
4 confident of our ability to sort -- now some
5 we could probably sort. But we don't
6 necessarily feel confident of sorting all
7 these job titles, and we may not even know job
8 titles.

9 DR. MAURO: Yes.

10 MR. HINNEFELD: We're just going to
11 apply this -- we think this is as high as
12 anybody could have gotten exposed.

13 You know, I think that's an
14 acceptable approach on something like this,
15 but we didn't write the thing that way. We
16 didn't write it. We wrote it more in lines of
17 we're going to kind of homogenize the work
18 experience here. We're going to include some
19 rod exposure. We're going to include some
20 billet exposure to sort of homogenize it, and
21 so we didn't really try to write it for the
22 most highly exposed.

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1 DR. MAURO: One of the dilemmas,
2 too, is that, you know, since we're looking at
3 all of these different AWE sites, and what
4 they did at Bethlehem Steel was assume the
5 person is spending all day one foot away --
6 no, no, standing in front of an infinite slab
7 of uranium, where the dose rate at one foot is
8 two mR per hour.

9 So in other words, now we have a
10 circumstance -- and I don't know what you do
11 about this, you know, because we're talking as
12 the years progress, and you mature, and your
13 models develop, now you have a group of
14 workers that worked at Bethlehem Steel as
15 being given an external dose that is pretty
16 high.

17 CHAIRMAN GRIFFON: Yes, this equity
18 claim.

19 DR. MAURO: But now you have another
20 group that's doing jobs that are, you know,
21 but now you're getting a little more
22 sophisticated. Well, this is really a billet

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1 or a rod.

2 Well they were working with rods,
3 also. They weren't working with big slabs of
4 uranium. So then you say, well, what do you
5 do now? Is it fair that they're getting this,
6 but they're getting that? I don't know.

7 MR. HINNEFELD: Yes, and there is a
8 lot of radiation monitoring data from the
9 plants that did uranium -- or uranium metal
10 handling that, you know, so there is this
11 whole population of claimants out there who
12 are -- who handled uranium metal who are
13 monitored -- uranium metal and essentially
14 nothing else, like Fernald I'm thinking of,
15 and to a certain extent Y-12, but they're a
16 little more exotic, that were monitored and
17 handled that way.

18 And you've got this whole history
19 of how high the exposures went at those sites
20 where the metal was handled, so there's a lot
21 of things that could kind of inform an answer
22 here, I think. But anyway, I have nothing new

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1 on that -- on those findings, either, but I
2 do, starting with the next one.

3 CHAIRMAN GRIFFON: Yes, I think
4 we've all agreed that it doesn't affect this
5 particular case, but what I want to find out
6 for the resolution is, are you going to modify
7 your language in your, you know --

8 MR. HINNEFELD: I think something.
9 I think --

10 CHAIRMAN GRIFFON: That's the
11 question, and if so, how are you going to
12 modify it?

13 MR. HINNEFELD: Yes, yes.

14 CHAIRMAN GRIFFON: All right. So
15 moving on. So 122.7 --

16 MR. HINNEFELD: That has new
17 information, thank goodness.

18 CHAIRMAN GRIFFON: We've got one.
19 Is that in the matrix?

20 MR. HINNEFELD: It's in the matrix,
21 and this one I did manage to change the color
22 on this one, too. This one is sort of blue.

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1 CHAIRMAN GRIFFON: Okay.

2 MR. HINNEFELD: I guess it's blue.

3 CHAIRMAN GRIFFON: And it's in your
4 response column, right?

5 MR. HINNEFELD: It's in the
6 response column, yes.

7 MR. FARVER: We're going to have to
8 look at this.

9 DR. MAURO: Could you just give us
10 a quick --

11 MR. HINNEFELD: I'm not sure I
12 understand it. I may have just clipped it off
13 and put it in there.

14 DR. MAURO: What is the issue here?
15 Which side is this?

16 MR. HINNEFELD: It relates to some
17 HASL published data, and again, to really
18 understand the whole conversation, you've got
19 to look at the finding in the original review.

20 DR. MAURO: Yes, is this an AWE?

21 MR. HINNEFELD: This is still 122,
22 so --

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1 MR. FARVER: Simon Saw.

2 DR. MAURO: We're still on Simon
3 Saw. I know Simon Saw well.

4 MR. HINNEFELD: The reviewer
5 questions whether the assumptions used for
6 calculating thorium inhalation -- well okay,
7 you can read that.

8 And I believe -- I don't know, but
9 I think probably what happened was there was
10 some -- maybe there was a certain small set of
11 samples of thorium air monitoring, and then
12 there was a broader -- maybe more air sampling
13 during other -- during uranium operations. Is
14 that what went on?

15 MR. FARVER: Thorium inhalation
16 during the rolling operation?

17 MR. HINNEFELD: No, maybe not.
18 Maybe it was just done -- maybe it was based
19 on --

20 CHAIRMAN GRIFFON: So it was a one-
21 day study. Is that what --

22 MR. HINNEFELD: Well, that's not

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1 true. I don't know for sure.

2 DR. MAURO: Well, the -- yes --

3 MR. SIEBERT: Actually, I think it
4 is.

5 DR. MAURO: There is only one day.
6 And that was one of my comments on, when we
7 get to Simon Saw, is to see the exposure
8 matrix.

9 CHAIRMAN GRIFFON: One day.

10 MR. HINNEFELD: Okay, yes.
11 Apparently, there was one day of thorium air
12 sampling, and it was assumed to be
13 representative of all the 36 rolling days.

14 DR. MAURO: That's it.

15 CHAIRMAN GRIFFON: Okay. So -- and
16 we have as Simon's 13, and that reference is
17 on the O drive. Do you have that right there?

18 MR. HINNEFELD: It should be on the
19 O drive. It should be.

20 CHAIRMAN GRIFFON: I guess that
21 would be the only thing. I think you need to
22 look at this, but John, do you have that

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1 reference, do you know?

2 DR. MAURO: I'm sorry, I was
3 looking at -- which one is that?

4 MR. HINNEFELD: It's the HASL data,
5 Simon's 13.

6 CHAIRMAN GRIFFON: Do you have that
7 reference that they note in their response?

8 DR. MAURO: I don't know.

9 CHAIRMAN GRIFFON: Do you know how
10 the --

11 DR. MAURO: I don't know.

12 CHAIRMAN GRIFFON: You refer to it
13 as Simon's 13. If we don't, Stu, you'll make
14 it available in the -- okay.

15 So I think I'm going to put that
16 NIOSH provided a response and SC&A needs to
17 look at the response along with the HASL
18 report, right?

19 MR. FARVER: Yes.

20 CHAIRMAN GRIFFON: Sorry for the
21 delay. I just wanted to -- I'll lose track.
22 This seems to be working for me.

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1 All right, 125.1, I think he did
2 provide something for Case 125. Anyway, I
3 think I saw it.

4 MR. HINNEFELD: Yes, 125.1 is in
5 the response under the response column. It's
6 also in blue.

7 CHAIRMAN GRIFFON: Okay.

8 MR. FARVER: Here. Now, I read
9 that, so it wasn't in the --

10 MR. HINNEFELD: The finding was
11 correct. The finding was correct. The 1984
12 dose was not; it was inadvertently omitted
13 from the original case.

14 MR. FARVER: Okay.

15 CHAIRMAN GRIFFON: So NIOSH is --

16 MR. HINNEFELD: And so we've
17 apparently gone through and added all the
18 doses from the comments, you know, the various
19 comments, and rerun the POC, and it changed
20 very marginally, 34 to 35.

21 CHAIRMAN GRIFFON: Just give me a
22 few seconds to update that.

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1 And you provided the supporting
2 files?

3 MR. HINNEFELD: I think I did. I
4 think they were attached --

5 MR. SIEBERT: Yes, that -- it was
6 the honking zip file that came across last
7 night. I believe that's a technical term.

8 MR. HINNEFELD: The big honking --

9 MR. SIEBERT: Yes, the big honking.

10 CHAIRMAN GRIFFON: But I mean, I'm
11 going to say no further action on this, but
12 I'm assuming that, Doug, you'll take a glance
13 at those files.

14 MR. FARVER: Yes, I put down the
15 note to review it, but I don't think there's
16 going to be any action.

17 CHAIRMAN GRIFFON: I don't think
18 it's -- based on your POC calcs, I don't think
19 --

20 MR. FARVER: No.

21 CHAIRMAN GRIFFON: If you can take
22 it upon yourself to catch that, or to review

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1 it. I'll put it as closed, but since you have
2 provided the attachments, we should look at
3 them, right?

4 MR. HINNEFELD: They did all the
5 work.

6 MR. SIEBERT: No, just ignore that
7 one. It makes my job easier later on. I can
8 just throw anything in there.

9 CHAIRMAN GRIFFON: All right,
10 definitely review it now.

11 All right, so that one's closed
12 unless we find something strange, which is
13 doubtful.

14 All right. So 125.4 then, is this
15 -- it's not related, is it?

16 MR. HINNEFELD: Same claim,
17 different issue. It relates to positive
18 cesium, whole body counts, correct?

19 CHAIRMAN GRIFFON: Yes.

20 MR. HINNEFELD: And -- I may have
21 to have Scott help me out here. It would
22 appear that these are nominally --

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1 CHAIRMAN GRIFFON: First of all,
2 you didn't provide anything in the matrix, did
3 you?

4 MR. HINNEFELD: Yes, Matrix 125.4,
5 it's in there.

6 CHAIRMAN GRIFFON: Okay.

7 MR. HINNEFELD: The positive
8 results are I guess, what, nominally higher
9 than background, or very slightly higher than
10 the NCRP published --

11 MR. SIEBERT: Yes, the first one is
12 -- yes, rather than the -- is slightly higher
13 than the average NCRP.

14 MR. HINNEFELD: The population
15 average that NCRP would say that a person had
16 from fallout --

17 MR. SIEBERT: Right.

18 MR. HINNEFELD: -- essentially.
19 Okay, from testing fallout. And so the actual
20 -- if there's an actual intake there on top of
21 the fallout cesium, it's -- it's small enough
22 that the doses are a lot less than a millirem

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1 a year, or something.

2 MR. SIEBERT: Yes, I mean we
3 overestimated it. When we re-ran this in the
4 big honking file, we actually overestimated
5 using the highest cesium result that we had
6 for the whole employment period, and it was 30
7 millirem that we overestimated it.

8 MR. HINNEFELD: Okay, did you use
9 that highest result as the net result?

10 MR. SIEBERT: Yes, without any
11 stripping --

12 MR. HINNEFELD: Without any
13 stripping of any -- of what might be there
14 from background?

15 MR. SIEBERT: Correct.

16 MR. HINNEFELD: Okay. So I guess
17 the reason why these doses weren't included,
18 you know -- I mean, the company even says
19 they're small doses. I think the comments
20 said that. But the reason they weren't
21 included was that I guess they were judged to
22 be essentially no different than what

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1 atmospheric testing background would have led
2 those people to have.

3 MR. SIEBERT: And the DR report
4 should have probably said that?

5 MR. HINNEFELD: Yes, yes.

6 MR. FARVER: One point is that there
7 is a certain table that you go by of cesium
8 values, and if it's below, you don't consider
9 them, and if it's above, the TBD says to treat
10 that as an occupational intake.

11 And there were values that were
12 above --

13 MR. SIEBERT: Right.

14 MR. FARVER: -- that were not
15 calculated --

16 MR. HINNEFELD: Yes.

17 MR. FARVER: -- so regardless of
18 what the dose is, it was just not handled
19 properly.

20 MR. HINNEFELD: Yes. Well, if it's
21 less than one millirem we don't -- we --

22 CHAIRMAN GRIFFON: You're saying

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1 the difference between --

2 MR. SIEBERT: It could be. Yes, I
3 believe the actual -- and then Doug's right, I
4 think the total dose was three millirem.

5 MR. HINNEFELD: Okay, all right.
6 Okay, it probably should have been in there,
7 then.

8 MR. SIEBERT: It probably should
9 have been in there.

10 MR. HINNEFELD: Okay.

11 CHAIRMAN GRIFFON: Yes, but we all
12 agree it was no effect on the --

13 MEMBER CLAWSON: And Stu, help me
14 with this, because I guess I'm -- you know, as
15 we go through these dose reconstructions, and
16 we find issues like this where they weren't
17 really handled correctly, or not, or whatever,
18 we can change this one, but what are we doing
19 in the process to make sure that it doesn't
20 happen on other --

21 You know, this is really why we're
22 doing this sampling and so forth, because so

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1 many times I've seen that we've come up with
2 stuff, but how do we, you know, how do we
3 follow up to make sure that this is being done
4 on other ones?

5 MR. HINNEFELD: Well, that's a good
6 question.

7 MEMBER CLAWSON: This has always
8 bothered me on this, because we find, you
9 know, on some of them we can cover them with
10 OTIB-60, I believe it is, and so forth, but
11 when we -- when we see an issue like this, I'm
12 just wondering how we get it so that we're not
13 making this mistake.

14 MR. HINNEFELD: Well, I don't know.

15 And one of the things that makes this
16 difficult is that, if we're talking about a
17 category of a mistake like this one, which was
18 a three millirem omission, or even a 30
19 millirem omission, we're talking about things
20 that really are not going to be consequential
21 in the outcome.

22 And so to do something --

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1 CHAIRMAN GRIFFON: That might
2 result in a PER for that, right.

3 MR. HINNEFELD: Yes, yes. So to do
4 something for this, you know, for this error
5 that was seen in this dose reconstruction, you
6 have to build some sort of system that's going
7 to take work by different people, a variety of
8 people. You know, you've got the --

9 It's been captured. You know, by
10 identifying it, it's done, but then you have
11 to essentially turn it -- well, why would this
12 have happened, and how can we prevent it.
13 There's work to decide how -- how that would
14 happen. You know, it has to do that.

15 And then, from the time you take
16 the corrective action, presumably that -- that
17 corrective action will impose additional work
18 on additional people to do that.

19 Now without really saying as much
20 just, you know, right out, although I have
21 said a number of times to make the basis of
22 this, we have always aspired to concentrate on

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1 the correct outcome -- you know, the
2 probability outcome.

3 That's -- and so from our
4 standpoint -- from our standpoint as the OCAS
5 reviewers who approve a dose reconstruction,
6 we have not made it a practice to correct, or
7 to send back for a correction, an omission of
8 a few millirem, or the inclusion of a few
9 millirem that may be more than it should.

10 So when there's a -- when there's a
11 something -- you know, even if we see it, we
12 say, even if we see that and comment and send
13 it back, that puts, A, delays the answer for
14 this dose reconstruction, and throws this dose
15 reconstruction back through this whole cycle
16 for this change that makes very little
17 difference, and quite likely is within the
18 uncertainty of the total -- the final number,
19 anyway.

20 So I guess that's kind of where
21 we're coming from is we have not really
22 embarked on a program of trying to eliminate

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1 an error that represents essentially a small
2 omission like this, or a small overestimate,
3 if it were an error in the other way. We have
4 not really made that a part of our mission.

5 In our -- you know, in our review,
6 just because of our -- you know, is the effort
7 that that requires, is that worth -- you know,
8 is it worth the outcome? Is the change, the
9 improvement going to be worth that?

10 MEMBER CLAWSON: Well, and I
11 understand that. I guess I kind of looked at
12 this as another standpoint. But with this
13 one, it may not. What about the ones that
14 maybe this change is actually -- would make
15 the difference. I guess what I'm looking at -
16 - you know, I guess part of my issue and part
17 of my feeling is that the reason that we're
18 going through these is to also make sure that
19 it's being done properly, so forth, and if we
20 are seeing errors, how do we correct them so
21 that it's the best quality that we can.

22 Now this one may have been a

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1 smaller dose or so forth like that, but -- and
2 it wouldn't have made any difference in the
3 compensation of this one, but what about the
4 ones that the same thing could have possibly
5 happened that it would have?

6 MR. HINNEFELD: Well, for a case
7 where there's close to 50 percent, those
8 reviews are done far more carefully, and in
9 those instances if you're at 49 percent and
10 you see a relatively small error, you want to
11 make sure you correct it.

12 MEMBER CLAWSON: Right. Well, the
13 thing is we're not reviewing, you know, all of
14 them. That -- that was my point.

15 CHAIRMAN GRIFFON: I guess that's
16 what Brad is getting at --

17 MR. HINNEFELD: But we do.

18 CHAIRMAN GRIFFON: That system's in
19 place, right, and you have some --

20 MR. HINNEFELD: When our guys look
21 at it -- you know, first of all, everybody
22 hates to pick one out at 49 percent. When you

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1 get one of your reviews at 49 percent, you
2 say, oh, man, this one is going to take me
3 forever, you know.

4 CHAIRMAN GRIFFON: And rightly so.
5 I mean, that's the ones --

6 MR. HINNEFELD: Yes. And so those
7 are the ones where you really worry about
8 things like this.

9 CHAIRMAN GRIFFON: Yes.

10 MR. HINNEFELD: If you've got one
11 that's at 30 percent and the majority -- now
12 you probably don't even add up every number --

13 CHAIRMAN GRIFFON: Right.

14 MR. HINNEFELD: -- you know, to
15 make sure that --

16 CHAIRMAN GRIFFON: But there's also
17 other -- other -- I mean, part of the reason
18 we built this review system this way -- we're
19 only reviewing a sampling and part of -- I'm
20 not sure people pay attention to this as much,
21 but I think we have as we've gone on, is this
22 notion of the case finding versus the broad

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1 finding, and I've sort of ended up being the
2 one characterizing those, but we always
3 discuss them, and I think we've had a number
4 of those like the dose conversion factors and
5 things like that --

6 MR. HINNEFELD: Yes, they've been
7 broad findings.

8 CHAIRMAN GRIFFON: Yes, they end up
9 being broadly applied, and then you end up --
10 you know, they may result in a PER, so there's
11 a number of mechanisms that might kick in --

12 MR. HINNEFELD: Yes.

13 CHAIRMAN GRIFFON: -- you know.

14 DR. MAURO: I think that there is a
15 way to deal with this problem. This is a good
16 example.

17 Here you are, you have a dose
18 reconstructor going through a process. He
19 knows that in the guidelines if you're above
20 one picocurie, whatever the cesium number is,
21 if you see it more than that that means it's
22 above what we sort of agreed it might be, due

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1 to occupational, as opposed to fallout.

2 But at the same time you say, I
3 know this is not going to change anything. I
4 mean, I'd hate to take that away from this
5 guy, so all he's got to do is say -- say that.

6 Say, listen, I realize this is above it, but
7 I'm not going to go through the process of
8 going through all the calculations because --
9 so I'm just going to disregard it.

10 You've done it in other places
11 where you've said that, you know -- I've seen
12 it. For example, very often you would just
13 disregard submersion of -- and uranium
14 airborne for particulate for a guy who was an
15 AWE worker. Why? Because you know that that
16 dose contribution is going to be very, very
17 small, maybe above one milligram a year. I
18 understand it was below one milligram a year,
19 and that's the end of it.

20 But even if it's above and you know
21 where this guy's coming out, it would be --
22 I'd hate to force someone to do a silly

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1 calculation when it doesn't have to be done.
2 But I think at the same time to go back to
3 transparency --

4 CHAIRMAN GRIFFON: Well, let me
5 turn that question around --

6 DR. MAURO: Yes.

7 CHAIRMAN GRIFFON: -- to your own
8 procedures. Of course, you do -- I mean, is
9 it prescriptive to say that anything over
10 millirem should be included?

11 MR. HINNEFELD: What is the current
12 --

13 CHAIRMAN GRIFFON: I don't know.

14 MR. SIEBERT: I don't recall it
15 specifically saying a one millirem --

16 DR. MAURO: Unless -- unless you
17 walk away from it.

18 CHAIRMAN GRIFFON: I know. I've
19 heard that discussion, but I don't know where
20 it's documented.

21 MR. SIEBERT: It's something we've
22 talked about numerous times, and they think

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1 it's understood because IREP only goes out to
2 one millirem.

3 DR. MAURO: So you --

4 CHAIRMAN GRIFFON: Right, right,
5 right.

6 MR. FARVER: But there's, you know,
7 a couple of issues with that. Number one,
8 you're not going to know it's one millirem
9 unless you're going to do the calculation,
10 even if it's just some bounding thing, okay,
11 you're not going to know that.

