

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

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NATIONAL INSTITUTE FOR OCCUPATIONAL
SAFETY AND HEALTH

+ + + + +

ADVISORY BOARD ON RADIATION AND
WORKER HEALTH

+ + + + +

SUBCOMMITTEE ON DOSE RECONSTRUCTION REVIEWS

+ + + + +

THURSDAY
SEPTEMBER 3, 2009

+ + + + +

The meeting convened at 10:00 a.m.
in the Zurich Room of the Cincinnati Airport
Marriott Hotel, Hebron, Kentucky, Mark
Griffon, Chair, presiding.

PRESENT:

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

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ALSO PRESENT:

KATZ, TED, Designated Federal Official
ADAMS, NANCY, NIOSH Contractor*
AL-NABULSI, ISAF, DOE*
BEHLING, HANS, SC&A*
BEHLING, KATHY, SC&A*
BRACKETT, ELIZABETH, ORAU Team*
EAST, JAMES, SC&A*
ELLIOTT, LARRY, NIOSH OCAS
FARVER, DOUG, SC&A
HINNEFELD, STU, NIOSH OCAS
HOWELL, EMILY, HHS
SHARFI, MUTTY, ORAU TEAM*
STIVER, JOHN, SC&A*

*Participating via telephone

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T-A-B-L-E O-F C-O-N-T-E-N-T-S

Call to Order and Welcome Ted Katz	4
Introductions	4
Agenda Overview	7
12th Set of Cases	10
Vote	39
6th Set of Cases	42
7th Set of Cases	68
Discussion of the Summary Findings in First Hundred Cases Report Mark Griffon	198
Larry Elliott	205
8th Set of Cases	270
Discussion of Future Meeting	285

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

2 10:02 a.m.

3 MR. KATZ: Good morning, everyone
4 on the phone.

5 This is Ted Katz, the Acting
6 Designated Federal Official for the Advisory
7 Board on Radiation and Worker Health, and this
8 is the Subcommittee on Dose Reconstruction
9 Reviews.

10 We are just convening. We will do
11 roll call to begin with.

12 Board members first in the room?

13 CHAIR GRIFFON: Mark Griffon, the
14 Chair of the Subcommittee.

15 MEMBER MUNN: Wanda Munn,
16 Committee member.

17 MEMBER GIBSON: Mike Gibson,
18 member of the Board.

19 MR. KATZ: And on the line, do we
20 have anyone? Do we have John? John Poston?

21 (No response.)

22 Okay, any other Board members?

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1 (No response.)

2 Okay. Then in the room, NIOSH
3 ORAU team?

4 MR. ELLIOTT: Larry Elliott,
5 Director of the Office of Compensation
6 Analysis and Support.

7 MR. HINNEFELD: Stu Hinnefeld,
8 Technical Program Manager.

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

11 MR. SHARFI: Mutty Sharfi, ORAU
12 team.

13 MR. KATZ: Hi, Mutty.

14 MR. SHARFI: Hi.

15 MR. KATZ: And in the room, SC&A?

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

17 MR. KATZ: And on the line?

18 MS. BEHLING: Kathy and Hans
19 Behling, SC&A.

20 MR. KATZ: Welcome, Kathy and
21 Hans.

22 MS. BEHLING: Hi.

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1 MR. EAST: James East, SC&A.

2 MR. KATZ: James East, welcome.

3 Okay, and then do we have any
4 federal officials in the room first?

5 MS. HOWELL: Emily Howell, HHS.

6 MR. KATZ: And any federal
7 employees or contractor staff on the line?

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

10 MS. AL-NABULSI: Isaf Al-Nabulsi,
11 DOE.

12 MR. KATZ: Welcome, Isaf, again,
13 and Nancy.

14 MS. AL-NABULSI: Thank you.

15 MR. KATZ: Okay, and then any
16 members of the public on the line?

17 (No response.)

18 Okay. I would just remind folks
19 on the line to mute your phones except when
20 you are talking to the group, please.

21 And it is all yours, Mark.

22 CHAIR GRIFFON: Today's meeting,

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1 just to give a quick agenda, because it will
2 be pretty easy to describe the agenda.
3 Really, there are three primary things.

4 The most important, I guess, is
5 probably the 12th set of cases. We want to
6 select the cases. At the last Board meeting,
7 the Board approved the Subcommittee to make
8 the final decision and authorize SC&A to work
9 on these cases. So that is our main goal to
10 accomplish today. I think we will do that
11 first off.