12 The second issue, the DR report
13 said that during this time period, they had
14 three whole body counts, and there were no
15 positive samples. All three were positive:
16 potassium, sodium, and zinc.

17 So, it's incorrect in the DR report
18 --

19 CHAIRMAN GRIFFON: Yes.

20 MR. FARVER: The next issue is --
21 your peer review check list specifically asks
22 all positive bioassay samples considered --

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1 yes, no, or not applicable. It should have
2 been caught there.

3 A lot of times you have an Excel
4 file that's put out what's called prep --
5 where it has all the external and internal
6 data in there, and sometimes it's flagged if
7 it's above MDA or body count, or lung count.
8 I've seen that before.

9 You know, they'll have the result,
10 plus they'll have the MDAs along side of it,
11 and it's very easy to tell if something's
12 exceeding the MDA, whether it's a positive
13 count or not.

14 So there are some ways to catch it.
15 It's just you get caught. It is not just
16 that it's less than a millirem, it's that the
17 DR is incorrect and the peer review should at
18 least have a note somewhere -- and it may --
19 saying that, you know, no, they weren't all
20 considered, but down in the comments you could
21 put: but it didn't matter. But I don't know.

22 MR. KATZ: Just from John Demming's

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1 perspective, I mean the question you ask
2 yourself is, is this a systems problem or is
3 this sort of a random number of errors, and if
4 it's a random number of errors that have
5 resulted in the situation, you generally don't
6 go in and monkey with the machinery.

7 But if it's a systems problem,
8 that's when you would make a change. And so,
9 I mean, I think that's the way you need to
10 think about these, isn't it. Do we have a
11 systems problem, or is it just that it's a bad
12 --

13 CHAIRMAN GRIFFON: One DR.

14 MR. KATZ: -- or a bunch of errors
15 came together and produced this -- individual
16 errors.

17 MEMBER CLAWSON: Well, and I
18 understand what you're saying, Ted, but we're
19 sampling basically what -- one percent?

20 MR. KATZ: Right.

21 CHAIRMAN GRIFFON: Well, two and a
22 half eventually, is what we're shooting for.

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1 MR. FARVER: This one was kind of
2 interesting to me because there was several
3 different errors in it and stuff like that.

4 I've always looked at this as if we
5 would come back or somebody would come back
6 and look at this without all of this matrix or
7 anything else like that, would they be able to
8 figure how and what was done, and stuff like
9 that. And I don't see that level of detail, I
10 guess, coming back into it, because so many
11 times in our dose reconstruction reviews and
12 so forth we find small errors, and I can
13 understand that, and a lot of it has been --
14 it wouldn't have made any difference.

15 Just somehow I guess -- maybe I was
16 looking at, and I know it's probably not a
17 procedure to do it or whatever -- just so that
18 people knew that we did this when we change
19 the POC because of this, or something like
20 that.

21 I'm just looking at this also from
22 a historical -- try to come back and look at

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1 this.

2 CHAIRMAN GRIFFON: Yes, and I agree
3 with Doug that, I think, the bigger story here
4 in this case is there's other things in it.
5 If we start to see a trend in those, that's a
6 problem, you know. That's what we --

7 MR. FARVER: Well, I've got to tell
8 you what I just heard.

9 CHAIRMAN GRIFFON: I mean, if you
10 know that it's not a big deal that it was left
11 out, but the fact that it was missed on peer
12 review -- yes.

13 DR. MAURO: I thought it was just
14 maybe something that said I'm not going to
15 bother you with this, but, no -- there's --

16 CHAIRMAN GRIFFON: Right. Yes,
17 that's right, that brought us back to the meat
18 of the --

19 DR. MAURO: Thanks.

20 CHAIRMAN GRIFFON: That's sometimes
21 what the problem is from working with the
22 matrices, because you don't remember exactly -

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1 -

2 MR. FARVER: Well, that's why I try
3 to pull up the cases, because I don't remember
4 them.

5 CHAIRMAN GRIFFON: Nonetheless, I
6 think NIOSH is in agreement in this case, so
7 that it probably should have been assigned,
8 right, and that would be the end --

9 MR. HINNEFELD: Yes, yes.

10 DR. MAURO: I hate to do this, but
11 I think that Ted hit the nail on the head
12 though. Is there anything about this case
13 that would be indicative in the system file?
14 That's really what we're asking.

15 CHAIRMAN GRIFFON: Well, you can't
16 find out from one case.

17 DR. MAURO: You can't find out from
18 one case --

19 CHAIRMAN GRIFFON: That's what I'm
20 saying.

21 DR. MAURO: -- but there was --

22 CHAIRMAN GRIFFON: It doesn't mean

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1 we're not going to try.

2 DR. MAURO: But through the system
3 it was self-evident, at least to you, that,
4 listen, they have these positive hits of three
5 radionuclides, and every step in the process -
6 -

7 CHAIRMAN GRIFFON: Right.

8 DR. MAURO: -- denied that that
9 occurred. It said, no, it's okay. In other
10 words, why would -- how could something like
11 that happen? I guess, why did it come to you
12 for you to pick it up?

13 MEMBER CLAWSON: And looking at
14 this down from another standpoint, if we do
15 have a lack in the quality assurance or
16 whatever or there's been a glitch or something
17 like this, this is the opportunity to be able
18 to go back and say to the people that are
19 doing this, these are the things that have
20 been seen.

21 We need to focus more in on this.
22 If they need to change a process or a

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1 procedure or whatever else, then that's
2 different. Or what -- we've got to look at
3 the quality assurance.

4 DR. MAURO: I would have taken it a
5 step further. Even though we're operating as
6 an independent auditing TBD work group, what
7 I'm hearing, if I was sitting outside, I would
8 say I want to know why that happened, and I
9 would -- and I would have an action item that
10 would go back and see where in the process did
11 it break down that we didn't catch it, and why
12 did that happen. Is there a systematic
13 problem or just something that, you know, I
14 don't know -- or was done on purpose. Or was
15 a judgment made, no, this is not going to
16 change anything and I'm going to let it go.

17 Then at least we'd know that it was
18 done consciously and deliberately, and there's
19 reasons for it, as opposed to no one was
20 watching the store.

21 MEMBER CLAWSON: Right, because
22 we've -- and I hear so many times that our

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1 quality assurance on this -- we have this
2 check, this check, this check, but now all of
3 a sudden we're pulling one of these up.

4 And granted, Stu, I'm not
5 criticizing or anything else like that because
6 I think you do a marvelous job, but the thing
7 is I see a glitch here that we may be -- may
8 want to review, just to call a process of
9 this, to be able to -- to see maybe where we
10 stubbed our toe or whatever of how did this
11 happen, and do we have something to stop it
12 from happening, because that's been my whole
13 question is -- as we find these small ones --
14 is there a bigger issue that's lurking out
15 there, and that's --

16 CHAIRMAN GRIFFON: Well, yes. I
17 guess that's my -- I don't disagree with what
18 you said, John. The question I have is, well,
19 just to step that through a little bit. I
20 mean, is it a -- is that -- you know, to ask
21 NIOSH to look back at that, I'm imagining that
22 if you went to the peer reviewer they're going

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1 to say, oh yes, I looked at it, but I
2 considered it a minuscule difference.

3 I can give you the answers now, if
4 you want them, you know, so where are we going
5 to learn that exercise? I'm not sure we would
6 gain a lot from that exercise.

7 On the other hand, in my matrix I
8 think I ranked this as a -- one of these low-
9 high items, you know, low case relevance but
10 high --

11 DR. MAURO: Yes.

12 CHAIRMAN GRIFFON: -- high overall
13 relevance, and that should get the attention
14 of our subcommittee and the whole board, and
15 then if we start to have a lot of these
16 findings related to quality or questions about
17 quality or peer review of cases, then that's
18 what Ted was getting into. Then we sort of
19 see -- looking for these trends, you know?

20 I don't know that we -- we start
21 chasing down for one -- I don't know. I don't
22 know if we start chasing it down for one case.

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1 MR. HINNEFELD: Well, realize what
2 you're doing here. You're defining the
3 acceptable quality for dose reconstruction,
4 because you're saying that these errors
5 essentially are significant enough that -- not
6 that the dose reconstruction is unacceptable,
7 but we expect the program not to make these
8 errors.

9 CHAIRMAN GRIFFON: Right, right,
10 right.

11 MR. HINNEFELD: I don't know if we
12 ever had that objective, to try to avoid an
13 error of a few millirems. I don't know that
14 we've ever had that as a program objective, to
15 say that --

16 CHAIRMAN GRIFFON: But that's not
17 the error --

18 DR. MAURO: It's procedure.
19 There's a procedure. Yes, there's a
20 procedure.

21 CHAIRMAN GRIFFON: It's the error
22 of -- these other errors, you know, that I

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1 think are more concerning to me anyway, to
2 Doug --

3 MR. SIEBERT: Knowing this case and
4 like you said, going back it's hard to
5 reconstruct what somebody was thinking --

6 CHAIRMAN GRIFFON: Right.

7 MR. SIEBERT: But knowing the case
8 and knowing who did it, my guess is it
9 probably was considered. Just like we were
10 saying, it's barely over the NCRP value. It's
11 going to give very little dose. He forgot to
12 write it in the dose reconstruction and
13 considered that and probably was -- he didn't
14 change the template language to say there were
15 no positives. That's my initial guess.

16 MR. FARVER: But whoever reviewed
17 it made the mistake -- the same mistake.

18 CHAIRMAN GRIFFON: Yes, same
19 mistake, right.

20 MR. FARVER: And they also did the
21 same thing for the next finding, 125.5, where
22 it was the wrong absorption type.

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1 MR. SIEBERT: In the text?

2 MR. FARVER: In the text, which
3 also should have been caught according to the
4 --

5 CHAIRMAN GRIFFON: Yes, so it looks
6 like a case of -- maybe a little bit -- I
7 mean, I can imagine that you get -- you know,
8 that's the question -- is there a trend here,
9 or is it just an isolated incident where you
10 saw a low POC, you saw a fairly
11 straightforward -- you know, and the peer
12 reviewer was a little lax maybe in this case.
13 Or is that one or is it a trend? I think
14 that's what we want to look out for, I don't
15 know.

16 MR. KATZ: I don't know that's at -
17 - on this one case you can't say this is a
18 high impact or anything like that, potential
19 impact. I think you just want to track and
20 see, is there more evidence of this kind, at
21 this point?

22 CHAIRMAN GRIFFON: No, when it's --

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1 when I've given a high ranking it's because
2 this -- the nature of the finding could have
3 effects on more than this case -- you know,
4 broader impact.

5 MR. KATZ: The finding being?

6 CHAIRMAN GRIFFON: The finding
7 related to quality, right. So --

8 But anyway that's where I -- I
9 would not -- I don't think I'm -- I'm not
10 leaning toward having a NIOSH action to go
11 back and investigate this case to see why this
12 happened. I'm more interested as we go
13 forward, do we see more of these, you know?

14 At least that's my feeling right
15 now.

16 MEMBER CLAWSON: Yes, that's -- and
17 I guess I'd even go a little bit step further.

18 I guess that in the processes that I'm used
19 to, when we kind of have an audit like this --
20 and they may not be significant issues or
21 anything else like that -- but it's always
22 portrayed back to us: these are some small

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1 things we saw. They're not -- I guess, what
2 is the process back to you guys? I just want
3 to make sure, you know, that it is addressed,
4 that they may be minor items, and stuff like
5 that, but we are -- we are seeing these things
6 and maybe be able to say, you know, we need to
7 look at maybe our quality assurance and make
8 sure that we try to catch these things.

9 I guess I was looking kind of also
10 too of the feedback to make sure --

11 CHAIRMAN GRIFFON: And that's -- we
12 have the opportunity to convey that to NIOSH
13 in our recommendations or in our reports to
14 the Secretary. You know, if we start to see
15 those kinds of trends I think we -- we write
16 that sort of thing out and say, you know --

17 DR. MAURO: It's just a matter of -
18 -

19 CHAIRMAN GRIFFON: I mean, my
20 concern about having an action for this
21 particular case would be that, you know,
22 basically what Scott said. I mean, it's going

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1 to be people trying to remember what they did
2 and likely to say, I think this is probably
3 what happened, you know.

4 And how useful is that going to be,
5 you know.

6 DR. MAURO: I think that NIOSH has
7 an obligation. When a judgment is made and it
8 should be given to the team to make a decision
9 -- a judgment. In this particular case, I'm
10 not going to follow the procedure because it
11 doesn't make sense to follow because I know
12 it's not --

13 CHAIRMAN GRIFFON: But that should
14 be documented.

15 DR. MAURO: And that should be
16 documented. That's it.

17 But right now there is no way for
18 us to know whether that was what was done, or
19 there's a breakdown of QA. We just don't
20 know.

21 CHAIRMAN GRIFFON: Yes. But I
22 agree with Doug where, you know, your peer

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1 reviewer came in, you should have at least
2 checked it off and said, you know, it looks
3 like this will be a low dose. Is this why you
4 didn't include it?

5 DR. MAURO: Yes.

6 CHAIRMAN GRIFFON: And then it
7 would have closed the circle completely, you
8 know? So that's the question.

9 MEMBER CLAWSON: This comes back to
10 --

11 CHAIRMAN GRIFFON: I think we've
12 beat this issue around enough, yes.

13 MEMBER CLAWSON: But this also
14 comes back to your earlier comment earlier
15 today of kind of keeping track of how they --
16 how they did with those process of -- you
17 know, the process of --

18 CHAIRMAN GRIFFON: Right, an
19 unambiguous -- yes, yes.

20 So -- and, Doug, I guess we've got
21 one more of these. I didn't realize that --
22 something similar to this, but for now I

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1 included that NIOSH is in agreement, but I
2 don't have any further action on this
3 particular case.

4 But like I said, it doesn't mean
5 that it's lost to our overall assessment. I
6 mean, we understand that the issue's out
7 there. That's my feeling. I'm not at this
8 point ready to make an action out of, you
9 know, going back to --

10 MEMBER CLAWSON: Well, and I
11 wouldn't know what the action would be.

12 CHAIRMAN GRIFFON: That's what I
13 mean.

14 DR. MAURO: Yes.

15 CHAIRMAN GRIFFON: That's what I
16 mean. I'm not sure to what end, you know --
17 or John was bringing that up. That's why I
18 said, you know, to have NIOSH go back and
19 investigate this. I don't think it's fruitful
20 at this point.

21 All right, I think we have that
22 issue.

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1 MR. FARVER: And if you're the
2 employee and you get this report you're going
3 to say, my gosh, I know I had positive
4 bioassays --

5 CHAIRMAN GRIFFON: Yes.

6 MR. FARVER: You know, it's just
7 not good all the way around.

8 CHAIRMAN GRIFFON: Well, I agree, I
9 agree. So we got the point.

10 Okay, let's move on to 125.5,
11 especially if it's there -- the similar thing
12 --

13 MR. FARVER: Well, that's been
14 closed.

15 MR. HINNEFELD: Well, that was
16 supposed to be closed.

17 CHAIRMAN GRIFFON: It's been
18 closed.

19 MR. FARVER: It was.

20 MR. HINNEFELD: It was the same
21 thing.

22 MR. FARVER: Same thing.

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1 CHAIRMAN GRIFFON: Okay. It was a
2 quality product, so you already captured that
3 in Resolution 2. All right.

4 And I am down to 125.9.

5 MR. FARVER: 125.6.

6 DR. MAURO: Yes, what happened to
7 six?

8 MR. HINNEFELD: I had it as point
9 six.

10 CHAIRMAN GRIFFON: Sorry.

11 MR. FARVER: Stu added some there.

12 CHAIRMAN GRIFFON: Okay. Okay, I
13 just -- I didn't have it highlighted, that's
14 why, okay.

15 The remaining question is
16 documenting what approach was used, I guess.

17 MR. HINNEFELD: Yes.

18 CHAIRMAN GRIFFON: And then I say
19 no further action.

20 MR. HINNEFELD: For 125.6, the note
21 I took was when there is information -- like
22 in this case there was -- a TBD gave you a

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1 certain year range for a particular practice,
2 and it was subsequently determined that that
3 range should have included one more year.

4 So prior to -- so my note was prior
5 to revision of the TBD, how is that
6 information captured and shared with dose
7 reconstructors, and that's what our response
8 speaks to.

9 MR. FARVER: Right. This is one of
10 these cases where it wasn't -- the information
11 was not in the document that was referenced in
12 the DR.

13 MR. HINNEFELD: Yes.

14 MR. FARVER: It was an in-between
15 TBD type issue, so when we go back and look at
16 the next rev of the TBD, yes, they followed
17 that.

18 CHAIRMAN GRIFFON: I see.

19 MR. FARVER: I guess this goes back
20 to your -- your DR guidance issues.

21 CHAIRMAN GRIFFON: Yes. So do we
22 have a bottom line on this one, then?

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1 MR. FARVER: I mean, it is what
2 they said. It was in the next rev of the TBD.
3 It does follow the current guidance.

4 CHAIRMAN GRIFFON: It does follow
5 the current guidance. It just wasn't -- there
6 was nothing at that time --

7 MR. FARVER: There was nothing in
8 the TBD that was referenced. It did not
9 follow that guideline.

10 CHAIRMAN GRIFFON: So this could
11 have been a case of that in-between DR
12 guidance --

13 MR. FARVER: Yes.

14 MR. HINNEFELD: Apparently, there
15 was one.

16 MR. SIEBERT: Actually, yes it is,
17 because I was able to track down the Hanford -
18 -

19 MR. FARVER: Right.

20 MR. SIEBERT: -- guidance that was
21 in place at that time, and I put a copy in
22 there, and it does specify --

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1 CHAIRMAN GRIFFON: You did put a
2 copy in there?

3 MR. HINNEFELD: I think I sent
4 that.

5 MR. SIEBERT: Yes, that did come
6 across last night, and, yes, it does -- it
7 does specify that for that year you used a 44
8 to 46 value. And that's a good example of
9 something that is good for us to have. I
10 agree.

11 CHAIRMAN GRIFFON: Yes.

12 MS. BEHLING: This is Kathy
13 Behling. Just for one second. Okay, this is
14 one that Stu sent and it's SC&A 125.6 support
15 document, and what was included here, as we've
16 been talking so much about today, is what
17 reminds me of a DR guideline. I believe
18 that's what you could call this, and this is
19 why, I guess, we've been pushing to say this
20 would be something that would be such a useful
21 tool to have in the case files.

22 I don't know if you all have that

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1 open or if you can view that particular
2 document, but would you agree, Stu, that this
3 would be considered a DR guideline?

4 MR. HINNEFELD: Yes, I believe if
5 there were -- I mean, this one -- I think this
6 specific one has elapsed because the TBD has
7 been revised, but things like this would be
8 what I intend to tell ORAU to use. You know,
9 if there's one that pertains to a cit and
10 there are dose reconstructions from that cit -
11 -

12 CHAIRMAN GRIFFON: To include in
13 the file.

14 MR. HINNEFELD: Just stick it in
15 the file. You don't have to -- if you don't
16 use, no matter if you don't refer to it, you
17 don't use it, if it doesn't even apply, it
18 doesn't matter.

19 MS. BEHLING: Right.

20 MR. HINNEFELD: Stick it in the
21 file.

22 MS. BEHLING: And not only is this

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1 invaluable to the auditors, but it's
2 invaluable to, like we've been talking, years
3 from now --

4 MR. HINNEFELD: Right.

5 MS. BEHLING: -- if we ever go back
6 to this, you'll know precisely what was done.

7 CHAIRMAN GRIFFON: Yes. One
8 second. Now 125.9 is the next one, right?

9 MEMBER CLAWSON: Yes.

10 MR. HINNEFELD: I didn't really
11 have anything. We were hoping to get a little
12 more clarity about our action here, because I
13 failed to make any notes on this last time.

14 CHAIRMAN GRIFFON: Yes.

15 MR. HINNEFELD: It was one of the
16 highlighted items. I just didn't have any
17 notes, and I couldn't recall what the
18 discussion was.

19 MR. FARVER: Okay, the -- it looks
20 like the DOE records indicate this employee
21 was involved in four incidents. Three in '57
22 and one in '61.

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1 In three of the incidents it said
2 bioassay requests. For example, potential
3 fission product, uranium and plutonium
4 inhalations, positive nasal smears. Bioassay
5 requested on two dates.

6 Well, these dates don't match up to
7 the bioassay data, and also the write-up in
8 the -- well, I guess that write-up refers to
9 the CATI report, not the DOE record.

10 The DR does talk about some
11 instances in the DOE files of contamination
12 events, but since the person was being
13 monitored for internal and external, well they
14 should have been taken -- should have been
15 included with the bioassay data.

16 But I don't believe the dates of
17 the incidents correspond with the bioassay
18 data.

19 CHAIRMAN GRIFFON: So that's the
20 question?

21 MR. FARVER: Yes.

22 CHAIRMAN GRIFFON: So the bioassay

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1 request forms related to the incidents do not
2 match the bioassay data, and NIOSH was going
3 to look into that --

4 MR. HINNEFELD: Well, we -- I
5 couldn't remember. I couldn't remember what
6 to do on this, so I didn't take --

7 CHAIRMAN GRIFFON: No, no, no,
8 right. I mean, that was the clarification for
9 next time, right? Was that what we're after?

10 MR. FARVER: Yes.

11 MR. HINNEFELD: Okay, so this is an
12 instance where we have -- you say it's a DOE
13 record that describes the incident --

14 MR. FARVER: Right.

15 MR. HINNEFELD: -- and this
16 person's is set for bioassay, or whatever.

17 MR. FARVER: It's either written on
18 there or checked --

19 MR. HINNEFELD: Yes.

20 MR. FARVER: -- and I forget how it
21 is.

22 MR. HINNEFELD: And so there's no

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1 bioassay approximating that date --

2 CHAIRMAN GRIFFON: Around that time
3 period.

4 MR. HINNEFELD: -- around that time
5 period, or at least from that time period, or
6 at least not from that point later. And so
7 what happened to those bioassay samples and
8 how do we know we got them, or why didn't we
9 get them?

10 CHAIRMAN GRIFFON: Right.

11 MR. HINNEFELD: Should we, you
12 know, make another attempt? Our additional
13 attempts back for data have largely been
14 fruitless, although it doesn't mean we
15 shouldn't go back and ask.

16 I think -- what would an
17 explanation like this be, that since this
18 person was on a bioassay program and didn't --
19 apparently we don't have an incident sample
20 from these incidents but we do have a routine
21 sampling regimen, it would seem to me that an
22 intake, an acute intake associated with this

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1 event, could be matched up with later bioassay
2 --

3 CHAIRMAN GRIFFON: Right.

4 MR. HINNEFELD: -- and you could
5 compare what does that -- you know, how big
6 could this event have been -- with the
7 subsequent bioassay date, and how does that
8 compare with what we assign, because we
9 probably used a chronic if we didn't have any
10 positives or something. How does that compare
11 with a chronic?

12 So that could be it.

13 CHAIRMAN GRIFFON: And I think you
14 see, looking at the 12/08 action, if you look
15 at that that's all those things you're saying.
16 Was all the data obtained?

17 Why wasn't it picked up in peer
18 review? That's another standing question
19 here. And then is the chronic bounding, and
20 if you can sort of demonstrate that that the
21 chronic is bounding, then I think that would,
22 you know --

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1 MR. HINNEFELD: Yes.

2 CHAIRMAN GRIFFON: I think that
3 would, you know. Yes, we couldn't find the
4 incident data; however, you know --

5 MR. HINNEFELD: Yes.

6 CHAIRMAN GRIFFON: -- these dates
7 and looked at the data and, you know.

8 DR. MAURO: This is a recurring
9 theme, and if I understand what we have here
10 is, yes, that's correct. There is this
11 misalignment, but it doesn't really matter.
12 The answer is: well, it doesn't really matter
13 because it probably was because of -- he was
14 on a routine bioassay.

15 All of that answers why it's okay
16 that that wasn't done. It leads us right back
17 to what we were talking about before:
18 transparency, documentation, archiving, the
19 four processes that went into it. So I guess,
20 you know, we're hitting this over and over
21 again.

22 CHAIRMAN GRIFFON: Well, but the

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1 other thing on this one -- I agree with you,
2 John, but the other part -- and I'm not that
3 familiar with this case, so I might be
4 speaking out of turn here, but I guess the
5 question I would have also is are the
6 incidents related to the similar nuclides that
7 are involved in the chronic -- or the routine
8 bioassay.

9 DR. MAURO: Right.

10 CHAIRMAN GRIFFON: The incidents
11 were contained in something else.

12 DR. MAURO: Yes, well, one was
13 uranium and one was plutonium.

14 CHAIRMAN GRIFFON: Right, and then
15 you're back at square one. And I don't know,
16 I have been on sites where incident data is
17 sort of kept separate from routine bioassay
18 logs and stuff, so it may be that there is
19 some missing chunk of data. It could be
20 across the board for a number of employees,
21 not just, you know --

22 I think that there's some other

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1 questions here.

2 DR. MAURO: You're absolutely
3 right.

4 MEMBER CLAWSON: Doug, do you have
5 this one? Was this the Nevada Test Site?

6 CHAIRMAN GRIFFON: Hanford.

7 MEMBER CLAWSON: I thought I saw
8 some NTS stuff on here. Okay.

9 CHAIRMAN GRIFFON: All right. So
10 --

11 MR. HINNEFELD: Okay, that's more
12 clear. At least I remembered to take some
13 notes this time.

14 CHAIRMAN GRIFFON: But I think --
15 like you said, Stu, it may be what you come
16 back with isn't -- isn't -- isn't the data
17 itself -- but the fact that later data, you
18 know, considering the dates of the incidents
19 and the matrix incidents, we clearly show we
20 come down -- that kind of, you know. So that
21 may be your response.

22 MR. HINNEFELD: Well, we've got

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1 some people on the project who are pretty
2 smart about Hanford and so, you know, if the
3 incident data would not have been captured --

4 CHAIRMAN GRIFFON: Right, they
5 should know that.

6 MR. HINNEFELD: -- in the record,
7 you would think that they would know that.

8 CHAIRMAN GRIFFON: Yes, that's
9 true.

10 MS. BEHLING: I believe this
11 individual did work occasionally at the Nevada
12 Test Site, also.

13 CHAIRMAN GRIFFON: Oh, really?

14 MEMBER CLAWSON: I thought I saw
15 that on there, but that's been one of the
16 questions of is -- especially being on the
17 Nevada Test Site, Savannah River, so forth,
18 what I've run into is the home place says that
19 they're being -- say it was Hanford, well,
20 Nevada Test Site actually monitors them while
21 they're down there, and Nevada Test Site says,
22 no, they're not our responsibility. They're

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1 Hanford's site.

2 So there has been -- as I have seen
3 there's been a disconnect on where the data
4 went.

5 CHAIRMAN GRIFFON: That would a
6 complicating factor.

7 MEMBER CLAWSON: It's a
8 complicating factor in who is actually
9 responsible for them, but they both point
10 fingers in the opposite direction. There was
11 data taken, but what happened and where did it
12 go?

13 MR. HINNEFELD: Well, the incident
14 file we have -- the incident's from Hanford?
15 I mean, that's usually the site that gives us
16 an incident report in the exposure history.
17 You know, normally Hanford does that. I don't
18 know that NTS does that.

19 CHAIRMAN GRIFFON: Nevada didn't
20 have --

21 MR. HINNEFELD: Yes.

22 CHAIRMAN GRIFFON: Anyway, I won't

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1 go there. I'll save that for next week.

2 MEMBER CLAWSON: But I'm glad this
3 came up because this had been a reoccurring
4 thing that we've seen similar things like
5 this, but several different sites, especially
6 where they were going out and coming back and
7 so forth like that.

8 CHAIRMAN GRIFFON: Okay, I think
9 that -- that completes 125, and I'm going to
10 propose a -- we take a 10-minute -- 10-minute
11 break, comfort break, maybe turn the heat down
12 in here.

13 MR. KATZ: I feel it. It's a
14 little warm is right. Okay, so I'm just
15 putting the phone on mute. I won't disconnect
16 the line.

17 (Whereupon, the above-entitled matter went off
18 the record at 2:10 p.m. and resumed
19 at 2:23 p.m.)

20 MR. KATZ: All right. Hello, we're
21 back. We're back on the phone.

22 CHAIRMAN GRIFFON: Okay, we're back

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1 live in the Cincinnati Airport Hotel.

2 MR. KATZ: Mike, Mike, are you with
3 us?

4 MEMBER GIBSON: Yes, I'm still
5 here, Ted.

6 MR. KATZ: Thanks, Mike.

7 CHAIRMAN GRIFFON: All right, Mike,
8 thanks for hanging in there, Mike. It's
9 exciting material -- we do get through the
10 details, this is good.

11 We're on Case 126, although I have
12 to find the next one that we really -- 126.2
13 has a follow-up item. This is NIOSH to verify
14 based on work history that OTIB-2 is
15 appropriate and the certainty that it is
16 bounding.

17 MR. HINNEFELD: Well, I sent a 126
18 on --

19 CHAIRMAN GRIFFON: So one case
20 finding went to 126.2. Did you sent something
21 for 126?

22 MR. FARVER: Yes, that's what file

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1 --

2 MR. HINNEFELD: Yes, I sent it last
3 night. It was on the part two email, so in
4 set response is part of two.

5 MR. FARVER: I haven't looked at
6 it.

7 MR. HINNEFELD: There's a 126 zip.

8 CHAIRMAN GRIFFON: Can maybe you
9 just present it and then -- SC&A hasn't had a
10 chance to look at it, but at least maybe you
11 can give us an overview.

12 MR. SIEBERT: Wait a second, let me
13 finish the email that I'm already doing.

14 CHAIRMAN GRIFFON: The zip only has
15 about 12 files in it, right? More than that?

16 MR. SIEBERT: Okay, the email file
17 is on the way to your desk.

18 MR. FARVER: The real one?

19 MR. SIEBERT: It's the real one,
20 unless I sent the wrong one. Which one are we
21 looking at now?

22 CHAIRMAN GRIFFON: 126.2, it's a

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1 zip file that was sent last night.

2 MR. SIEBERT: Okay, that's what
3 this is. What's in the zip file are all the -
4 - all the background files to demonstrate that
5 if we had assessed the internal based on his
6 actual data, it's less than what we assigned
7 under OTIB-2.

8 CHAIRMAN GRIFFON: Right.

9 MR. SIEBERT: That's -- I mean,
10 that's all --

11 CHAIRMAN GRIFFON: That's what's
12 there, right? Yes. Really, we just need to
13 give SC&A time to --

14 MR. SIEBERT: Right.

15 CHAIRMAN GRIFFON: I don't want to
16 do that live, you know. Yes. Doug, agree?

17 MR. FARVER: Yes.

18 CHAIRMAN GRIFFON: I thought you'd
19 agree with that.

20 MR. FARVER: But that was just a
21 question, right -- whether it's bounding or
22 not?

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1 CHAIRMAN GRIFFON: Right.

2 MR. SIEBERT: And that's all that's
3 demonstrating in this.

4 CHAIRMAN GRIFFON: So I'm just
5 going to put NIOSH provided supporting files
6 and SC&A will review them.

7 DR. MAURO: Mark, after we do the
8 review do we -- how do we mechanistically
9 handle it? Do we just email you, say that we
10 recommend closing? Is that how we --

11 CHAIRMAN GRIFFON: How do you come
12 back to this meeting?

13 DR. MAURO: Oh, the next time would
14 be -- so you wouldn't do it in between?

15 CHAIRMAN GRIFFON: No, I don't want
16 to close out, because the work group's
17 closing. We don't want to get into that issue
18 of the --

19 DR. MAURO: Oh, no, I'm not saying
20 we're closing. We just recommend that we
21 close --

22 CHAIRMAN GRIFFON: Right.

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1 DR. MAURO: -- and give you the
2 reason and you have it?

3 CHAIRMAN GRIFFON: But I know
4 that's one of the problems I've had with the
5 procedure, the subcommittee's database --

6 DR. MAURO: Yes, yes.

7 CHAIRMAN GRIFFON: -- is that
8 sometimes I see SC&A closed this issue.

9 DR. MAURO: Well, no -- no, no --

10 CHAIRMAN GRIFFON: They recommend.

11 DR. MAURO: -- we recommend, and
12 that's the only reason I asked you. Would you
13 like to see something from us before the next
14 work group meeting with our recommendations,
15 so that then you could act on it?

16 CHAIRMAN GRIFFON: Oh, it's always
17 better if you have a response ahead of time.
18 We all get into this habit of the last minute.

19 DR. MAURO: As opposed to doing it
20 here?

21 CHAIRMAN GRIFFON: Yes, but if you
22 have a response ahead of time --

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1 DR. MAURO: We'll do it.

2 CHAIRMAN GRIFFON: -- then at least
3 we can -- but then we can formally close it.

4 DR. MAURO: And then close it at
5 the meeting? That's what we try to do.

6 MR. FARVER: And if there's
7 supporting information, I usually try to email
8 that ahead of time --

9 CHAIRMAN GRIFFON: Right.

10 MR. FARVER: -- things like that.

11 DR. MAURO: Good.

12 CHAIRMAN GRIFFON: Okay -- so
13 moving on 127.1, and I don't know why. I had
14 a couple -- I had highlighted in the NIOSH
15 response as well. Anything about an
16 additional response?

17 MR. HINNEFELD: Yes.

18 CHAIRMAN GRIFFON: Was that
19 something I was missing or -- anyway.

20 MR. HINNEFELD: I had a note that
21 we were supposed to provide evidence that EE
22 worked in Building 108 while in the 100 area.

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1 That's the note I took at the March meeting.

2 CHAIRMAN GRIFFON: And that I have
3 in the -- yes, that I have in the resolution
4 column, but then I have in the matrix -- under
5 the NIOSH response I have something about
6 additional response. I'll try to --

7 MR. SIEBERT: Well, the additional
8 response is -- the April 15th response.

9 MR. HINNEFELD: I see. Your -- in
10 what I sent.

11 CHAIRMAN GRIFFON: It's in your --

12 MR. HINNEFELD: What I sent last
13 night was --

14 CHAIRMAN GRIFFON: There it is,
15 okay. Oh, and it's a good one. It's a long
16 one.

17 MR. SIEBERT: Don't mix those up.

18 CHAIRMAN GRIFFON: So can you maybe
19 summarize that -- what you found out?

20 MR. HINNEFELD: Well, I mean the
21 person was a laboratory technician in the 100
22 area, and so I think the finding relates to

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1 why weren't neutrons included in the dose
2 reconstruction, since they worked in the 100
3 area, which is the reactor area.

4 CHAIRMAN GRIFFON: Right.

5 MR. HINNEFELD: And our response
6 was, well, not every building in the 100 area
7 is a reactor building. This person was a lab
8 tech and, you know, based on the work, et
9 cetera.

10 And so this is more exposition on
11 that. It explains where in the file -- in the
12 case file we find the information that
13 describes, you know -- well, I guess where it
14 describes that she's in Building 108, or I
15 guess in one case Building 1713.

16 MR. SIEBERT: Both -- both areas.

17 MR. HINNEFELD: And then we quote
18 from a -- it looks like a document available
19 on the web about work activities that occurred
20 in Building 1713.

21 CHAIRMAN GRIFFON: What's the
22 relevance of this beryllium work?

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1 MR. SIEBERT: Well, the bottom line
2 is they exposed rats for research purposes and
3 then transferred them over to another building
4 for care --

5 CHAIRMAN GRIFFON: But exposed to
6 beryllium -- or not radiation?

7 MR. SIEBERT: Right, but they were
8 -- but they were exposed in another part of
9 the plant, and -- what this is pointing out is
10 they were transferred to this facility, which
11 clearly is not a facility with neutrons.

12 MR. HINNEFELD: It's where the --

13 MR. SIEBERT: It's where they took
14 care of the lab animals.

15 MR. HINNEFELD: One of the
16 buildings is where the EE worked, and so they
17 were taking care of lab animals in that
18 building.

19 MR. SIEBERT: So that combined with
20 being a lab technician dealing with biological
21 blood samples, stuff like that from the
22 animals, the Dose reconstructors determined

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1 that neutrons would not have been appropriate
2 because they weren't working anywhere near the
3 reactors, and it's just explaining that
4 situation, which I think we had agreed on the
5 last time. You just wanted a little bit more
6 specific information as to why we came up with
7 that idea.

8 MR. FARVER: Oh, I thought I just
9 agreed to it, but --

10 MR. SIEBERT: Well, we'll go with
11 that, too.

12 CHAIRMAN GRIFFON: So I guess
13 SC&A's --

14 MR. FARVER: I'll read through it.
15 I think it would be okay.

16 CHAIRMAN GRIFFON: I'm sure it's
17 how the TBD states it. I mean, do they
18 segregate -- I mean, how do you -- I don't
19 know --

20 MR. HINNEFELD: Do you know, Scott?

21 CHAIRMAN GRIFFON: -- if it
22 generically says that neutron exposures took

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1 place in the -- you know, because it segment
2 out in different buildings.

3 MR. SIEBERT: I can't tell you off
4 the top of my head.

5 CHAIRMAN GRIFFON: I'm just
6 wondering about, you know, going forward on
7 other cases if --

8 DR. MAURO: Am I correct, Doug,
9 when we see that someone's in the 100 area at
10 Hanford we automatically assume they should be
11 assigned neutron does? Is that something that
12 we --

13 MR. FARVER: We don't do that.

14 DR. MAURO: Okay.

15 CHAIRMAN GRIFFON: What was your --
16 Doug, what was your answer to that? Do you
17 know?

18 MR. FARVER: Oh, we just don't
19 automatically assume.

20 CHAIRMAN GRIFFON: You need more
21 information, right?

22 MR. SIEBERT: And if I remember

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1 correctly, it was actually stated specifically
2 in the dose reconstruction -- as a laboratory
3 tech her duties included reading dosimetry
4 badges for personnel, which obviously you
5 wouldn't be reading personnel badges in a
6 neutron area, performing tasks and so and so
7 forth. And they specified that as their work
8 and used that idea as to why they did not
9 assume neutrons. So it was in the original
10 dose reconstruction.

11 CHAIRMAN GRIFFON: Going back to
12 our theme of the day, this -- this -- these
13 duties and the job activities were in the
14 original --

15 MR. SIEBERT: Yes.

16 CHAIRMAN GRIFFON: -- dose -- okay.
17 Okay, so I think that closes that issue. It
18 does happen.

19 All right, 127.5. -- it's the same
20 -- is it the same issue? It's missed neutron,
21 right? It's the same --

22 MR. SIEBERT: It's the same thing.

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1 CHAIRMAN GRIFFON: Same exact
2 thing. I'm completing the record here. Okay.

3 Now 127.8. I should look in your
4 matrix. You probably have a response, or no?

5 MR. HINNEFELD: I've got on in
6 there.

7 CHAIRMAN GRIFFON: Okay, and SC&A -
8 - Doug, have you looked at this one or had a
9 chance to?

10 MR. FARVER: No, we haven't.

11 CHAIRMAN GRIFFON: Stu, can you
12 give us a summary of it maybe and --

13 MR. HINNEFELD: Well, the -- the
14 finding I think relates to the fact that there
15 is some common fission products that aren't
16 addressed in the internal dose. And I think
17 we -- you know, Scott, you know, again correct
18 me if I say something wrong or stupid here.

19 Our approach to fission products is
20 rather than identify every potential fission
21 product and try to do a dose estimate on every
22 single one, let's choose the most

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1 radiologically significant, you know, in terms
2 of this person's dose, essentially assume all
3 the fission product activity is that
4 radionuclide, which would then give you --
5 which would be higher than the dose had you
6 apportioned that radioactivity among the
7 various radionuclides and assigned a dose in
8 that fashion.

9 And so I think that's what this is
10 trying to explain. It's a long explanation,
11 and I didn't get the chance to read much
12 before I sent it out, so I think that's what
13 it's trying to say.