12 Then we are going to continue our
13 work on the sixth, seventh, and eighth set. I
14 think that is probably as far as we can expect
15 to get. It may be a little bit of going back
16 and figuring out our notes.

17 The sixth set and seventh set I
18 believe only have a few outstanding items that
19 we have to resolve, and then the eighth set is
20 a little further to go. I don't think we have
21 made it through that entire matrix one time
22 yet.

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1 Then the last item on the agenda
2 comes from the Advisory Board meeting, the
3 last Board meeting. I think at this meeting I
4 would like to just kick off the discussion.
5 I'm not sure we are going to get to a point
6 where we can make a recommendation to the
7 Board.

8 But if you remember at the last
9 meeting, the Board tasked the Subcommittee to
10 follow up on the summary findings in the First
11 Hundred Case Report and just have a discussion
12 of what impact on NIOSH's program do these
13 findings have, if any, so to further, I guess,
14 clarify what those summary findings mean and
15 how they impact the NIOSH program.

16 I guess the bottom-line question
17 that NIOSH has been asking us is, did we meet,
18 did NIOSH meet the standards set out in the
19 statute. Was it scientifically accurate and
20 all that?

21 We did skirt around that
22 definitive answer a little bit in our Hundred

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1 Case Report. So we have been asked to sort of
2 reassess that. I think we want to at least
3 have some dialogue today and maybe think about
4 what we can say and what we can't say about
5 those summary findings, and we will bring that
6 back to the Board in the future.

7 So that is what is on the agenda,
8 as far as I can remember. Are there any other
9 items? I think that is it.

10 Then for those of you who are on
11 the phone, this is the trench work, so to
12 speak. We will go through the case selection,
13 but then we are going to go through finding-
14 by-finding. So it can be a little slow at
15 times, especially after lunch, but we've got
16 to work through these things. This is the
17 details.

18 MR. KATZ: Do you want to confirm
19 with John the number of cases that are needed?

20 CHAIR GRIFFON: John's not on the
21 line.

22 MR. KATZ: Oh, John is not on it,

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1 but maybe Kathy or Hans could tell us.

2 CHAIR GRIFFON: Or Doug.

3 MR. KATZ: Or Doug.

4 MR. FARVER: It was, like you
5 said, 42 or 46.

6 MR. KATZ: Forty-two to 46?

7 MR. FARVER: Yes.

8 MR. KATZ: Something in that
9 ballpark is the number of cases that SC&A
10 needs, is that correct?

11 MS. BEHLING: I believe that is
12 correct. I can check on that number.

13 CHAIR GRIFFON: All right. While
14 we're doing it, maybe if you could check on
15 that, Kathy, that would be great.

16 MS. BEHLING: Okay, very good.

17 MR. KATZ: Thanks, Kathy.

18 CHAIR GRIFFON: Okay. Alright.
19 So I guess the best way to proceed is just
20 everybody has the spreadsheet of the 12th set
21 of cases. We have 82 from our last sort of
22 triaged approach. NIOSH narrowed it down or

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1 we narrowed it down to 82, and then Stu filled
2 in these other fields that we have asked to be
3 better described.

4 So if we want to just run down, I
5 went down and highlighted sort of the ones
6 that I was interested in. I like to work from
7 a hard copy on this, but we will do the best
8 we can here.

9 MEMBER MUNN: Mark, do you have
10 any specific criteria you want for us or you
11 would like us to prioritize as we are looking
12 at this set?

13 CHAIR GRIFFON: Well, I don't
14 know, other than what we used in our first cut
15 on this, I think, still applies, you know.

16 MEMBER MUNN: All right. I just
17 wanted to make sure that hadn't changed.

18 CHAIR GRIFFON: No. I mean, I
19 noted the only criteria I was looking at as I
20 went through here is in that external dose
21 method and internal dose method I did look for
22 best estimate although Stu cautioned us on how

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1 that field was completed by people. But I did
2 to some extent use that.

3 Then, as you remember, some of the
4 cases we picked the first round through on
5 this, we picked because it was a new site. So
6 that is another thing I was looking for.