14 MR. FARVER: Is this our standard
15 one that has to do with OTIB-54?

16 DR. MAURO: Fifty-four, right. But
17 that has a mix. In other words, 54 has the
18 different reactor types. It has a different
19 mix of radionuclide. In other words, what you
20 do is you go to gross beta gamma in the urine
21 and say, okay, given that gross beta gamma in
22 the urine we're going to assume that this kind

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1 of reactor -- this is your default mix and you
2 get your intake, as opposed to what you just
3 described which would be a single
4 radionuclide.

5 MR. HINNEFELD: Yes.

6 DR. MAURO: Okay.

7 MR. HINNEFELD: I, really -- I'm
8 just speaking off the -- but I think it is
9 true that we don't attempt to identify every
10 radionuclide and assign a dose for everyone.
11 We try to find one or perhaps a suite and
12 apportion the activity, the total activity
13 among those, you know, and the knowledge that
14 those are more radiologically significant and,
15 therefore, would bound with any other
16 distribution of the dose.

17 MR. FARVER: This looks like the
18 one where you went to the radionuclide chooser
19 on this one.

20 MR. SIEBERT: Right. This was done
21 prior to OTIB-54 and OTIB-39, which is the co-
22 worker.

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1 CHAIRMAN GRIFFON: It's basically
2 seen as more conservative than --

3 MR. SIEBERT: And when we went back
4 and re-calculated, if we did it the present
5 way the doses went down --

6 CHAIRMAN GRIFFON: Went down.

7 MR. SIEBERT: -- from what we
8 assigned. I've got to read this over again.

9 CHAIRMAN GRIFFON: Did you provide
10 those calculations to us, or was that part of
11 this transmittal? You may not.

12 MR. HINNEFELD: I don't know. I
13 don't remember any 127 files.

14 CHAIRMAN GRIFFON: Because the way
15 I read that last part, you know, they have
16 typically resulted in lower internal -- you
17 know, it's a little squishy there, so --

18 MR. SIEBERT: It's one of those
19 where we may not have done the actual --

20 CHAIRMAN GRIFFON: Right, right,
21 right.

22 DR. MAURO: By the way, on the

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1 OTIB-54, we did review it and found it
2 favorable.

3 CHAIRMAN GRIFFON: Is that still in
4 the work group or --

5 DR. MAURO: I think we've gone
6 through it, and there was a few comments, but
7 by and large it was a favorable finding. I
8 don't know --

9 CHAIRMAN GRIFFON: Is that approach
10 as Stu described it, or is it --

11 DR. MAURO: No, what we did -- what
12 they did is they took different categories of
13 reactors --

14 CHAIRMAN GRIFFON: I think it's a
15 little more sophisticated.

16 DR. MAURO: It's very
17 sophisticated. And, you know, whether or not
18 this particular reactor is embraced by that
19 range of reactive types that are captured in
20 54.

21 Then what we did is we did a very
22 detailed analysis of the origin runs that were

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1 run, to figure out the radionuclide mix and
2 what would be the limiting -- Joyce did the
3 work, and she did a very thorough review, and
4 we came back saying, good job.

5 CHAIRMAN GRIFFON: So they actually
6 went with a mix rather than just a --

7 DR. MAURO: They went with a mix
8 but it was based on --

9 CHAIRMAN GRIFFON: I haven't looked
10 at TIB-54.

11 DR. MAURO: The -- the -- the
12 starting point though was the bioassay, and
13 the problem is --

14 CHAIRMAN GRIFFON: Right.

15 DR. MAURO: -- there's a lot of
16 gross beta gamma data in urine out there.
17 What do you do with it?

18 CHAIRMAN GRIFFON: Of course. So I
19 guess what I would -- I don't know about Doug
20 but what I would want in this case maybe is
21 just the assessment that Scott described just
22 now, the documents that show that, and then we

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1 can close it out, you know.

2 MR. FARVER: Yes, I thought there
3 was another finding from another case about --
4 we had this question about, well, we used a
5 radionuclide chooser, and we always come back
6 to say, well, 54 should have taken care of it.
7 We're looking at that, but I never remember
8 it being closed out.

9 MR. HINNEFELD: No, it's an open
10 finding in a number --

11 CHAIRMAN GRIFFON: Yes, it is.

12 MR. HINNEFELD: -- findings, the
13 kind to reconcile this -- the fission product
14 internal dose approaches, you know.

15 MR. FARVER: Okay.

16 MR. HINNEFELD: You know, old
17 approaches with current and sort of the basis,
18 and essentially also at the same time as this
19 --

20 CHAIRMAN GRIFFON: In other words,
21 is this method used in the past more bounding
22 or at least as bounding as TIB-54.

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1 MR. SIEBERT: Right, yes. When
2 this was initially done this person had gross
3 beta urine and whole body counts, and back at
4 that time, without OTIB-54, if you tried to
5 base everything off the urine, the numbers
6 were just unbelievably large --

7 DR. MAURO: I remember this.

8 MR. SIEBERT: -- and so what we did
9 is we eliminated with the most claimant
10 favorable radionuclide based on the whole body
11 counts --

12 DR. MAURO: Yes.

13 MR. SIEBERT: -- which is where
14 that whole chooser thing came from. Now that
15 we have OTIB-54, a claim like this would be
16 based on the gross beta urine, and with the
17 suite assigned to it, and what we need to do
18 is we need to make that, I guess, what you
19 want to see is that comparison of doing it
20 that way --

21 DR. MAURO: Yes.

22 MR. SIEBERT: -- versus what we did

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1 previously with the chooser.

2 CHAIRMAN GRIFFON: And you answered
3 my other question which is why -- why did
4 things get switched over to this sophisticated
5 model in TIB-54, and the answer is the doses
6 were way too --

7 DR. MAURO: Too high.

8 CHAIRMAN GRIFFON: -- astronomical,
9 right.

10 So what is the -- the remaining
11 action here, I think, is that, you know, NIOSH
12 will provide support files to indicate that it
13 is at least as bounding --

14 MR. HINNEFELD: Yes.

15 CHAIRMAN GRIFFON: -- as bounding
16 as TIB-54 approach, or something like that.

17 Okay, moving on, 127.10, you added
18 a response to those, Stu.

19 MR. HINNEFELD: Yes, I believe it's
20 much the same issue but from this -- is that
21 right?

22 MR. FARVER: Probably, let's see.

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1 DR. MAURO: Yes.

2 MR. FARVER: Well, we closed a
3 section of the TBD that talks about Carbon 14,
4 P-32. There was a radon generator as
5 potentially --

6 CHAIRMAN GRIFFON: And this is --

7 MR. FARVER: But I thought we had
8 discussed this.

9 CHAIRMAN GRIFFON: The way that's
10 worded, several -- radionuclides as opposed to
11 the fission -- you know, it seems like it's a
12 different thing.

13 MS. BEHLING: It's definitely
14 different than the fission product.

15 MR. FARVER: Yes, it is.

16 MS. BEHLING: And I thought we were
17 still waiting on maybe NIOSH to resend a
18 response, because I don't seem to see one
19 here.

20 CHAIRMAN GRIFFON: Yes, they did --
21 they did add a response --

22 MS. BEHLING: Okay.

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1 CHAIRMAN GRIFFON: -- but I'm not
2 sure it's responsive.

3 MR. HINNEFELD: Well, yes -- to be
4 honest with you that was a response to the
5 note that I wrote last time which has to do
6 with send initial responses to these findings,
7 so that was my note that I wrote last time.

8 MS. BEHLING: Okay, and I see they
9 did introduce a response into the matrix, into
10 Stu's matrix. I guess we just need to look
11 this over.

12 CHAIRMAN GRIFFON: I'm not sure --
13 Doug, can you -- Doug or Kathy, can you go
14 over the original? You have the text there.
15 I mean, it doesn't seem to be related to the
16 fission product question.

17 MR. FARVER: No, it doesn't. It
18 has to do with Carbon 14 and P-32.

19 CHAIRMAN GRIFFON: Right.

20 MR. FARVER: Apparently, it's --
21 there was a radon generator used for animal
22 studies in the 1008-F Building and later moved

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1 to some other place. Monitoring was probably
2 just by air sampling, but no information has
3 been discovered yet. So that's taken as a
4 TBD.

5 I guess if we can conclude that
6 this person -- well, no, they didn't work in
7 the 1008.

8 CHAIRMAN GRIFFON: So Scott, are
9 you saying that those doses from those other
10 nuclides are also bounded by the fission
11 product?

12 MR. SIEBERT: No.

13 CHAIRMAN GRIFFON: No.

14 MR. SIEBERT: I think --

15 CHAIRMAN GRIFFON: Yes, I think
16 that -- yes.

17 MR. SIEBERT: I mean, radon, I can
18 tell you right now, isn't an issue that's
19 pressing.

20 CHAIRMAN GRIFFON: Right. Do you
21 want to strike this response, is this going to
22 confuse us down the line?

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1 MR. HINNEFELD: Yes.

2 MR. SIEBERT: Yes.

3 CHAIRMAN GRIFFON: I'm down to
4 129.5. This is the TIB-54. This is the exact
5 question we were just bringing up, right?

6 MR. HINNEFELD: Yes.

7 CHAIRMAN GRIFFON: So do we have
8 files for this woman?

9 MR. SIEBERT: Well, this is
10 Savannah River. This would be a different
11 issue because as it stands right now OTIB-54
12 is not applied to whole body counts, and
13 that's what we are -- that's where the
14 discussion needs to be dealt with.

15 CHAIRMAN GRIFFON: So this was done
16 based on whole body counts?

17 MR. SIEBERT: Right. This was
18 using chooser with the whole body count.

19 CHAIRMAN GRIFFON: Right. And the
20 question I have -- maybe this is wrong, but we
21 were going to -- NIOSH was going to compare
22 this to values using TIB-54 and see if the

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1 approach was still bounding or consistent or -
2 - is that wrong?

3 MR. SIEBERT: Well, I'd have to
4 look at this case. If this case does not have
5 urine bioassay --

6 CHAIRMAN GRIFFON: Right, right, so
7 I'm not sure.

8 MR. SIEBERT: -- for beta, I -- you
9 don't -- 54 doesn't really apply, or we don't
10 have a method to apply it at the moment.

11 MR. HINNEFELD: There are -- aren't
12 there a series of Savannah River internal
13 fission product dose reconstruction limits
14 around here somewhere?

15 MR. SIEBERT: It falls under all
16 the rest of them with Savannah River where we
17 used chooser as being -- as what we were going
18 to look into.

19 MR. FARVER: Yes.

20 MS. BEHLING: I don't believe that
21 in this particular case there was any
22 urinalysis data. I think it was lung and

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1 whole body count data, and 54 I don't think
2 would apply here.

3 MR. SIEBERT: Well, as it stands
4 right now, that's one thing I believe we are
5 looking into is how we could apply them -- 54
6 methodology to whole body counts.

7 MR. FARVER: Yes, that's what --

8 MR. SIEBERT: And that's the issue.

9 CHAIRMAN GRIFFON: Yes.

10 MR. FARVER: Can it be applied.

11 DR. MAURO: Isn't Savannah River
12 the place where you used the high five --
13 highest five, or are you not doing that any
14 longer?

15 MR. SIEBERT: Well, that's OTIB-1.
16 That's the overestimate.

17 DR. MAURO: Right, but you weren't
18 doing that here?

19 MR. SIEBERT: No. This was
20 actually using the chooser -- used the largest
21 of the most claimant favorable of the
22 radionuclides that were monitored within the

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1 whole body count.

2 DR. MAURO: How does the dose
3 reconstructor decide when to use the high
4 five, as opposed to this method? What would
5 be the judgment --

6 MR. SIEBERT: When they can use an
7 overestimate.

8 DR. MAURO: So, in other words, was
9 this person denied?

10 MR. SIEBERT: I would assume,
11 probably yes.

12 DR. MAURO: But if you would have
13 gone with the high five, he wouldn't have
14 been?

15 MS. BEHLING: John, this is a best
16 estimate case.

17 DR. MAURO: I'm sorry, say it.

18 CHAIRMAN GRIFFON: Best estimate
19 case.

20 MS. BEHLING: This is a best
21 estimate case.

22 DR. MAURO: Oh, this is a best

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1 estimate. Okay, I'm sorry -- okay.

2 MR. FARVER: This is right after --

3 DR. MAURO: And he was compensated.

4 And you wouldn't use high five under those --
5 okay, got it.

6 CHAIRMAN GRIFFON: So, Scott, let
7 me just capture that. You said you were
8 reviewing TIB-54 first to determine whether it
9 can be used with whole body count data, right?

10 MR. SIEBERT: Right.

11 CHAIRMAN GRIFFON: Or whether that
12 --

13 MR. SIEBERT: Right. I know that's
14 on our plate. We're looking at that.

15 CHAIRMAN GRIFFON: But I don't know
16 that that impacts this finding right now. I
17 mean, that's -- that's sort of would go over
18 to the procedures work group, right?

19 MR. FARVER: Well, it's going to
20 come up a lot in findings that you won't have.

21 MR. SIEBERT: And it has been for
22 quite a while --

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1 MR. FARVER: Right.

2 MR. SIEBERT: -- because every time
3 we bring up chooser this is what we end up
4 with --

5 CHAIRMAN GRIFFON: Right.

6 MR. SIEBERT: -- that it's being
7 looked at and --

8 MR. FARVER: I think we're still --

9 CHAIRMAN GRIFFON: And do we have
10 any kind of time frame on that, or is that way
11 out there, or it's hard to tell?

12 MR. SIEBERT: I can't tell you.

13 CHAIRMAN GRIFFON: All right, we're
14 going to leave -- I'll leave it on there for
15 now because we left it on there last time, so
16 --

17 MR. SIEBERT: Well, in this case -
18 - and it's certainly up to you, but in this
19 case it was comp so it's not going to make a
20 decision, and it's already captured in many
21 other places, you could just close it.

22 MS. BEHLING: This case -- I

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1 thought this case was denied.

2 MR. HINNEFELD: If it was 70.00 it
3 shouldn't have been.

4 MS. BEHLING: No, it's 36.6.

5 MR. FARVER: Did I read the wrong
6 one.

7 MR. SIEBERT: Now I'm seeing 46.9.
8 So what's the right answer?

9 CHAIRMAN GRIFFON: We've got three
10 different -- we'll leave it on there either
11 way. We can -- we can deal with that later,
12 but --

13 MR. FARVER: Well, but I don't have
14 the --

15 CHAIRMAN GRIFFON: I mean, it's not
16 going to matter that much for the whole matrix
17 because if we delete them all -- if they all
18 fall off at once, that's fine.

19 All right.

20 MR. SIEBERT: It's 129.

21 CHAIRMAN GRIFFON: 130.6. I'm
22 moving ahead.

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1 MR. SIEBERT: 36.63. Do we all
2 agree now when we look at the right one.

3 CHAIRMAN GRIFFON: Kathy, you were
4 right.

5 MS. BEHLING: Thank you.

6 MR. FARVER: I guess what's scary
7 is we could all look at different cases and
8 not realize it.

9 MEMBER CLAWSON: That comes up to a
10 quality assurance.

11 DR. MAURO: Failure to communicate.

12 CHAIRMAN GRIFFON: So I'm on 130.6
13 now, so we can --

14 MR. FARVER: Trying to get there.

15 CHAIRMAN GRIFFON: -- get focused
16 here. We're getting near the end of set
17 seven.

18 I though we would be doing set 11,
19 but not quite. So is this a question of the
20 work history, right, to see if --

21 MR. SIEBERT: It's a question of
22 when is it appropriate to be assigning missed

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1 fission product dose for this individual --

2 CHAIRMAN GRIFFON: Right.

3 MR. SIEBERT: -- based on the area.

4 And further investigation of where the person
5 was put them in the 400-D area, which is not a
6 reactor area.

7 MR. HINNEFELD: Is that the heavy
8 water area?

9 MR. SIEBERT: The heavy water
10 facility. So obviously tritium monitoring
11 would be appropriate; however, fission
12 products, you're not going to be getting it in
13 that area.

14 So what we determined is that is
15 made sense not to be assigning it. The
16 individual also didn't have a badge, an
17 external monitoring badge, because it was
18 practice in the area of not assigning badges
19 to that area because it wasn't external
20 exposure, as well.

21 So everything that we found during
22 those earlier years wind up that he was

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1 actually in the 400-D area, and it was
2 appropriate not to assign this.

3 CHAIRMAN GRIFFON: Why don't we --
4 that was your initial response, really, but
5 for some reason we were requiring --

6 MR. SIEBERT: You wanted to get --
7 you just wanted us to go a little bit more
8 deeply into determining the 400 area, which we
9 delved into and found. Yes, that's what
10 everything is.

11 CHAIRMAN GRIFFON: But I guess what
12 I'm getting at is I don't see an additional
13 response on that -- that delving into it.

14 MR. SIEBERT: It's in Stu's.

15 CHAIRMAN GRIFFON: Okay, thank
16 you.

17 MR. SIEBERT: Sure.

18 CHAIRMAN GRIFFON: So, Doug, did
19 you have a chance to look at this?

20 MR. FARVER: No, I have not.

21 CHAIRMAN GRIFFON: Would you like a
22 chance?

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1 MR. FARVER: Yes, please.

2 MR. HINNEFELD: Now this person's
3 exposure record theoretically would have a
4 bioassay cards, it would have the work
5 locations?

6 MR. SIEBERT: Yes, it does. It's
7 listed as 400-D in the very early years, or
8 just D a little bit later, which was fifties,
9 early sixties. And we also looked at the fact
10 that Savannah River doesn't have a D reactor.
11 It has a C, L, K, all those others, so it
12 couldn't be confused with a reactor area.
13 When they were specifically saying D, they
14 meant the 400-D area on the cards.

15 MR. FARVER: That's correct, 400-D
16 is heavy water.

17 MR. SIEBERT: And the person was an
18 operator, foreman, and supervisor in the heavy
19 water operations.

20 CHAIRMAN GRIFFON: 131.4 is the
21 next case I have.

22 MR. HINNEFELD: I don't think I

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1 sent anything to you on 131.4.

2 DR. MAURO: I think we had an
3 action on that, right?

4 CHAIRMAN GRIFFON: No, NIOSH will
5 provide a sample calculation for those.

6 MR. HINNEFELD: My action item was
7 sample dose calculations showing how dose was
8 reconstructed for this DR-4 for a given year.
9 Is this --does this have a shallow dose?

10 DR. MAURO: You didn't have all the
11 --

12 MR. HINNEFELD: I'm on 131.4.

13 MR. FARVER: Yes, I thought we
14 closed this last time.

15 MS. BEHLING: I thought so, too.

16 CHAIRMAN GRIFFON: I had something
17 about a sample calculation using --

18 MR. HINNEFELD: I had them there,
19 too.

20 MR. FARVER: Yes, this is the point
21 three. I do remember this one. This is one
22 we couldn't figure it out, and they were in --

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1 CHAIRMAN GRIFFON: So it's a
2 remaining action?

3 MR. HINNEFELD: Yes, yes, and I
4 didn't send anything before this meeting. I
5 didn't know.

6 CHAIRMAN GRIFFON: 131.6?

7 MR. HINNEFELD: Yes, I didn't send
8 anything additional with this one either, but
9 this is -- it sounds a lot like the one we
10 talked about just a minute ago.

11 It wasn't in the consolidated
12 matrix that came over a couple of days --
13 131.4 and 131.6.

14 CHAIRMAN GRIFFON: I took a big
15 jump down to 135.1, is the next one I found.

16 MR. SIEBERT: No, we haven't
17 answered that one. I think it was just --
18 matrix --

19 CHAIRMAN GRIFFON: Oh, it is.

20 MR. HINNEFELD: Yes.

21 CHAIRMAN GRIFFON: Doug, you
22 probably haven't had an opportunity to look at

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1 this, have you?

2 MR. FARVER: No.

3 MR. SIEBERT: Well, it probably
4 shouldn't be that hard. The question was
5 whether it is based on missed or co-worker
6 dose, and it was based on -- the person was
7 actually monitored the full time, so it was
8 based on actual badge numbering, and it was
9 based on missed.

10 That was the only question I had
11 outstanding.

12 CHAIRMAN GRIFFON: Yes. So it was
13 based on reported badge doses and missed
14 doses, not a co-worker model, right?

15 MR. SIEBERT: Correct.

16 CHAIRMAN GRIFFON: Is there any
17 follow-up on that SC&A, Doug? I think that -
18 -

19 MR. SIEBERT: It's clean.

20 CHAIRMAN GRIFFON: Yes. 135.4.

21 MR. HINNEFELD: I didn't send
22 anything new on that. I'm still working on

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1 that.