7 MR. ELLIOTT: Did you get copies,
8 hard copies? We have a hard copy.

9 CHAIR GRIFFON: Yes, if you don't
10 mind, that might be helpful.

11 MR. ELLIOTT: Which ones? Do you
12 want all of these?

13 CHAIR GRIFFON: Stu, is that what
14 you emailed around or is that the first
15 version of it?

16 MR. HINNEFELD: This is the pre-
17 selection.

18 CHAIR GRIFFON: Yes.

19 MR. HINNEFELD: These are the pre-
20 selected ones.

21 MR. ELLIOTT: Oh, so it's not
22 going to be that helpful.

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1 CHAIR GRIFFON: That's okay. We
2 will go with this.

3 MR. HINNEFELD: It's not the ones
4 that were -- that was the original list that
5 they pre-selected from at the Board meeting.

6 CHAIR GRIFFON: Okay. So, going
7 down, the first one I have is 211 and 212.

8 MEMBER MUNN: 211 and 212?

9 CHAIR GRIFFON: Maybe if anybody
10 has anything before that, just let me know.
11 These are not -- oh, they are in numerical
12 order. There's just some numbers skipped
13 because they've been screened out.

14 So 211 and 212, looking at Column
15 A and the last three numbers I am referencing
16 here.

17 So I have 211, 212, 218, 219 --
18 oh, I mean 220. I'm sorry. I will stop
19 there. If people agree with those or have any
20 before that that I didn't name?

21 MEMBER MUNN: 211, 212, 218 and
22 220?

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1 CHAIR GRIFFON: Yes.

2 MEMBER MUNN: Those are all the
3 same site.

4 CHAIR GRIFFON: Are they all
5 Savannah River?

6 MEMBER MUNN: Yes.

7 CHAIR GRIFFON: Keep an eye on
8 that for later ones then.

9 MEMBER MUNN: And all the same
10 decade.

11 CHAIR GRIFFON: They all started
12 early in the -- yes, a lot of years have
13 worked, yes. So they were there multiple
14 decades.

15 MEMBER MUNN: Yes.

16 CHAIR GRIFFON: I mean is that
17 still okay, Wanda?

18 MEMBER MUNN: Sure.

19 CHAIR GRIFFON: Yes.

20 MEMBER MUNN: We can always change
21 anything we want with them.

22 CHAIR GRIFFON: Yes, yes. Then I

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1 have 246, which is actually over 50 percent,
2 but it is Albuquerque Operations Office. It
3 is kind of a unique multiple-site thing.

4 MEMBER MUNN: Yes. Interesting.

5 CHAIR GRIFFON: Then I had 249.

6 MEMBER MUNN: Yes, agreed.

7 CHAIR GRIFFON: Which is the
8 Hanford. Again, over 50 percent, but full.

9 MEMBER MUNN: It's still
10 interesting.

11 CHAIR GRIFFON: It looks like a
12 lot of best estimates. Yes, yes.

13 MEMBER MUNN: Yes.

14 CHAIR GRIFFON: Then 266 also and
15 275. And 283 and 284. So right in a row
16 there.

17 And 285 I have. Over 50 percent,
18 but multiple Oak Ridge sites, including the
19 thermal diffusion. This goes back early.

20 MEMBER MUNN: Yes.

21 CHAIR GRIFFON: So I don't think
22 we really talked about S-50 very much.

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1 MEMBER MUNN: No, I don't think
2 so.

3 CHAIR GRIFFON: Then I have 347.
4 This is just for the oddity reason.

5 MEMBER MUNN: Yes.

6 CHAIR GRIFFON: It's very low work
7 time and over 50 percent.

8 MEMBER MUNN: Yes, it is strange.

9 CHAIR GRIFFON: Yes. Then 356.

10 MEMBER MUNN: Yes.

11 CHAIR GRIFFON: And keep in mind,
12 some of these we may lose once Labor looks at
13 them, right?

14 MR. HINNEFELD: Yes, Labor will
15 look at them.

16 CHAIR GRIFFON: Yes.

17 MR. HINNEFELD: Do what they call
18 post-closure.

19 CHAIR GRIFFON: Right, right. So
20 I am already up to 13. So if we go a little
21 high, we are probably going to lose some.

22 MR. HINNEFELD: High is better.

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1 CHAIR GRIFFON: Yes, yes.

2 The next one I have is 364.
3 Please, if I skip some that you want, let me
4 know.

5 MEMBER MUNN: Why did you skip
6 358?

7 CHAIR GRIFFON: 358?

8 MEMBER MUNN: Even though it's
9 over 50.

10 CHAIR GRIFFON: Yes, I know.

11 MEMBER MUNN: Nevertheless,
12 it's -- so we had that --

13 CHAIR GRIFFON: Yes, I'm probably
14 okay. It's best estimate internal, anyway.

15 MEMBER MUNN: Yes.

16 CHAIR GRIFFON: It's a little over
17 50. But I know there were some other Fernald
18 ones that were below 50, but that's fine; 358
19 is okay with me.

20 MEMBER MUNN: Then you went to 64?

21 CHAIR GRIFFON: Three sixty-four,
22 yes. That was because of, again, that is over

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1 50 percent, but it was like multiple labs,
2 actually.

3 MEMBER MUNN: Right.

4 CHAIR GRIFFON: It looks like the
5 person went --

6 MEMBER MUNN: New in town.

7 CHAIR GRIFFON: Right.

8 Then I had 377, although I am not
9 sure -- well, yes, 377. I had a question on
10 SEC for me on that one, but I forget -- that
11 might be after the -- no, that's in the time
12 period. I don't know. So we might lose some
13 of these, you know.

14 MEMBER MUNN: And you skipped 369?

15 CHAIR GRIFFON: No, I didn't. I
16 just forgot to say it.

17 MEMBER MUNN: Oh, okay.

18 CHAIR GRIFFON: Three sixty-nine.
19 Then I have 381, 390, and 392. 392 is really,
20 this one is for Paul. It's a Bethlehem Steel.
21 It is a Bethlehem model, but Paul, I think,
22 picked this the first round through because

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1 49.57, his question about the round off.

2 MEMBER MUNN: Right.

3 CHAIR GRIFFON: It is pretty close
4 to 50.

5 MEMBER MUNN: Sure.

6 CHAIR GRIFFON: Let's see, I'm on
7 down to 403 now. General Steel. Honestly, I
8 couldn't remember if we did any -- Doug, do
9 you remember if we did General Steel at all?

10 MR. FARVER: Any cases?

11 CHAIR GRIFFON: Yes.

12 MR. FARVER: Yes.

13 MEMBER MUNN: Yes.

14 CHAIR GRIFFON: We have done?

15 MR. FARVER: Yes.

16 MEMBER MUNN: Yes, we have.

17 MR. FARVER: And that was one of
18 John's questions. If you run across any of
19 these AWEs that you would like to have a site
20 profile, a mini site profile review, like we
21 have done before.

22 CHAIR GRIFFON: Yes. I think once

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1 we get back from Stu the final list that we
2 are allowed to do, then we can make that
3 decision.

4 MR. FARVER: Sure. He just wanted
5 me to bring that up, so you were aware of it.

6 CHAIR GRIFFON: Yes, yes. Because
7 some of these were clearly selected for that
8 reason --

9 MR. FARVER: Right.

10 CHAIR GRIFFON: -- that they were
11 sites we hadn't seen before.

12 Well, if we have done General
13 Steel before, I'm up to -- what am I up to?

14 MEMBER MUNN: You are up to 403 or
15 something, but I am wondering --

16 CHAIR GRIFFON: I'm up to 20 in
17 terms of cases.

18 MEMBER MUNN: Oh, number. I see
19 what you mean.

20 MR. KATZ: Can I ask you
21 something, Mark --

22 CHAIR GRIFFON: Yes.

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1 MR. KATZ: -- that is substantive
2 about the Beth Steel one?

3 CHAIR GRIFFON: Yes.

4 MR. KATZ: I mean, since it is a
5 model and it is just cranked out based on the
6 exact parameters and latency and all that --

7 CHAIR GRIFFON: I know, it's more
8 of a policy.

9 MR. KATZ: What do you really do
10 with that?

11 CHAIR GRIFFON: I know, it's more
12 of --

13 MR. KATZ: And in that case, does
14 it really make sense to task SC&A with that or
15 -

16 CHAIR GRIFFON: Right, right,
17 right.

18 MR. KATZ: -- does it make more
19 sense for the Board to have a discussion about
20 a case like that?

21 CHAIR GRIFFON: Yes, I think that
22 is more of a policy question, actually. The

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1 only reason I kept it on was because --

2 MR. KATZ: No, I understand. I
3 remember it was all --

4 CHAIR GRIFFON: -- our Chair
5 wanted it.

6 (Laughter.)