2 CHAIRMAN GRIFFON: Okay.

3 MR. HINNEFELD: I think we're
4 supposed to provide information about work
5 locations where tritium might have been a
6 factor in 112. Isn't that what we were asked
7 to do?

8 CHAIRMAN GRIFFON: Yes.

9 MR. HINNEFELD: Because our
10 response says based on where he worked. There
11 isn't any, but that was all it said.

12 CHAIRMAN GRIFFON: Right. All
13 right, yes, because he reported on the CATI,
14 too. It was reported on the CATI.

15 MR. HINNEFELD: Yes, he probably
16 checked it on the CATI.

17 CHAIRMAN GRIFFON: All right,
18 136.3.

19 MR. HINNEFELD: I think that was an
20 extra file I sent last night.

21 MR. SIEBERT: Yes, that's the x-
22 rays at Rocky Flats.

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1 CHAIRMAN GRIFFON: Is that in the
2 matrix or is it --

3 MR. HINNEFELD: It's separate, and
4 I'm thinking that might be part three. No,
5 not part three.

6 It's in the seventh set response it
7 is not part two or part three. It was the
8 first of the messages. There are a series of
9 136 files attached there.

10 CHAIRMAN GRIFFON: I'm sorry, Stu,
11 which --

12 MR. HINNEFELD: There are a series
13 -- it's on -- the message I sent just said
14 seventh set response. I sent it at 5:23
15 yesterday, and it doesn't have a part two or
16 part three on it -- the title.

17 MR. FARVER: I don't see anything
18 in there concerning x-rays.

19 MR. HINNEFELD: Well, I don't know.
20 I sent a bunch of 136 files.

21 MR. SIEBERT: Yes, those are all
22 the internal files for 136.

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1 MR. HINNEFELD: Oh, this is --
2 okay, these are 36.4 and 5. That's not for
3 three --

4 MR. SIEBERT: Yes.

5 MR. HINNEFELD: -- so I have not
6 got a report back; in fact, I have, I think, a
7 phone call in from --

8 MR. SIEBERT: No, we've got that
9 done.

10 MR. HINNEFELD: Did I do something
11 on this?

12 MR. SIEBERT: Yes, this is part of
13 what I sent.

14 MR. HINNEFELD: Well, I dropped
15 this one. I dropped this one, then.

16 MR. SIEBERT: The bottom line on
17 this one, if this is where we were having the
18 issue that the Rocky Flats films may not have
19 lined up with the paper record that we were
20 basing everything on, so we had requested from
21 Rocky Flats to look through their films for
22 specific cases to see if there was a

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1 difference in what was in the film versus what
2 they sent us.

3 And this was one of the ones that
4 came back and actually what we had in the
5 paper record was identical to what was in the
6 film record. So this one actually, because we
7 used the paper record as a best estimate, it
8 was appropriate because it's the same as what
9 was in the film record.

10 Now we found at Rocky Flats there
11 are some where there are more films than what
12 was in the paper records, and that's a
13 different issue that we're dealing with. But
14 for this specific case they lined up on a one-
15 to-one basis so what was done using the paper
16 record was accurate.

17 MR. FARVER: But you didn't know it
18 was accurate at the time?

19 MR. HINNEFELD: At the time we did
20 the dose reconstruction we didn't know that
21 the -- that there was a problem with the paper
22 records.

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1 MR. SIEBERT: Right.

2 MR. HINNEFELD: That we discovered
3 later.

4 MR. FARVER: Even though that's in
5 the TBD?

6 MR. SIEBERT: The TBD says there
7 may have been inconsistencies, however, it
8 didn't always direct to always use annual --
9 we had this discussion before.

10 MR. HINNEFELD: Yes, the TBD left
11 the dose reconstructor with nothing to do -- I
12 mean, no -- it said it threw that in there but
13 didn't provide any direction, and it took us a
14 while to discover that we needed some
15 direction, and then once we started looking
16 in it we saw, yes, that's really true. We
17 can't rely on the paper record, and so that's
18 when we started . I think we were actually
19 retrieving the paper records.

20 MR. SIEBERT: But they're going
21 through all the films.

22 MR. HINNEFELD: Yes, that's what I

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1 meant, going through all the films.

2 DR. MAURO: So you don't default
3 to this -- what is it, Ron Kathren's report,
4 the OTIB-6, for all x-rays. In other words --

5 MR. SIEBERT: No, not if we have
6 something in a -- not if we have a TBD.

7 DR. MAURO: And you have actual
8 film records for this worker and how many
9 records --

10 MR. SIEBERT: We ended up going
11 back to the film record.

12 CHAIRMAN GRIFFON: We had a paper
13 summary, yes.

14 MR. SIEBERT: We had a paper --
15 it's Rocky Flats. So we have a TBD, which
16 told us -- gave us direction but it was not
17 real clear on how we implemented the
18 direction, and then once we determined that
19 was the case we -- this really came up
20 because I was trying to determine if the paper
21 records were fully complete or not, and when
22 we looked at those seven ones requested, most

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1 of them had some films in there that were not
2 in the paper record.

3 Now this one, like I said, this one
4 did bring up that issue.

5 DR. MAURO: Just for my own
6 information, did this person's records include
7 one per year or more --

8 MR. SIEBERT: No, no, it's --
9 there's one in '69, there's one in '73, one in
10 '75, one in '77, '78, '83, and '84.

11 MR. FARVER: You tell me that's
12 what they did. As you got older, you had them
13 more frequently.

14 MR. SIEBERT: Right.

15 MR. FARVER: But it doesn't match
16 up with the frequency in the TBD. Has the
17 guidance in the TBD been changed or clarified?

18 MR. SIEBERT: I don't know.

19 MR. HINNEFELD: Well, there was a
20 lot of changes made to that TBD. There were a
21 lot of changes made. I don't know if this one
22 was changed or not.

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1 MR. SIEBERT: This is a relatively
2 recent --

3 MR. HINNEFELD: Yes.

4 MR. SIEBERT: -- issue that's come
5 up in the last few months that's exactly with
6 the film records and so on, so I'm guessing
7 probably not at the moment.

8 CHAIRMAN GRIFFON: Well, can I --
9 you might have answered this already, but
10 going back to Doug's initial questions you
11 assumed up front when the case was done that
12 the paper record was complete. And you kind
13 of got lucky on this one. As you said, other
14 cases didn't line up, but how did you -- you
15 didn't know that beforehand.

16 MR. SIEBERT: The way the TBD was
17 written is it said there may be some
18 inconsistencies. So what we looked at doing
19 was if it appeared to be -- and this has to be
20 a judgment call.

21 If it appeared to be complete to
22 the dose reconstructor -- there's no reason

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1 for them to believe things were missing out of
2 it. That's -- they made the assumption that
3 the paper record was accurate and moved on
4 from there.

5 And that's what they did in this
6 case, because he was getting one every couple
7 of years. There's wasn't just huge time
8 frames that were missing, so they used their
9 professional judgment of saying it looks like
10 it's complete, so we'll make the assumption
11 that it is complete.

12 MR. FARVER: It just -- it was not
13 clear to TBD?

14 MR. SIEBERT: Right.

15 MR. FARVER: You know, TBD says
16 based on the records review during
17 preparation of this document, no worker
18 received x-rays more often than annually. And
19 then it goes on without a review of the
20 specific claimant's x-ray file, an exact count
21 of the x-rays is impossible. Medical files do
22 not always document each x-ray taken, at least

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1 not in the years before the mid seventies.

2 So claimant's favorable approach is
3 to assume -- lumbar spine was taken, that the
4 claimant worked -- it gives guidance about
5 what to assume, then.

6 MR. SIEBERT: Right.

7 MR. FARVER: But --

8 MR. SIEBERT: And another thing to
9 point out there, it does say prior to the mid
10 seventies.

11 MR. FARVER: Yes.

12 MR. SIEBERT: One, two, three,
13 four, five -- five out of his two, four, six,
14 seven -- out of his seven x-rays were taken
15 from the mid seventies forward, so --

16 MR. FARVER: No question about it.

17 MR. SIEBERT: -- once again the
18 dose reconstructor looked at it and said,
19 well, it looks like it's complete, and I don't
20 have an indication that it's not. And that's
21 why a default process went in there.

22 CHAIRMAN GRIFFON: I'm not sure

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1 where. Is this a remaining TBD? I should ask
2 the question. We have some --

3 MR. HINNEFELD: I've got a note.
4 I'll ask and see --

5 CHAIRMAN GRIFFON: We still have
6 some Rocky Flats.

7 MR. HINNEFELD: There's still some
8 Rocky Flats changes? We'll continue getting
9 Rocky Flats cases or cases outside the class
10 period, so --

11 MR. SIEBERT: And now that we're
12 getting the film records --

13 MR. HINNEFELD: And we're getting
14 the films --

15 MR. SIEBERT: -- the TBD's going to
16 be easy enough to say you've got the film
17 record, go with it.

18 MR. FARVER: And that's kind of
19 what I was getting at.

20 MR. HINNEFELD: Yes.

21 MR. SIEBERT: Right.

22 MR. FARVER: You change it to say

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1 that.

2 MR. SIEBERT: Right, we have not
3 done that, as of yet.

4 CHAIRMAN GRIFFON: So you have --
5 I mean, there's complete sets of films --

6 MR. HINNEFELD: Yes, I've put it on
7 the list. You understand --

8 MR. SIEBERT: That's what they're
9 going through now.

10 MR. HINNEFELD: Our project to-do
11 list --

12 CHAIRMAN GRIFFON: They'll be there
13 for all workers, do you think?

14 MR. SIEBERT: Yes, they're going
15 through --

16 MR. HINNEFELD: Our project to-do
17 list is a Microsoft project file that --

18 CHAIRMAN GRIFFON: But you haven't
19 made that commitment yet, so you definitely
20 use those records or that's just something --

21 MR. SIEBERT: Well, we internally
22 are.

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1 MR. HINNEFELD: What's that?

2 MR. SIEBERT: Go ahead, I'm sorry.

3 MR. HINNEFELD: I was just babbling
4 about our to-do list. I said I would put this
5 TBD revision on the to-do list, and our
6 project to-do list is a Microsoft project file
7 about this thick.

8 CHAIRMAN GRIFFON: I was making a
9 to-do list on the plane just for tomorrow --
10 anyway.

11 So, you're saying --

12 MR. SIEBERT: But this is a good
13 example of something that we can't put into a
14 guidance document.

15 CHAIRMAN GRIFFON: Yes, exactly.
16 That's what I was thinking. It's for
17 guidance; it's not a TBD yet.

18 MR. SIEBERT: And then there's -- I
19 don't see it.

20 CHAIRMAN GRIFFON: Right. Okay. I
21 mean, I captured that stuff and said no
22 further action for this case, I don't think.

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1 We've got another one now.

2 All right, 136.4. Now these are --

3 MR. HINNEFELD: Yes, point four and
4 point five are in the files that I sent along,
5 okay.

6 MR. FARVER: I mean, the real files
7 aren't the ones that they sent. That was some
8 teaser file to attract you this morning. And
9 once they finally sent me the real file --

10 CHAIRMAN GRIFFON: Can Scott --

11 MR. HINNEFELD: Did this come over
12 in the transfer file?

13 MR. SIEBERT: Yes, I think so.

14 CHAIRMAN GRIFFON: Scott, can you
15 send us the correct file, as well?

16 MR. SIEBERT: I'm not sure I have
17 everybody's address.

18 MR. HINNEFELD: Did you send it to
19 me?

20 MR. SIEBERT: Yes, I just forwarded
21 it to you a little while ago.

22 CHAIRMAN GRIFFON: Stu, I know you

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1 were looking at this on the break. I mean,
2 are you ready to --

3 MR. HINNEFELD: Oh, no. I finally
4 found out what the real file was, and I'll
5 have to look at that.

6 CHAIRMAN GRIFFON: Okay, all right.

7 MR. HINNEFELD: The other file's
8 really --

9 MR. SIEBERT: You thought nothing
10 had changed because with the files you had
11 nothing had changed.

12 MR. HINNEFELD: Right.

13 DR. MAURO: Are you saying the
14 original analysis used Type S, and you agree
15 that Type M should have been used? Is that
16 what this is? And then you reran it with M?

17 MR. SIEBERT: I'm sorry, it's the
18 one where -- yes, we assumed -- we assessed it
19 as Type M because the dose came out more
20 claimant favorable than Type S, based on the
21 assumptions on how you fit the data.

22 And Doug came up with a way to fit

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1 the data that Type S had a larger dose, but
2 the file that I sent out a little while ago
3 demonstrated that that actually overestimated
4 earlier chest counts, and is also
5 inconsistent with assuming exposure during the
6 whole employment time frame.

7 CHAIRMAN GRIFFON: In other words,
8 the approach that Doug described. You're
9 saying the course that he described?

10 MR. SIEBERT: It's outside --

11 CHAIRMAN GRIFFON: They were given
12 higher chest measurements than they actually
13 have to?

14 MR. HINNEFELD: Yes.

15 MR. SIEBERT: Yes, yes. It's two
16 to three times higher than the actual results.

17 MR. FARVER: And just from looking
18 at your file, I still have some questions
19 about it, so I'll ask you about them.

20 CHAIRMAN GRIFFON: Do we still have
21 a working subcommittee? We have me and Mike,
22 out of five?

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1 MR. HINNEFELD: I don't know.

2 CHAIRMAN GRIFFON: I'm not sure
3 that we can --

4 MR. KATZ: There's no quorum
5 requirement for the subcommittee.

6 CHAIRMAN GRIFFON: Oh, there's no
7 quorum requirement for the -- okay.

8 MR. SIEBERT: You can have a
9 meeting all by yourself.

10 CHAIRMAN GRIFFON: I was getting
11 tired.

12 MR. SIEBERT: We can put one in
13 place.

14 MS. BEHLING: No, no.

15 CHAIRMAN GRIFFON: That's the 100
16 cases report.

17 MR. HINNEFELD: Yes, I just copied
18 everybody --

19 CHAIRMAN GRIFFON: I try, I try.

20 MR. HINNEFELD: I was with you.

21 CHAIRMAN GRIFFON: This is only
22 the dead spot in the afternoon.

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1 MR. HINNEFELD: Yes, I was right
2 there with you.

3 CHAIRMAN GRIFFON: I need one more
4 coffee.

5 MS. BRACKETT: Hello. I'm sorry,
6 this is Liz. Emily, are you sure there's no
7 quorum requirement since they have a charter?

8 MS. HOWELL: No, because the
9 subcommittee is less than quorum anyway.

10 MS. BRACKETT: Oh, okay. No, I
11 meant quorum of the subcommittee members.

12 MS. HOWELL: I don't think so. I
13 don't -- I can check.

14 MS. BRACKETT: Okay.

15 CHAIRMAN GRIFFON: Yes, Liz, if you
16 can find something -- I'm a little low on
17 energy, so anything you can find.

18 MS. BRACKETT: I'll look. I'll
19 pull up Roberts and make sure, but, no, just
20 carry on. I just wanted to double check.
21 Thanks.

22 CHAIRMAN GRIFFON: All right. I'm

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1 going on to 137.4, overarching issues. So I
2 think this is just going to be an on-going --

3 MR. HINNEFELD: Yes, my note was
4 that this was going to be an overarching
5 issue.

6 CHAIRMAN GRIFFON: Right, right.
7 137.6.

8 MR. FARVER: I'll have to review
9 this.

10 CHAIRMAN GRIFFON: Did you guys
11 send the data? Okay.

12 Is there a response in the matrix,
13 or is this pile that you --

14 MR. FARVER: In the matrix.

15 CHAIRMAN GRIFFON: 137.7.

16 MR. FARVER: I'll have to review
17 that. See, a lot of these ones like this I
18 can just email you back saying --

19 CHAIRMAN GRIFFON: That's fine.
20 And then we might be able to very quickly at
21 the next meeting. That's fine.

22 MR. FARVER: Right.

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1 CHAIRMAN GRIFFON: This is also in
2 the matrix?

3 MR. FARVER: Yes.

4 CHAIRMAN GRIFFON: I'm sorry to
5 take the time up this way, but it's going to
6 make it a lot easier.

7 MR. HINNEFELD: That's great.

8 CHAIRMAN GRIFFON: Okay, 137.8,
9 anything?

10 MR. FARVER: Same thing.

11 CHAIRMAN GRIFFON: A lengthy
12 response.

13 MR. HINNEFELD: Yes, it's -- it
14 went really long. Trying to be explanatory.

15 CHAIRMAN GRIFFON: We appreciate
16 that, Stu.

17 MR. HINNEFELD: Part of this is my
18 fault. The original response to that I didn't
19 think answered the whole question, so I
20 answered more and it really came across with a
21 lot more.

22 CHAIRMAN GRIFFON: Looking down, is

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1 there any of those here?

2 MR. HINNEFELD: I think one's
3 144.2, maybe.

4 CHAIRMAN GRIFFON: Yes, 144.2 is
5 the next item I have. Did you respond to that
6 in the matrix?

7 MR. HINNEFELD: Let me see.

8 MR. FARVER: Yes.

9 MR. HINNEFELD: Yes, I did.

10 MR. FARVER: Now would this be an
11 example of something that would be a DR
12 guideline?

13 MR. SIEBERT: I'm sorry, I'm still
14 tracking back to 136.

15 MR. HINNEFELD: 144.2 where it says
16 -- this is -- there's an inconsistency in the
17 ambient dose table in Los Alamos.

18 MR. SIEBERT: Oh, this is the
19 table, yes.

20 MR. HINNEFELD: Is there a guide
21 out about that?

22 MR. SIEBERT: No, I'm sure --

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1 probably it's correct in the tool, and you
2 would never assign outside the tool, so --

3 MR. HINNEFELD: So in other words
4 this is -- the additional guidance is in the
5 tool?

6 MR. SIEBERT: Right, the tool
7 handles the issue itself. It has from the
8 initial version of it. It has always used the
9 max value as opposed to the value that says
10 it's the max in that table.

11 MR. HINNEFELD: Is there a site
12 protocol?

13 CHAIRMAN GRIFFON: So the tool has
14 the correct maximum value in the table, and
15 the table has the wrong one -- the table in
16 the TBD?

17 MR. SIEBERT: The TBD has the
18 correct values across the board, except it has
19 a table that says the max, and it isn't always
20 the maximum from all the other tables.

21 CHAIRMAN GRIFFON: Okay.

22 MR. SIEBERT: It should be, but it

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1 isn't. It's a TBD issue that we're aware of,
2 and I know the TBD authors are going to fix
3 that in the next version of the TBD.

4 The tool itself from its initial
5 incarnation has always had all those tables in
6 there and assigned the maximum of them, as
7 opposed to what came out of the max table.

8 MR. FARVER: Okay.

9 MR. SIEBERT: So the maximum was
10 always being assigned, even though the TBD
11 didn't specify it correctly in the maximum
12 table.

13 MR. FARVER: Oh, no, I understand
14 the process. I'm just trying to think how
15 anyone could check those numbers then if, you
16 know, if they didn't know that.

17 In other words, if you can go to
18 the tables and pull out what should be pulled
19 -- the numbers that should be pulled out, you
20 are going to get different answers, like we
21 did when we looked at it.

22 MR. SIEBERT: Well, depends on what

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1 you say should be.

2 MR. FARVER: Okay.

3 MR. SIEBERT: If you should be
4 using the maximum table in a TBD, which has a
5 couple of entries that are wrong, yes, you
6 will get the wrong answer.

7 MR. FARVER: Okay.

8 MR. SIEBERT: But if you use the
9 maximum value from all the tables, you will
10 get the identical answers we get, which is the
11 correct answer. It's just that max table is
12 wrong and needs to be updated.

13 MR. FARVER: Did you send out a
14 notice saying, hey, this max table is wrong?
15 No.

16 MR. SIEBERT: Probably not.

17 MR. FARVER: Right, because they're
18 using the tool.

19 CHAIRMAN GRIFFON: Right.

20 MR. SIEBERT: Right. It's -- once
21 again it's something the TBD author is aware
22 of and needs to be fixed, and then it can

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1 merge into the TBD.

2 From our implementation point of
3 view, it's already covered, but from a
4 documentation point of view, I see where
5 you're coming from.

6 MR. FARVER: I'm also thinking that
7 before you do another one of these cases we're
8 going to have the same findings.

9 MR. SIEBERT: It was only -- if I
10 remember right it was only a few years that
11 had that issue. I mean, it's only three, four
12 years out of all the years.

13 MR. FARVER: Do you feel lucky?

14 MR. SIEBERT: You happened to pick
15 one of the years.

16 MR. FARVER: And that was all. If
17 we're going to run this again, it's just
18 trying to figure out how to avoid it.

19 CHAIRMAN GRIFFON: Right. I think
20 for this case it's closed, it's picked up in
21 the revised TBD. I put that down.

22 Is that the last one, and it's the

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1 last one I have.

2 MR. HINNEFELD: That's the last one
3 I had.

4 CHAIRMAN GRIFFON: I think it's a
5 good point for a break, and then maybe we can
6 -- let's look at the eighth matrix. If
7 people still have some energy I'd like to go
8 another hour, maybe with -- continue on the
9 first pass through the eighth matrix.

10 DR. MAURO: Well, I was going to
11 make a suggestion. There are --

12 CHAIRMAN GRIFFON: Yes, the other
13 cases.

14 DR. MAURO: -- that are the back,
15 which are site profile --

16 CHAIRMAN GRIFFON: Why don't we do
17 those. Have you sent --

18 DR. MAURO: Yes, we're ready to do
19 that. I think -- I think our team is still
20 there. I haven't lost some of them.

21 CHAIRMAN GRIFFON: All right.
22 That's right because Kathy told me Hans is

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1 available, and he did one of them, yes.

2 Is that okay, Kathy, if we do that?

3 We'll take a short break, 10 minutes, and
4 then we'll --

5 MS. BEHLING: That will be fine.
6 Yes, Hans is available.

7 CHAIRMAN GRIFFON: All right.

8 DR. MAURO: Which -- it's the -- in
9 the back of the eighth set it's Bridgeport
10 Brass, Harshaw, and Huntington Pilot Plant.

11 CHAIRMAN GRIFFON: And they're all
12 in the back of the eighth?

13 DR. MAURO: And they're all in the
14 back.

15 CHAIRMAN GRIFFON: Let's do those
16 because we've got the availability --

17 DR. MAURO: Right, and by doing
18 those keep in mind that most of the comments
19 on real cases that deal with those are going
20 to be addressed --

21 CHAIRMAN GRIFFON: I agree.

22 DR. MAURO: -- so by doing that we

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1 may knock off 20 cases.

2 CHAIRMAN GRIFFON: And these each
3 are at the point where you provided comments,
4 NIOSH provided responses, and now --

5 DR. MAURO: All except for
6 Huntington. I don't think we've received
7 anything back.

8 MR. HINNEFELD: We haven't given
9 you any comments on Huntington.

10 DR. MAURO: The Bridgeport Brass
11 and Harshaw are very mature. We went back and
12 --

13 CHAIRMAN GRIFFON: Okay, okay, so
14 let's do those when we come back. Let's take
15 10 minutes and then we'll attack those first.

16 MS. BEHLING: I also wanted to just
17 mention that I was a little bit late with
18 this, but I did send out two file -- two white
19 papers yesterday that will be part of this
20 discussion, so, hopefully --

21 CHAIRMAN GRIFFON: Right, and I
22 think we all got those.

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1 DR. MAURO: I brought extra copies
2 of that last one, the Bridgeport Brass one,
3 that was prepared last night. In case anyone
4 doesn't have it, I can hand out. I brought
5 extra copies.

6 CHAIRMAN GRIFFON: Okay, we'll take
7 10. We'll put you on mute, I guess --

8 MS. BEHLING: Okay, very good.

9 CHAIRMAN GRIFFON: -- and keep the
10 line on, Ted. Is that what we're going to do?

11 MR. KATZ: Yes.

12 CHAIRMAN GRIFFON: Okay, all right,
13 be back in 10.

14 (Whereupon the above-entitled matter went off
15 the record at 3:28 p.m. and resumed
16 at 3:38 p.m.)

17 MR. KATZ: Kathy, are you with us
18 and Mike?

19 MEMBER GIBSON: Yes, I'm still
20 here.

21 MR. KATZ: I thought maybe you guys
22 would be chased off by that terrible sound

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1 that came on the line right after we ended the
2 session.

3 CHAIRMAN GRIFFON: So Kathy and
4 Hans or John, I don't know who --

5 DR. MAURO: Let me -- the first one
6 I'd do is Bridgeport Brass.

7 CHAIRMAN GRIFFON: Okay.

8 DR. MAURO: Just let everybody know
9 this is different than everything we've done
10 before.

11 We actually did a mini-site profile
12 review on three AWE site profiles and prepared
13 reports with findings that were attached to
14 the back, Attachments one, two and three of
15 the eighth set of cases.

16 CHAIRMAN GRIFFON: Right.

17 DR. MAURO: So unlike what we've
18 been doing before when we were looking at a
19 particular case, we're not looking at a case
20 now. We're actually looking at a -- we're
21 doing a site profile review, for all intents
22 and purposes.

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1 On Bridgeport Brass we had a bunch
2 of findings contained in our report. Our
3 response came back from NIOSH regarding our
4 findings, and just very -- just last night
5 Hans prepared our response to that response.
6 A few folks have it on your -- machine's
7 great. If not, I have extra hard copies here
8 of Hans' comments on your comments. If
9 anybody needs them -- but with that I'll turn
10 it over to Hans, and there's a story to be
11 told here.

12 Hans, I don't know if everybody's
13 familiar with Bridgeport Brass, but you may
14 want to tell the overarching story and then
15 get into the details.

16 MR. KATZ: Do we have Hans on the
17 phone?

18 DR. MAURO: He's probably on hold.

19 CHAIRMAN GRIFFON: Kathy, Hans?
20 Hans, Kathy?

21 MR. HINNEFELD: John, Bridgeport's
22 all we're going to talk about?

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1 CHAIRMAN GRIFFON: Maybe they
2 figured 10 minutes -- regular board's 10
3 minutes is like 20 minutes.

4 DR. MAURO: I could take it. I
5 could certainly get it started. Hopefully,
6 we'll get him back, but let's --

7 CHAIRMAN GRIFFON: Why don't you
8 give the background?

9 DR. MAURO: Okay.

10 CHAIRMAN GRIFFON: Or is there
11 another one that you want to start with that
12 Hans wasn't involved with that?

13 DR. MAURO: Yes, Hans has
14 Bridgeport Brass and Harshaw, and I have the
15 last one, Huntington, but I'm very familiar
16 with --

17 CHAIRMAN GRIFFON: All right, all
18 right.

19 DR. MAURO: I'll get it started; in
20 fact, I carried it from the front end. Hans
21 did the last round --

22 CHAIRMAN GRIFFON: Okay.

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1 DR. MAURO: -- where he responded
2 to the NIOSH comments.

3 DR. BEHLING: John, this is Hans.
4 I just joined. I didn't realize you'd be back
5 this quick.

6 DR. MAURO: Hans, I just gave some
7 introductory comments regarding Bridgeport.

8 DR. BEHLING: Okay, so we're
9 starting with Bridgeport instead of Harshaw?

10 DR. MAURO: Well, I'm going in the
11 order in which they are in the attachments.
12 The first attachment is Bridgeport, and you
13 may want to tell -- I don't think everyone's
14 familiar with Bridgeport and the story, so to
15 speak. So you may want to take them to the
16 top.

17 DR. BEHLING: I guess I'm going to
18 also ask you, John, did you take some copies
19 with you that you expected to distribute?

20 DR. MAURO: Well, it sounds like
21 everyone's got them, though. Does everybody
22 have Hans's file?

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1 MR. HINNEFELD: No.

2 DR. MAURO: No? I've got a stack
3 of them. Whoever needs one, take one.
4 Anybody else?

5 CHAIRMAN GRIFFON: If you have
6 enough, I'll take it. That's easier for me to
7 read on the --

8 DR. MAURO: I want to get rid of
9 them. I don't want to carry them back. By
10 the way, the only problem some of you may have
11 is that -- some of the figures are in color,
12 but not in the copies.

13 So when you get the electronic
14 version, which should be on your machine
15 shortly if not already, you'll have the color
16 graphs.

17 CHAIRMAN GRIFFON: I have color in
18 my copies.

19 DR. MAURO: You've got my
20 originals.

21 CHAIRMAN GRIFFON: Okay, Hans,
22 we're turning it over to you.

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1 DR. BEHLING: Okay, I guess I'll
2 just follow the contents of the white paper
3 just as a review. John mentioned the fact
4 that we may want to just go over the site
5 profile to some extent in explaining what the
6 time periods were, et cetera, and that's under
7 operational history 1.1.

8 Important to note were the time
9 periods of operation from '52 to August of '62
10 for the Havens laboratory, and for the Aiken
11 plant the period of operation was from '54 to
12 '62. And, of course, we're going to be
13 looking at those dates in context with one of
14 the findings

15 Let me just briefly -- one of the
16 things I wanted to summarize is that this is a
17 composite of -- of several documents
18 obviously, starting with the actual site
19 profile or what's called the matrix for the
20 Bridgeport Brass facility.

21 And then, of course, SC&A had the
22 opportunity to review that particular matrix

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1 and identified findings one through five. And
2 those are summarized also under section one,
3 page two and three. And you can briefly scan
4 through those particular findings.

5 Obviously, this is just a summary
6 of those findings and a more elaborate
7 explanation's given in one of the appendices
8 that's also enclosed in that document.

9 In -- on January 26, 2009, NIOSH
10 issued a working draft response to the above-
11 cited findings, which are also enclosed in
12 this document as Appendix A, and I briefly
13 will summarize this.

14 In response to Finding Number 1,
15 NIOSH agrees with findings and will conduct
16 additional analyses of data. To date as best
17 as I know, we have not received those
18 additional -- that additional data, and so I
19 guess that issue requires some additional
20 evaluation down the road. And so when we talk
21 about conditional resolution, it's conditional
22 on the issue that we have access to that

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1 response, and then of course that the work
2 group agrees with that response.

3 DR. MAURO: Hans, why don't you
4 just give a brief summary of each issue so
5 that everybody has context.

6 DR. BEHLING: Okay, I can read it,
7 or you can read it with me on line on page two
8 of the report.

9 Finding 1 states the site profile
10 would benefit from additional analyses that
11 demonstrate that the default intake rates
12 adopted in Table 3-1 of ORAUT-TKBS 0030 of the
13 exposure matrix, the claimant favorable for
14 early operational periods in different job
15 categories.

16 And to just add to that, there is
17 just very little data for the earlier periods,
18 and the co-worker model is really based on
19 later time periods. And so the question
20 arises can we transport in time and space
21 information that may or may not necessarily
22 apply to the earlier time period.

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1 And as I say, the issue of Number 1
2 is that it is something that NIOSH agrees to
3 look into and will come back to us with
4 additional findings or analyses.

5 So, let me see -- where am I here?

6 Finding -- response to Finding 2,
7 let me just briefly iterate what Finding 2 is.

8 Finding 2 is the documentation from the 95th
9 percentile estimate of the external doses are
10 inadequate. In addition, it appears that the
11 default 95th percentile doses adopted by NIOSH
12 for non-penetrating and penetrating radiation
13 are low by about a factor of two.

14 And that required a fair amount of
15 explanation that you will see in the
16 attachments there that involves basically the
17 issue of statistics. Let me go and --

18 This particular response initially
19 -- and John maybe you can supplement my
20 comments -- this particular initial response
21 or finding to two was done by Harry
22 Chmelynski, who is our resident statistician,

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1 and he believes that when you look at the
2 data, and the data's really for a couple of
3 years and they involve external radiation
4 exposures as defined by a film dosimeter that
5 was issued on a two-week time interval.

6 And what was done there was to
7 essentially aggregate that data and then
8 establish a 50th and 84th percentile value and
9 then end up with something that was assigned
10 as a value to people who may not have been
11 exposed or who were not monitored during an
12 earlier time period.

13 And it is SC&A's opinion that the
14 95th percentile value is underestimated by a
15 factor of two, based on the fact the data are
16 correlated, as opposed to non-correlated.

17 And really -- I'm not that familiar
18 with the --

19 DR. MAURO: Hans, you know, let me
20 take a run at it, and is Harry on the line?

21 DR. BEHLING: No, he's not.

22 MR. CHMELYNSKI: Yes, he's on the

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1 line.

2 DR. MAURO: Harry, you know what
3 I'm going to do, I'm going to give it in my
4 layman's perspective of what was done as I
5 understand it, and then you correct me because
6 I think I've got it.

7 MR. CHMELYNSKI: Okay.

8 DR. MAURO: All right? I'd like to
9 ask everyone to open up to -- sort of like in
10 the middle of this handout is a page seven,
11 and it's called Table 1, external gamma film
12 badge results. Okay? If you have that in
13 front of you. That's the data.

14 In other words, think of it like
15 this. What we have is one through 46 on the
16 left hand side is the name of a real person.
17 We took the name out and put a number in. I'm
18 sorry, the other way around, the other way
19 around. I wasn't sure of the way you entered
20 it.

21 All right, so we have the names of
22 the people, A through R, and the numbers one

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1 through 46 are two-week readings on a film
2 badge. In other words, what we're looking at
3 is for period number one, worker number B got
4 20 milliroentgen. Okay, so these are
5 individual film badge readouts.

6 Now you say, okay, I've got all
7 this data, this matrix of data. There's your
8 starting point, and with that we want to build
9 a co-worker model for all those workers that
10 either have incomplete data or for all
11 workers, who have not been monitored. In
12 other words, one size fits all. How do we use
13 this data to build a co-worker model.

14 Now one of the -- there are a lot
15 of options that as we understand it were
16 available to NIOSH to do that. One option is
17 to collect all this data, make a big basket of
18 data, plot it out on a graph paper, and come
19 up with a log normal distribution, which it
20 might follow, and pick off the upper 95th
21 percent, two-week reading. In other words,
22 this is the -- close to one of the highest

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1 readings anyone experienced in one two-week
2 period. Multiply that by 26 and get an annual
3 dose.

4 That would be unrealistic, off the
5 charts. In other words, no one's going to get
6 every week, after week, after week, after week
7 the upper 95th percentile two-week reading.
8 So rather than do that, what my understanding
9 is that NIOSH did is they took these numbers,
10 and here's where I want to make sure I get
11 this right.

12 You go into this and you sample --
13 you take a random sample of these data and you
14 do that 26 times. This is a basket of
15 numbers, say it's 200 numbers. You reach in,
16 you pull a number out. Okay, you reach in and
17 pull a number out, and you pull out 26 of
18 those and you add them all up, okay? And then
19 you've got -- okay, I've got one-year's worth
20 of data. In other words, this is like one
21 person's number, and you do that again, and
22 you do that again, and you do that again until

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1 you've got a thousand estimates of an annual
2 dose, based on going in and pulling a number
3 out. And you plot that, and on that you pick
4 up your upper 95th percentile. That's called
5 uncorrelated data. That is -- as if each one
6 of these two-week readings were independent of
7 every other one. That's what they did.

8 They said they didn't do it, and in
9 the write-up they said, no, they did a
10 correlated analysis, but the reality is we
11 wanted to actually mail their number doing it
12 just the way I described. So we believe this
13 is an important finding. We believe that
14 though you said you did a correlated analysis,
15 you actually didn't. And the problem with
16 that is as follows.

17 If everyone is treated
18 independently, it doesn't take into
19 consideration there are some workers who have
20 a job with -- they have a job that gives them
21 a high end. By doing it uncorrelated, you
22 actually sort of average everything out, and

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1 you don't want to do it that way.

2 We -- Harry went in and he went in
3 and did a correlated analysis, and he could
4 explain what that is, but what that does is
5 take into consideration the fact that, no,
6 there are some workers who week after week
7 after week are going to have the high-end
8 exposure, or higher exposure. And so you want
9 to work -- what you really want to do is take
10 the annual dose for each worker and plot those
11 and pick off the 95th percentile from that,
12 because that would take correlation into
13 consideration. In other words, take the --
14 each worker -- you know, reach into the basket
15 and actually say well we're going to look at
16 Worker A, B, C, D. Each one will have his own
17 annual dose and plot that.

18 So we did it that way and came up
19 with a dose both for external penetrating and
20 external data using the correlated approach,
21 and we took it up with a factor of two higher.

22 Harry, did I describe that

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1 conceptually correctly?

2 MR. CHMELYNSKI: That's very close
3 to what we did, yes.

4 DR. MAURO: Okay. Anything about
5 that that you want to clarify?

6 MR. CHMELYNSKI: Well, there's a
7 difference here between the original analysis
8 that we presented to NIOSH, which dealt with
9 the pooled data alone. In other words, we
10 tried to follow their assumption that we
11 should use pooled data and then tried to
12 reconstruct their numbers, and then we did it
13 a different way.

14 Dose round what we did was actually
15 build those individual dose estimates for each
16 worker, and that's not using pooled data
17 anymore. We're actually using the individual
18 worker data, and even though some of them
19 don't have data for the whole two years we
20 were able to assign an annual dose to each
21 worker.

22 And only the difference -- rather

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1 than phrase it in terms of correlation and
2 uncorrelated data, I think the better way to
3 think of it is should data be pooled across
4 all workers for analysis, or should we be
5 looking at individuals?

6 And in our final tables here that's
7 what we were doing was looking at individuals,
8 finding that if you do it that way you get
9 higher doses at the 95th percentile.

10 DR. MAURO: Now I think -- I mean,
11 I think if you're comfortable with
12 conceptually with what we've just described,
13 there's an important difference between using
14 -- well, we have a two-fold difference, and
15 we believe that's the reason for the two-fold
16 difference. We think that though the site
17 profile states that they did in fact use
18 correlated data, we don't think you did. We
19 think that somewhere along the line you went
20 and actually did it in an uncorrelated way,
21 the way I just described it by the sampling
22 method, because when we did it that way we got

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1 your numbers.

2 So we think that's the problem.

3 Now I think that your response --

4 Now, Hans, when we -- when this
5 exchange took place, what's NIOSH's current
6 position on this issue from the last go
7 around?

8 DR. BEHLING: Okay, let me go --
9 You have to have it in front of you, John.

10 DR. MAURO: Okay.

11 DR. BEHLING: That is defined in --

12 DR. MAURO: What page -- what page
13 should we look at in your report?

14 DR. BEHLING: It's Appendix A, and
15 it's page two of Appendix A.

16 DR. MAURO: Page two?

17 DR. BEHLING: Yes.

18 DR. MAURO: Okay, here we go.

19 CHAIRMAN GRIFFON: Can I ask just a
20 housekeeping question? Do we have this
21 Appendix A in a Word document, because I want
22 to cut and paste it into a named matrix.

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1 MS. BEHLING: Yes.

2 CHAIRMAN GRIFFON: You do? Do I
3 have that Kathy, or can you provide it?

4 MS. BEHLING: Yes, I'll --

5 CHAIRMAN GRIFFON: All right,
6 that's just a -- but I just want to keep this
7 in the main matrix, also.

8 DR. MAURO: Yes, unfortunately,
9 right now what you have is a report.

10 CHAIRMAN GRIFFON: That's fine.
11 Just for tracking, I want --

12 DR. BEHLING: John, do you have the
13 hard copy in front of you?

14 DR. MAURO: Yes, everyone does,
15 yes.

16 DR. BEHLING: Yes, as I said, the
17 response, the NIOSH response is really defined
18 in the summary findings matrix --

19 CHAIRMAN GRIFFON: Right.

20 DR. BEHLING: -- it's just a, you
21 know, a column of statements, and you will --
22 I can read it for you if you can't put your

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1 hands on it. In response --

2 DR. MAURO: You're good, okay. But
3 I guess the point is that this is one of the
4 places where we're still in disagreement. I
5 think that NIOSH's position is, no, we're
6 okay, and our position, no, I don't think
7 you're okay.