7 MR. KATZ: But, still, it seems to
8 me like there's not much of a review --

9 CHAIR GRIFFON: I know, I know.

10 MR. KATZ: -- to be done with
11 this.

12 CHAIR GRIFFON: Right, you're
13 correct, yes. Because we have done other
14 Bethlehem cases, yes.

15 I would just as soon drop that
16 one, yes.

17 MR. KATZ: Do you have any other
18 thoughts on that?

19 MR. HINNEFELD: Well, my thought
20 on that is it is a lung cancer with nine years
21 of employment. In order to not be compensated
22 from the Bethlehem Steel model, it must have

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1 been diagnosed pretty close to the start of
2 employment.

3 MR. KATZ: Right. That's right.
4 Exactly.

5 MR. HINNEFELD: Because otherwise
6 I am almost positive at nine years of
7 employment at Bethlehem Steel would compensate
8 a lung cancer.

9 MR. KATZ: Right.

10 MR. ELLIOTT: It's a latency
11 issue.

12 MR. KATZ: There's not much for
13 SC&A to put their teeth into in this.

14 MR. HINNEFELD: Right, because
15 they have reviewed the model.

16 MR. ELLIOTT: Other than the
17 statistical approach we use for those between
18 45 and 52, but that is all computer-driven.

19 MR. KATZ: That is routine, too.

20 CHAIR GRIFFON: You are right,
21 Ted, that might be more of a policy --

22 MR. HINNEFELD: Drop 392 off then?

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1 CHAIR GRIFFON: Yes, let's drop
2 92, if that's okay with you.

3 Thank you, Ted.

4 MR. ELLIOTT: I think it would be
5 good to have a policy discussion about it
6 because, you know, there's one there, but
7 there are others that are close.

8 CHAIR GRIFFON: Right.

9 MR. ELLIOTT: Unfortunately,
10 unless they get another cancer, and I don't
11 know if this guy is deceased or not, that's
12 not going to happen.

13 CHAIR GRIFFON: Right.

14 MR. KATZ: Mark, on the
15 teleconference next week you can talk about
16 this case, since we have just gone through
17 this --

18 CHAIR GRIFFON: Yes, we can do
19 that, yes.

20 MR. KATZ: -- as part of your Dose
21 Reconstruction Subcommittee.

22 CHAIR GRIFFON: I can mention this

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1 as I report out, yes. Okay.

2 All right, how about 403 then,
3 General Steel? This is a site model also. So
4 if we have done one, we have done them all,
5 basically, I believe, although there might be
6 some differences in that. I'm not sure.

7 MR. HINNEFELD: Boy, I can't
8 remember General Steel now, whether we
9 apportioned to different types of -- whether
10 the radiographers get a different dose
11 reconstruction than other people or not.

12 CHAIR GRIFFON: That is what I was
13 just wondering, yes.

14 MR. HINNEFELD: I don't remember.
15 I don't remember.

16 MR. KATZ: I have that same
17 recollection that there are some different
18 colors to it.

19 CHAIR GRIFFON: All right, let's
20 leave that one on there, yes.

21 MEMBER MUNN: It is probably a
22 good idea to.

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1 CHAIR GRIFFON: Yes, but then the
2 job title is unstated. So we don't know much
3 more.

4 MEMBER MUNN: What about -- before
5 we get away from that fact, what about 397?
6 That is one of those who have given job title
7 and type of cancer. There's been so much
8 interest in that particular type of claim.
9 That might be an interesting thing.

10 CHAIR GRIFFON: A short time
11 period there.

12 MEMBER MUNN: Yes, but that's one
13 of the --

14 CHAIR GRIFFON: Yes, all right,
15 397.

16 That brings us up to 21, which is
17 kind of halfway, but we want to go a little
18 over. Alright.

19 MEMBER MUNN: But we decided 403?

20 CHAIR GRIFFON: Yes, 403 I put on
21 there.

22 What is that?

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1 MEMBER GIBSON: What about 422?

2 CHAIR GRIFFON: I didn't get that
3 far yet, but I was going to add -- actually,
4 I'm going to drop 416 now because we do have a
5 lot of Savannah River that we have already
6 done.

7 So 422?

8 MEMBER GIBSON: Yes. A different
9 type of illness, it looks like, and then the
10 job title is kind of strange, too.

11 CHAIR GRIFFON: Yes. That one
12 might be better than the other one for General
13 Steel. We could drop 403 and do 422. What do
14 people think about that?