8 CHAIRMAN GRIFFON: John, can you
9 explain, or Harry maybe, on page 13 in the
10 back the difference between -- and I'm just
11 looking at this for the first time, too -- the
12 difference between individual doses,
13 annualized dose, and your 95th there versus
14 your SC&A simulation with 100 percent
15 correlation?

16 DR. MAURO: Harry, do you have a
17 copy of Hans's report?

18 MR. CHMELYNSKI: Yes. I'm looking
19 at the table now. Essentially, the pooled
20 data columns are the original finding and
21 that's as far as we went in our original
22 analysis. The individual dose analysis was

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1 added as part of this white paper, so that's
2 just in terms of background where these came
3 from.

4 Now the pooled data calculations,
5 both of those used the log normal distribution
6 that John described earlier, which is to take
7 all the numbers that you saw in Table 1, put
8 them on a curve, and come up with a
9 distribution. And what you have is the
10 distribution of two-week measurements, and
11 then the question where we differ in the two
12 columns here between NIOSH and SC&A is how we
13 treated the distribution of the two-week
14 measurements.

15 That distribution -- when NIOSH did
16 it in their column, it says no correlation.
17 They did theirs by picking 26 random numbers
18 and taking the sum of them.

19 Now what I did was -- was
20 essentially to take the two-week distribution
21 and multiply it times 26, to get an annual
22 dose, which would be the 100 percent

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1 correlated idea that in every two-week period
2 this worker would get the same number if he
3 did the draw and, therefore, we could estimate
4 his annual dose by multiplying by 26.

5 And the individual dose
6 calculations are completely different.
7 They're not based on pooled data. What I did
8 there was I looked it on the column for each
9 worker and said, well, here we have his dose
10 totaled over x number of weeks, which may have
11 been more than a year or less than a year, and
12 I calculated what the implicit average annual
13 dose was for that worker. That gave me doses
14 for twenty some workers, which I could put on
15 a curve and pick the 95th percentile from.

16 So the individual doses do not use
17 the pooled data distribution that John
18 described originally. They use the individual
19 annual doses, of which I only had 20 workers,
20 so that's -- I had to fit a curve and pick the
21 95th off of that.

22 DR. MAURO: So am I correct -- let

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1 me see if I got this right. So if you used
2 the individual doses and you plot them, you
3 get a 95th percentile annual dose of 634?

4 MR. CHMELYNSKI: Right.

5 DR. MAURO: As compared to the 452
6 obtained by NIOSH --

7 MR. CHMELYNSKI: Right, and if were
8 to 100 percent correlate it, which is either
9 side that at the beginning may be too high
10 because it's based only on the two-week data,
11 we do get something much higher, which is
12 twice as high as NIOSH.

13 So there's three different numbers
14 here, and they sort of lie where we might
15 think they would have come out.

16 DR. MAURO: Okay. Just to get the
17 634 again, so this is actually taking each
18 person --

19 MR. CHMELYNSKI: And estimating his
20 annual dose --

21 DR. MAURO: Okay.

22 MR. CHMELYNSKI: -- on average over

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1 that period.

2 DR. MAURO: Okay.

3 MR. CHMELYNSKI: And then having a
4 collection of individuals and taking the 95th
5 percentile of those individuals.

6 DR. MAURO: Okay. So what we
7 really have is that there are three different
8 ways you could come up with a 95th percentile.

9 The approach taken by NIOSH that we
10 believe is probably not claimant favorable.
11 Whether you want -- now there are two other
12 approaches you're presenting, one that gives
13 you a number that's 634 versus 452 millirem
14 per year versus the 955.

15 I guess -- here's the story. We do
16 think there's a problem. We do think there's
17 a problem with the current matrix. What the
18 solution might be, you know, is to go back and
19 take a look, and maybe you want to take a look
20 of doing it in a correlated way and, you know,
21 coming up with your own approach, but we're
22 think you're too low.

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1 MR. HINNEFELD: Okay, this is Stu
2 Hinnefeld. I just want to ask Harry one more
3 time for the column, the FTA simulation, 100
4 percent correlated --

5 MR. CHMELYNSKI: Yes.

6 MR. HINNEFELD: I think I've
7 forgotten what you described. Those were --
8 could you describe one more how -- how you
9 arrived at -- that distribution was generated?

10 MR. CHMELYNSKI: Well, okay. The -
11 - if were to take the two-week distributions
12 and pick off the 95th percentile, that would
13 be what we would call the 95th percentile or
14 the two-week data.

15 MR. HINNEFELD: That two-week
16 period, okay.

17 MR. CHMELYNSKI: And if we had a
18 100 percent correlation, we would have 26 of
19 those identical numbers in a column --

20 MR. HINNEFELD: Right, okay.

21 MR. CHMELYNSKI: -- and I -- and
22 rather than putting them all in a column I

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1 just multiplied one of them by 26, because
2 they're all 100 percent correlated.

3 MR. HINNEFELD: So -- okay. So you
4 took a two-week -- in other words you took --

5 MR. CHMELYNSKI: I took the two-
6 week distribution, and I picked a draw from it
7 and then I multiplied it times 26 to get an
8 annual, yes.

9 DR. MAURO: When you say you took
10 the two-week distribution, what do you mean --
11 in other words, we've got a bunch of numbers
12 in that table. What do you mean by the two-
13 week distribution?

14 MR. CHMELYNSKI: Well, the log
15 normal with 1.45 and sigma 1.31 in that
16 particular -- for the gamma dose, but it is
17 the distribution you described at the
18 beginning, which is to take all the Table 1
19 numbers and put them on a log normal plot and
20 pick off the 95th.

21 DR. MAURO: Oh, okay, so --

22 MR. HINNEFELD: Oh, okay --

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1 DR. MAURO: Okay, so treated each
2 one, you treated each individual measurement
3 on Table 1, plotted that --

4 MR. CHMELYNSKI: All pooled -- yes,
5 the pooled data from Table 1 all on one
6 distribution.

7 MR. HINNEFELD: All on the single
8 frequency distribution, and then you --

9 MR. CHMELYNSKI: Right, and I think
10 we both used that distribution. The only
11 question is how do we use the pooled data
12 distribution. That's how we differ in these
13 two columns.

14 DR. MAURO: Okay. Well, let me see
15 if I understand that. In other words, if I
16 were to take all these numbers, all 200 of
17 them, whatever they are and rank order them
18 from top to bottom. Let's forget about log
19 normals and everything, and I picked off the
20 upper 95th percentile number, then multiplied
21 that by 26, would that come pretty close to
22 the number you got?

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1 MR. CHMELYNSKI: Yes.

2 DR. MAURO: Okay, I would say
3 that's overly conservative.

4 MR. CHMELYNSKI: I agree.

5 DR. MAURO: Okay.

6 MR. CHMELYNSKI: And that's -- and
7 like I said, that one comes out the highest.

8 DR. MAURO: Okay. Now the way I
9 would do it is I would take each person. Now
10 we don't have that many people, but somehow
11 get an estimate of --

12 CHAIRMAN GRIFFON: That's your
13 first column --

14 MR. CHMELYNSKI: And that's the
15 first column.

16 CHAIRMAN GRIFFON: Right,
17 individual column.

18 DR. MAURO: I like that better.

19 CHAIRMAN GRIFFON: Oh, yes.

20 DR. MAURO: I've got to tell you
21 until now in having this conversation around
22 the table, I wasn't quite sure of which

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1 approach was used. I like the 634 better, so
2 it's not a factor of two, it's one point five.

3 Okay, and that probably also goes
4 for the data, the non-penetrating. Good.

5 CHAIRMAN GRIFFON: I don't know
6 that we're good, but --

7 DR. MAURO: We're communicating.

8 CHAIRMAN GRIFFON: I understand the
9 issue, yes.

10 MR. CHMELYNSKI: I guess the point
11 of this discussion, the reason why this ended
12 up catching my eye in a sense was because when
13 you read the original site profile or exposure
14 matrix, it says that when we did the
15 simulation we did take correlation into
16 account.

17 CHAIRMAN GRIFFON: Yes.

18 MR. CHMELYNSKI: But yet I don't
19 see where that was done. And the individual
20 dose approach is a way of trying to bring the
21 correlation back into it. It doesn't use the
22 same distribution as you used, but it's

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1 another way of looking at the problem.

2 CHAIRMAN GRIFFON: Can you explain
3 why the -- why the beta dose for the
4 individual doses doesn't -- those three
5 numbers that we just discussed for gamma dose
6 why they don't fall out the same way for the
7 beta dose. In other words, your individual
8 dose is lower than the NIOSH estimate?

9 DR. MAURO: That's a good question.

10 MR. CHMELYNSKI: I agree. It comes
11 out -- well, actually, I'm not sure myself.

12 CHAIRMAN GRIFFON: Okay. I just
13 wondered if there were an obvious reason or
14 not.

15 MR. CHMELYNSKI: No, they are two
16 different approaches --

17 CHAIRMAN GRIFFON: Yes.

18 MR. CHMELYNSKI: -- and that's how
19 it came out.

20 CHAIRMAN GRIFFON: Okay.

21 DR. MAURO: I've got to say it's
22 counterintuitive that the -- in the beta --

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1 you know, you would expect that if you picked
2 -- you have all these two-week numbers, you
3 would expect a 95th percentile of those to
4 always be higher than when you do -- you know,
5 when you take a person for a year.

6 So I don't know why that's --

7 CHAIRMAN GRIFFON: You don't touch
8 the final number, right? That's the 7-3-6 --

9 DR. MAURO: Oh, no, I'm sorry, I'm
10 sorry. No, I take it back.

11 CHAIRMAN GRIFFON: That's way
12 higher. It doesn't make sense to me. So that
13 makes sense, that part.

14 DR. MAURO: It makes sense.

15 CHAIRMAN GRIFFON: The first column
16 I was curious about.

17 DR. MAURO: So what we're really
18 saying to non-penetrating radiation, it looks
19 like your approach is fairly in agreement.

20 MR. CHMELYNSKI: Yes, they come out
21 about the same.

22 DR. MAURO: So the real -- the only

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1 problem area we -- this is good. The only
2 problem area --

3 CHAIRMAN GRIFFON: There had to be
4 a logical explanation for that why it differed
5 so much for gamma and not as much for beta.

6 DR. MAURO: So that -- if the
7 penetrating --

8 CHAIRMAN GRIFFON: I'm not sure
9 it's intuitively obvious.

10 MR. SIEBERT: And this is pulling
11 the data from Table 1 and Table 2?

12 CHAIRMAN GRIFFON: Yes, it looks
13 like it.

14 MR. SIEBERT: The question I have,
15 in Table 1 and Table 2 do the dashes mean no
16 monitoring or no detection?

17 MR. CHMELYNSKI: I would -- I'm not
18 sure. It means we had no data for that time
19 period. Now why I'm not sure.

20 MR. SIEBERT: My question there is
21 when you do an individual dose are you just
22 taking the percentage of the years that they

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1 were monitored and then multiplying to make it
2 a full year --

3 MR. CHMELYNSKI: Yes.

4 MR. SIEBERT: -- because then if
5 somebody's monitor it for a short amount of
6 time but has more dose, they're going to be
7 skewing the distribution?

8 MR. CHMELYNSKI: Yes, and that
9 could be the effect here.

10 MR. KATZ: I think that's why you
11 have these two different results.

12 MR. CHMELYNSKI: You get two
13 different results, yes.

14 MR. SIEBERT: I look at, you know,
15 Person M and he has less data than most but he
16 has some of the higher results and he's
17 probably pushing the distribution up if he was
18 multiplied to make him a full year.

19 MR. KATZ: I agree. I think that's
20 why you get these different results with beta
21 and gamma. Just looking at the data it just
22 makes sense.

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1 MR. CHMELYNSKI: I guess the plots
2 tell me that story here is there are some
3 workers who routinely were in rather exposed
4 jobs and others who weren't, and that's
5 literally where I have a problem with pooling
6 the data when you have that situation.

7 DR. MAURO: And now we're at a
8 point where it's really a judgment call. That
9 is, we know that there are people -- some
10 people -- that got substantially higher doses
11 than others. You know, how do you want to
12 build your co-worker model.

13 You want to make sure that everyone
14 -- no one is underestimated. Certainly, the
15 non-correlated approach you're going to run
16 into a problem. Correlated approach and how
17 you process this data, sort of the kind of
18 questions you just asked Scott, is something
19 you've got to think about and decide what is
20 the way to do it so that at the end I have a
21 degree of confidence that everyone is going to
22 -- no one dose is going to be underestimated,

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1 because that's really our goal. You want to
2 make sure that no one is underestimated.

3 Right now I think -- the problem
4 quite frankly wasn't as serious as I thought
5 with a dose factor of two. It clearly is less
6 than that, but I still think there's something
7 that has to be dealt with here.

8 CHAIRMAN GRIFFON: Do we know -- I
9 mean, what percentage of the workers were
10 monitored at Bridgeport? I mean, you have A
11 through R here, but how many -- how many
12 people are going to rely on co-worker models
13 entirely?

14 DR. MAURO: I don't know.

15 CHAIRMAN GRIFFON: I don't know
16 either.

17 DR. MAURO: Hans, you want to move
18 on to the next issue?

19 DR. BEHLING: Yes, if we're through
20 with that one. Issue Number 3. Issue Number
21 3 centers around the concern regarding the
22 ability to reconstruct extremity doses, skin

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1 doses to the extremity, but perhaps also skin
2 doses to other parts of the body that were
3 perhaps not properly monitored by way of a
4 film badge that's worn on the chest and shows
5 as a whole body exposure.

6 And we do know the fact that these
7 people were probably not given anti-c's --
8 anti-contamination clothing, nor were they
9 probably frisked on the -- when they left a
10 radiologically controlled area, et cetera. So
11 the question arises can we rely on a film
12 badge data that's a film badge dosimeter that
13 was worn on the chest to account for skin
14 exposures to the extremities or perhaps skin
15 exposures to other parts of the body where the
16 potential exists for a skin contamination,
17 clothing contamination, which would obviously
18 not be picked up.

19 And of course the response on the
20 part of NIOSH was that while they agreed that
21 this potential problem exists, it doesn't --
22 it's not like it could be one that would

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1 happen frequently, and they also feel that the
2 decision on how to adjust exposure in a
3 claimant favorable manner is left to the dose
4 reconstructor's judgment.

5 And we feel that's leaving too much
6 responsibility on the shoulder of the dose
7 reconstructor and we believe we've done it in
8 other instances where we realized that
9 exposures that are being monitored by a chest
10 location is not necessarily going to give you
11 the proper exposure to other parts of the
12 body. We found out in the case of people who
13 work in glove boxes, et cetera.

14 And while NIOSH acknowledges this
15 potential deficiency but believes that a
16 judicious approach on the part of the dose
17 reconstructor is adequate, we believe that
18 some guidance is needed here and can be in the
19 form of providing at least a strong statement
20 that says when you have a cancer that involves
21 exposure to the extremity or perhaps to some
22 other body part that may have been exposed to

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1 skin contamination or clothing contamination,
2 some additional guidance is necessary here.

3 And so at this point it is
4 something that we feel can be resolved, but it
5 will require some additional guidance on the
6 part of NIOSH to introduce that into the
7 matrix.

8 DR. MAURO: I'd like to add a
9 little something, too. The issue of --
10 ultimately, we're really going toward OTIB, I
11 think, 17, which is your non-penetrating
12 radiation protocol.

13 There are two issues here that I
14 think they're universal. One is that you
15 really can't use film badge, non-penetrating
16 to be a good indicator of what different parts
17 of your body might have experienced.

18 It's your exposure at a distance
19 from data basically, and, you know -- and I
20 guess we're concerned that a person's hands,
21 arms, forearms, neck, especially if you're in
22 a situation where there's a real potential for

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1 air particulates to deposit on the body. This
2 issue has come up on Nevada test site, and
3 it's come up on a lot of the AWE facilities
4 where we know there was a lot of airborne
5 particles being generated.

6 And right now I think that this is
7 -- this issue -- I think NIOSH has a pretty
8 good handle on being able to adjust or account
9 for the fact that maybe the hands were closer
10 to the source than the chest, and there were
11 adjustment factors.

12 We did that with the -- what do you
13 call it -- the glove boxes. There was a
14 factor of 1.4 of two or something like that --
15 adjustment, which seemed to make sense. You
16 know, that wasn't done here, but of course
17 this isn't a glove box.

18 But the place that we're really --
19 I'm not quite sure how this is going to be
20 resolved is particles landing on a person and
21 kind of a localized dose it could give,
22 because I had a case that a person had cancer

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1 on the neck and in the ear, several cancers.
2 And you say, you know, you can almost conceive
3 of particle deposition in that area, and given
4 a localized dose -- and if you can't discount
5 the possibility of that kind of scenario, you
6 know, what do you do?

7 You know, he's wearing a film badge
8 over here, and you know the kind of job he
9 had, he could very well have gotten some -- he
10 was a guy at Paducah, could easily have gotten
11 some skin contamination.

12 CHAIRMAN GRIFFON: That's, yes.
13 That's a difficult one, isn't it because if
14 you --

15 DR. MAURO: Yes.

16 CHAIRMAN GRIFFON: -- then you're
17 almost to a point where, I mean, there's not
18 going to be records necessarily for every
19 particle, you know?

20 DR. MAURO: I've got to -- you
21 know, I'm just putting it on the table. This
22 is a very difficult problem.

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1 CHAIRMAN GRIFFON: Right.

2 DR. MAURO: But, nevertheless, I
3 think it's real. I think it's a challenge.
4 What do you do? I know if I was working at
5 Paducah for many, many years, knowing that I
6 was dealing with a lot of airborne
7 particulates being generated, sometimes you
8 could even see them, and I came down with
9 multiple cancers around my neck and ear, right
10 where the particles might stick, increases,
11 I'd say, you know, you've got to tell me why
12 it wasn't that that didn't cause my skin
13 cancer. That would be me, if that was me.

14 I think that we -- all of us have
15 an obligation to answer that question.

16 MR. HINNEFELD: You know, that's
17 come up before.

18 CHAIRMAN GRIFFON: Yes, we've
19 talked about that.

20 MR. HINNEFELD: I don't have
21 anything better -- to say than last time.

22 DR. MAURO: Where we left it the

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1 last time was to try to parse sites, where
2 that was a real concern. That is, it really
3 could have happened. Nevada test site was
4 agreed, yes, that could have happened there
5 because of the nature of the contamination,
6 and many of these uranium --

7 MR. HINNEFELD: Uranium plants that
8 closed operations.

9 DR. MAURO: -- where they were --
10 especially where they were machining uranium,
11 where there were airborne particulates
12 settling. Those are two places.

13 And I know that, for example, at
14 least with regard to uranium, it's pretty
15 straightforward to figure out, you could
16 probably place an upper bound on what the dose
17 might be under the skin where a small particle
18 of uranium might land. You run the bar skin.
19 We've done some calculations, and of course
20 you have to ask how often does it happen.

21 CHAIRMAN GRIFFON: Right.

22 DR. MAURO: I don't know the

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1 answer, but I think we have an obligation to
2 deal with this.

3 MR. HINNEFELD: You know, a
4 decision like that almost has to be kind of a
5 policy decision; don't you think? I mean,
6 there's -- there is no evidence --

7 CHAIRMAN GRIFFON: That's what I
8 was just thinking, yes.

9 MR. HINNEFELD: There is no
10 evidence that it happened --

11 DR. MAURO: Right.

12 MR. HINNEFELD: There is no
13 evidence that it didn't happen. We can't
14 expect every -- it would almost have to be
15 essentially a policy decision that because of
16 that this is what we will do and everybody
17 gets this for skin cancer. I mean, that's
18 what would have to happen, I think, rather
19 than try to find out, you know, through -- I
20 don't know of any possible way to research
21 this and get an answer.

22 So, okay, well, I've started

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1 chatting with -- about that back at the
2 office. I'll try to get some more attention
3 on it and just see what people think. I've
4 already gave my opinion, which I understand is
5 exactly what you're saying. You know, I
6 hesitate to go down that road because I don't
7 know where you stop, and so you just have to
8 have a policy decision.

9 CHAIRMAN GRIFFON: Yes.

10 MR. HINNEFELD: This is where --
11 this is what you do.

12 DR. MAURO: Hans, next one.

13 DR. BEHLING: Yes, the next one is
14 -- okay, the initial finding is stated as
15 follows. The site profile would benefit from
16 a quote leave one out analysis of the data.

17 And since we have Harry Chmelynski
18 on the phone I would actually want to defer to
19 Harry's assessment of that particular finding.

20 I will state that NIOSH has agreed that
21 additional analysis of this finding is
22 necessary and will be provided upon

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1 completion; however, since probably most of
2 the people here have not heard of this
3 particular technique I will ask Harry, if he's
4 still on the phone, to perhaps give just a
5 brief explanation of what the leave-one-out
6 analysis really is representative of.

7 Harry?

8 MR. CHMELYNSKI: Okay, the leave
9 one out is a rather simple version of
10 resampling kind of approaches to determining
11 how uncertain the answers are. In particular,
12 since we're dealing with co-workers who may
13 have missing data, eventually this motto would
14 be applied to.

15 I was thinking that what we ought
16 to be doing is looking at some examples of --
17 well, if we have some workers who -- we
18 actually have them today is that we know who
19 they are, but if we left them out and used the
20 data set to build a co-worker model and then
21 went back and see how it worked for those
22 individuals that we left out, we would have an

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1 out-of-the-sample kind of measure of the
2 effectiveness of the co-worker model.

3 And this in general is a good
4 technique for -- for cases where we would like
5 to know how the model works on cases where it
6 hasn't -- where we haven't been able to see
7 the data. In other words, we always know when
8 the person was in the database that we built
9 the model with, it's not going to be that bad.

10 But when you use the model to
11 predict some people who are not in the
12 database, it may be completely different. And
13 this is a way of simulating that kind of
14 analysis, to leave them out and don't use them
15 to estimate the model.

16 MR. HINNEFELD: Is that person
17 randomly selected, or do you systematically
18 leave somebody else out?

19 MR. CHMELYNSKI: Well, generally,
20 you -- yes, generally, you systematically go
21 through and leave each one of them out, one at
22 a time --

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1 MR. HINNEFELD: Leave all of them
2 out.

3 MR. CHMELYNSKI: -- and see how it
4 works, but it's not necessary you run it that
5 often. You can only leave a sample of them
6 out and build, you know, 10 models with 10
7 different subsets of the data and see how the
8 left-out person is predicted.

9 DR. MAURO: So you get an array of
10 -- for example, right now we have an estimate
11 of the 95th percentile using correlated data,
12 whatever that dose was, 635.

13 MR. CHMELYNSKI: Right and we used
14 all 18 individuals when we built that log
15 normal model that is underlying all of this.

16 DR. MAURO: Right. So you're
17 saying let's do 18 of these by leaving one
18 person out each time and see how different
19 that 635 is?

20 MR. CHMELYNSKI: Yes, see how it
21 does on the one we left out.

22 DR. MAURO: Got you.

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1 MR. CHMELYNSKI: And to tell you
2 the truth what happens is when you leave out
3 the high guy you often find, wow, gee, the
4 model doesn't really know he's there now, and
5 the model doesn't work very well.

6 So I'm just warning you that this
7 can lead to some -- some situations where
8 you're not so confident that the model's
9 working well anymore. That's why I suggested
10 it might be something that should be adopted
11 as a more general principle, rather than just
12 here for Bridgeport.

13 DR. MAURO: Well, this goes towards
14 your question, Mark. If you only have a
15 limited number of people that have been
16 monitored but there are lots of people that
17 could have been exposed -- okay, let's say
18 like we have 17 people that were -- whatever
19 it is -- but we know that there were 200
20 people that might have been exposed. I'm
21 making this up.

22 This is a thought problem more than

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1 anything else because it's really basically
2 we're putting the time back in your court
3 again relating to this concept.

4 So what happens is that if this
5 exercise, by leaving one behind, shows when
6 you do that, the results change by an order of
7 magnitude, the 95th percentile. Again, I'm
8 making this up.

9 What this means is you might not
10 have sufficient data to build a co-worker
11 model, especially --

12 Now if it turns out all these 17
13 people -- there are only 20 people and we've
14 got 17 of them, well maybe they're fine.

15 But if you've got a lot of people,
16 that means it's very possible there are many
17 people -- that's what the leave one behind
18 would tell you. There might be many people
19 out there that could have gotten higher doses
20 than anyone that's even in this table.

21 So I guess that's -- I mean, it's
22 almost like common sense argument. Yes,

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1 that's true. And I think that your question
2 is very important.

3 CHAIRMAN GRIFFON: But it may not
4 be a completely random 20 either, you know?
5 Like if it's the highest exposed, so that
6 changes --

7 DR. MAURO: That's true. That's
8 true, too. I agree with that, a hundred
9 percent. But there's a lot --

10 CHAIRMAN GRIFFON: Right.

11 DR. MAURO: And it's a good place
12 to evaluate many issues that we've been
13 struggling with for long time, this one
14 particular site, and it will go toward so many
15 things that we've been talking about.

16 CHAIRMAN GRIFFON: So -- by the
17 way, I've been keeping actions here for the
18 last two. That one, Stu, I did put down an
19 action that NIOSH will follow up with staff
20 regarding potential policy on this hot
21 particle type question.

22 MR. HINNEFELD: Yes.

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1 CHAIRMAN GRIFFON: And then for
2 this one I just put it as a continuation of
3 the NIOSH response that you're going to
4 further assess this. Is that -- that fair?

5 MR. HINNEFELD: I think that's one
6 of these we did.

7 CHAIRMAN GRIFFON: Yes.

8 MR. HINNEFELD: Well, I mean, I
9 guess. I mean, it can go in a couple of
10 places, one is the continuing open, unresolved
11 issue having to do with how the distributions
12 were coded.

13 CHAIRMAN GRIFFON: Right.

14 MR. HINNEFELD: So that is clearly
15 unresolved, there needs to be additional
16 discussion on that issue, but it seems like
17 the leave-one-out analysis is perhaps beyond
18 that, as well.

19 And it sounds like whatever we can
20 learn about the size of the radiological
21 population during the time that they monitored
22 -- they probably didn't monitor 18 at a time,

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1 in fact, would be also instructive about the
2 amount of confidence you can have in your co-
3 worker model, which of course is obvious.

4 DR. MAURO: Right.

5 MR. HINNEFELD: All right.

6 DR. MAURO: Hans, we've got one
7 more, the last one, Finding 5?

8 DR. BEHLING: Yes, this is -- this
9 is going to be a little more time consuming
10 because the actual, initial finding is quickly
11 resolved. The initial finding stated the
12 following, that it appears there is a
13 misstatement in the site profile, in the
14 actual surface contamination level used to
15 divide inhalation exposure associated with the
16 residual radioactivity about a hundred fold
17 lower than the stated value of 23,460 dpm per
18 hundred centimeters squared.

19 Let me just correct that. That is
20 probably the correct value; however, what is
21 really is nothing more than a typographical
22 error that occurs in the TBD on page 33. In

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1 Table 5.1, based on that particular surface
2 contamination level of 23,460 dpm per hundred
3 centimeters squared, NIOSH divides an airborne
4 level for respiration and then divides a daily
5 intake.

6 And I calculated that value. It
7 turns out to be 6.9 picocuries per day, if you
8 average over 365 days, which is what basically
9 you need to do. And that number is correct
10 actually in the text of the matrix, because
11 I'm looking on page 33 of the Bridgeport
12 matrix and it says and I'll quote "multiplying
13 the estimate air concentration by an air
14 intake rate of 2,400 cubic meters per work
15 year results in a calculated uranium
16 inhalation intake of 2,540 picocuries.

17 And if you take 2,540 picocuries as
18 an annual exposure that's based on 2,000 hours
19 of work at 1.2 cubic meters per hour
20 inhalation rate, you end up with seven
21 picocuries per hour, which turns out to be the
22 number that I also derived independently.

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1 And if you look at the actual value
2 in Table 5-1, you have 6.6, and that would
3 have been correct if you would have started
4 there, but you have in there 6.66, E⁻² and
5 hence you're off by a factor of 100, and I
6 believe that's nothing more than a
7 typographical error when you view that in
8 context with the statements that were written
9 in the text of 2,540 picocuries per year that
10 is based on 2,000 work hours and 1.2 cubic
11 meters of inhalation per hour.

12 So it's nothing more than a
13 typographical error, and the only thing you
14 need to do really is to correct the values in
15 Table 5-1 and convert 6.6 E⁻² to something
16 like seven picocuries per day as the value.

17 And I think I explained that in my
18 write up, but here comes the issue here that I
19 want to spend a little time with. If you go
20 to my white paper and look at Section 3.0 on
21 page four, I have a topic called the new issue
22 concerning Finding 5.

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1 And I briefly go over this whole
2 issue of the 6.66 E^{-2} picocuries per day as
3 an error, and I recalculate that value as you
4 see at the bottom of the page and say the real
5 value should have been seven picocuries per
6 day. But that's really not the issue.

7 What I was concerned about is the
8 following. We start out with a single value,
9 a single measurement, and that is a 23,460 dpm
10 per hundred centimeters squared surface
11 contamination that is assumed to be all alpha
12 activity. And then you convert that into --
13 by multiplying times a hundred you get the
14 activity, surface contamination activity per
15 square meter, and for -- for deriving the air
16 concentration, NIOSH assumes a re-suspension
17 factor of E^{-6} per meter.

18 Now that's a value that has been
19 used in the past in one of the TIBs, and I was
20 questioning that, and I questioned that in my
21 review of the -- the OTIB, and I'm going to be
22 looking at this again in context with this

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1 particular write-up here.

2 If you look at the write-up that I
3 have under Section 3 you will see that I had -
4 - I had reviewed OTIB-70 and provided data
5 that suggests that for a facility that has not
6 been decontaminated but simply had stopped
7 doing that work and is now doing other work,
8 the potential re-suspension factor can be as
9 slow as minus three, to minus four. In
10 effect, a hundred to a thousand fold higher.

11 And one would now, for instance,
12 question whether or not my assessment of that
13 situation is correct, but let me go down and
14 say -- let's go a step further and look at
15 what was quoted in this particular matrix for
16 Bridgeport, and you will see that in a
17 quotation that is on page five of my write up
18 where they talked about the 1961 assessment
19 that is based on the 23,460 dpm per hundred
20 centimeters squared contamination that is now
21 by way of re-suspension factor converted into
22 an air concentration that turns out to be

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1 roughly 2.3 dpm per cubic meter, and if you
2 convert that into picocuries, in essence it is
3 one picocurie per cubic meter.

4 That's basically what you -- you
5 might want to just jot that on the margin.
6 One picocurie per cubic meter is the air
7 concentration that is derived using 23,460 dpm
8 per hundred centimeters squared and applying a
9 re-suspension factor of E^{-6} , okay?

10 So that is our starting point for
11 drawing a comparison that says do we really
12 trust the E^{-6} re-suspension factor in
13 converting a surface contamination into an air
14 concentration.

15 And the reason that I raise that
16 question is if you read that particular
17 quotation that comes from page 32 to 33 from
18 the Bridgeport matrix -- let me read it for
19 you, in case you don't have it in front of
20 you.

21 In the matrix, the following
22 statements are made on page 32 and 33. "The

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1 documentation reviewed indicates there was
2 residual contamination outside the listed
3 operational period of 1954 to '61," and then
4 in parenthesis, "specifically '62 through
5 '76."

6 It goes on "to estimate internal
7 exposure from residual activity, this analysis
8 assumes that the median uranium exposure was
9 associated with uniform contamination of the
10 Adrian plant to a level of 23,460 dpm per
11 centimeters squared. This was the maximum
12 alpha contamination level fixed in total
13 measured in the 1961 survey of the Adrian
14 plant.

15 Using a re-suspension factor of E^{-6}
16 per meter results in an air concentration of
17 $1 E^{-12}$ microcuries per ml, which is consistent
18 with a higher 1976 air concentration
19 measurement," and then they define that
20 measurement in 1976 as 33.2 percent of the
21 maximum permissible concentration of $3 E^{-12}$
22 microcuries per ml prior to the

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1 decontamination.

2 Okay, these are some weird numbers
3 here to convert, but when you convert 1 E⁻¹²
4 microcuries per ml, it turns out to be the
5 same as one picocuries per cubic meter. So 1
6 E⁻¹² microcuries per ml is equal to one
7 picocurie per cubic meter.

8 And as I stated earlier, this was
9 derived in 1961 from a surface contamination
10 level and then applying the 1 E⁻⁶ re-
11 suspension factor.

12 And the phrase that caught my
13 attention was that that particular 1 E⁻¹²
14 microcuries per ml were one picocurie per
15 cubic meter, in 1961 is actually less than a
16 measured air contamination measurement that
17 was taken 15 years later in 1976.

18 And I go on to explain that
19 particular issue on the bottom of page six and
20 on to the next one. If you -- first of all,
21 there was a mistake in that quotation because
22 it's not 33.2 percent of the maximum

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1 permissible concentration of 3 E^{-12}
2 microcuries per ml, it is, in fact, and I
3 included the particular document in Appendix D
4 of the document where that came from. It is
5 actually 5 E^{-12} , so in essence what it really
6 comes down to the bottom line is that the air
7 contamination level that is derived in 1961
8 from a surface contamination using the E^{-6}
9 re-suspension factor is actually only 60
10 percent of a measured air concentration that
11 was taken in 1976, 15 years later.

12 And what of course -- that is
13 obviously something that you cannot assume is
14 consistent, based on the simple fact that up
15 to this point in time in OTIB-70, NIOSH has
16 assumed that you have a daily source depletion
17 rate of one percent.

18 So you actually over 15 years you
19 increase the air concentration for one
20 picocurie per cubic meter to 1.66 picocuries.

21 In other words, you increase it by 66
22 percent, and, of course, you wouldn't expect

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1 that based on source term depletion, which
2 NIOSH has insisted is -- it can be assumed to
3 be one percent per day. In fact, 15 years
4 later no matter what you started out with you
5 would expect nothing.

6 And so here you have a situation
7 where you have a derived air concentration
8 that makes an assumption of a re-suspension
9 factor in 1961 that is less than a measured
10 air concentration 15 years later that is 1.66
11 times higher.

12 And so what I've basically stated
13 is that you can only reconcile that by one or
14 a combination of two things. Either your re-
15 suspension value of 1 E^{-6} is wrong, or you
16 have basically a no depletion at all -- and
17 or. And my gut feeling is obviously the re-
18 suspension factor is possibly off by a three
19 orders of magnitude, and you have a depletion
20 factor that's considerably less than the one
21 percent that OTIB-70 predicts.

22 And rather than discuss this, I

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1 think we can defer to the resolution of OTIB-
2 70 in my review -- OTIB-70 on those two very
3 issues. But here's a classic case where we
4 look at the application of OTIB-70, which is
5 designed for post-operational periods, and
6 realize it simply cannot match the actual
7 numbers that we have to work with here, and
8 here's a classic case.

9 I'm not sure if everyone followed
10 the issue here that is defined as a new
11 finding, but I think it's an important one,
12 especially in context with OTIB-70, which has
13 yet to be discussed.

14 MR. HINNEFELD: This is Stu
15 Hinnefeld. I followed the issue. It's well
16 described, so first we just saw this.

17 CHAIRMAN GRIFFON: And I'm going to
18 capture it in a remaining issue.

19 MR. HINNEFELD: Well, I mean, we've
20 got to resolve all these, anything that's not
21 completely resolved.

22 CHAIRMAN GRIFFON: Yes, yes. Back

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1 to Hans's first point though, I sort of had
2 two issues there, and the one of the six point
3 six to the minus two value, and if it's just a
4 typo that's fine, but I'm wondering is that
5 number used in a --

6 Of course, the question is was that
7 value inadvertently put in some workbook and
8 carried through any dose estimate. That's the
9 real -- that would be a concern, you know.

10 DR. MAURO: We have some dose
11 reconstruction for cases, but I don't know
12 whether it was residual period --

13 CHAIRMAN GRIFFON: So, I guess I'd
14 ask that.

15 DR. MAURO: You'd find that out.

16 CHAIRMAN GRIFFON: Yes, that would
17 be followed up on that one.

18 DR. MAURO: That's important,
19 because it's --

20 CHAIRMAN GRIFFON: And then the
21 other part, I think we got the 61 versus 76,
22 and that was a very detailed and good

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1 explanation of that, so NIOSH obviously just
2 got this today and we'll follow up on that.

3 Is that the last --

4 DR. BEHLING: Yes, that was the
5 last one.

6 CHAIRMAN GRIFFON: I'm not sure
7 we're going to get to the other ones.

8 DR. BEHLING: Earlier this morning
9 I heard that people would want to necessarily
10 break up as early as 4:30, and I guess we're
11 --

12 CHAIRMAN GRIFFON: Right, right.
13 That's what I was just about to say, Hans.
14 I'm not sure we can take on Harshaw right now.

15 DR. BEHLING: Yes, that's -- that's
16 my question.

17 CHAIRMAN GRIFFON: Some of us do
18 have to get flights and stuff, yes, and we're
19 fading here, too, you know.

20 DR. MAURO: By doing this case,
21 this high profile --

22 CHAIRMAN GRIFFON: Yes.

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1 DR. MAURO: -- basically, we just
2 did every Bridgeport Brass case.

3 CHAIRMAN GRIFFON: Well, that's why
4 we did these -- right, yes. I thought it was
5 a good idea.

6 DR. MAURO: It was a very good
7 idea. It was your idea.

8 CHAIRMAN GRIFFON: Thank you.
9 Thanks, Hans, that was good. I mean, I'd like
10 to do Harshaw because I know you're available
11 on line, but I don't think we have the time
12 or, you know --

13 MR. HINNEFELD: Energy.

14 CHAIRMAN GRIFFON: -- energy left,
15 yes, yes, so --

16 DR. BEHLING: Well, I'll be here
17 next round --

18 CHAIRMAN GRIFFON: Okay.

19 DR. BEHLING: -- and we can get
20 started on Harshaw.

21 CHAIRMAN GRIFFON: It's good to
22 hear you again. We haven't heard you in a

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1 while, you know?

2 DR. BEHLING: The other thing that
3 I would like to do is I realize we got these
4 white papers to you in just only yesterday, I
5 believe, Kathy sent them out, and sometimes
6 it's very difficult to explain complex issues
7 when no one's had really an opportunity to
8 read them.

9 Now that we can postpone the
10 discussion for Harshaw for another meeting,
11 perhaps everyone at least will have the
12 benefit of the time to read the white paper
13 and become at least familiar with some of the
14 issues and to be in a much better position to
15 discuss when we have the opportunity next
16 time.

17 CHAIRMAN GRIFFON: That would be
18 great, yes. Okay, anything else on Bridgeport
19 for now? I think we sort of got the next
20 steps. Everybody's clear on that. I think
21 we're ready to adjourn.

22 Did we get any responses on the

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1 other subcommittee meeting date for May 6th?

2 MR. KATZ: We're putting on a
3 Federal Register notice, so Mike -- Mike, are
4 you still on the line?

5 MEMBER GIBSON: Yes, I'm here.

6 MR. KATZ: Are you good for May 6th
7 for a teleconference for three hours, from 11
8 to --

9 CHAIRMAN GRIFFON: Two.

10 MR. KATZ: Two?

11 MEMBER GIBSON: Yes, that looks
12 good.

13 MR. KATZ: So, we'll do it -- I
14 mean, whether the other --

15 CHAIRMAN GRIFFON: We're going to
16 talk about that hundred case report and the
17 selection criteria, and that will be it. None
18 of the matrix stuff, none of the cases.

19 Okay, so we've got Mike and Wanda,
20 I believe, said she was okay with that.

21 MR. KATZ: And I sent an email to
22 John and Bob.

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1 CHAIRMAN GRIFFON: And Brad's okay.

2 Okay. May 6th from 11 to one.

3 MR. KATZ: Yes.

4 CHAIRMAN GRIFFON: Eleven to two,
5 I'm sorry.

6 MR. KATZ: By phone.

7 CHAIRMAN GRIFFON: By phone, yes.

8 And I guess we're adjourned for today. Thanks
9 everybody.

10 (Whereupon, the above-entitled matter was
11 adjourned at 4:42 p.m.)

12

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