15 MEMBER MUNN: They're both shown
16 as overestimates.

17 MR. HINNEFELD: Yes, but I mean
18 that is the site model.

19 MEMBER MUNN: Yes.

20 CHAIR GRIFFON: Right.

21 MR. HINNEFELD: That is the dose
22 reconstructor --

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1 CHAIR GRIFFON: Exactly. It says
2 overestimate, but --

3 MR. HINNEFELD: Because they feel
4 like the site model is too big.

5 MEMBER MUNN: Right.

6 CHAIR GRIFFON: If I were going to
7 pick one, General Steel. I think 422. Mike is
8 probably right. It looks a little more
9 interesting.

10 Is that all right? I will drop
11 403 and put 422.

12 Alright. Then I have 430, and
13 this, in my mind, was -- and 439, and these,
14 Doug, to answer your question, were like mini
15 site profile kind of ones because this is
16 sites we haven't done before, I'm pretty sure.

17 U.S. Steel Company, National Tube
18 Division.

19 MEMBER MUNN: Yes, we haven't done
20 that one.

21 CHAIR GRIFFON: And Koppers
22 Company, which I don't even know where the

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1 heck that is.

2 So 430 and 439.

3 Then 444. I don't think we have
4 had a DuPont Deepwater Works, either.

5 MEMBER MUNN: No.

6 CHAIR GRIFFON: So another mini
7 site profile type of thing.

8 MR. FARVER: What was the next
9 number?

10 CHAIR GRIFFON: Four forty-four.

11 MEMBER MUNN: Four forty-four.

12 CHAIR GRIFFON: And then 450 and
13 451, those are my next two. And 451 looks
14 like it might be another site profile type of
15 question. I don't think we have done that
16 company before, Electro Metallurgical.

17 MEMBER MUNN: No, they're fairly
18 recent as far as the SEC is concerned.

19 CHAIR GRIFFON: And then 457, I
20 wasn't sure on, if we had done Allied Chemical
21 before.

22 MR. FARVER: It doesn't sound

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1 familiar.

2 CHAIR GRIFFON: Yes.

3 MR. HINNEFELD: We certainly
4 wouldn't have done very many.

5 CHAIR GRIFFON: Right.

6 MEMBER MUNN: I think we did one,
7 but not a bunch.

8 CHAIR GRIFFON: So 457 for that
9 reason.

10 Then 460, Fernald site.

11 MR. KATZ: Mark, can I ask you
12 another substantive question?

13 CHAIR GRIFFON: Yes?

14 MR. KATZ: Some of these you have
15 named, these metal ones that you say possibly
16 need a mini site profile, are some of these
17 TBD-6000/6001?

18 CHAIR GRIFFON: Yes, yes.

19 MR. KATZ: So some of those may
20 not need -- do they need a mini site profile
21 if they are getting a review by the TBD?

22 MR. HINNEFELD: I still think they

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1 do.

2 MR. KATZ: Okay.

3 MR. HINNEFELD: Yes. There is a
4 question there because TBD-6000 provides
5 options of application. There is more than
6 one approach defined in TBD-6000.

7 CHAIR GRIFFON: Right.

8 MR. HINNEFELD: And it would be an
9 evaluation, essentially, a series of -- each
10 one is an evaluation of that application of
11 TBD-6000.

12 MEMBER MUNN: Yes.

13 MR. HINNEFELD: Some of those
14 don't sound familiar at all to me. Some of
15 them do.

16 CHAIR GRIFFON: Yes. We may have
17 to coordinate with the TBD-6000 Group on that,
18 as we go down this.

19 MEMBER MUNN: But that was the
20 whole point in the 6000/6001 thing.

21 CHAIR GRIFFON: Right.

22 MEMBER MUNN: To try to codify --

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1 CHAIR GRIFFON: To catch some of
2 those, yes.

3 MEMBER MUNN: -- how we could do
4 that.

5 CHAIR GRIFFON: Yes, yes.

6 Okay. Then 466. Is that okay?

7 MEMBER MUNN: Yes.

8 CHAIR GRIFFON: Then 480 and 482 I
9 had.

10 MEMBER GIBSON: Hey, Mark, back on
11 the 466 --

12 CHAIR GRIFFON: Yes?

13 MEMBER GIBSON: -- what about 471
14 as opposed to that?

15 MEMBER MUNN: Or in addition to.

16 CHAIR GRIFFON: Or in addition to.

17 MEMBER GIBSON: It is a lot
18 shorter work time. It is about the same PoC.

19 MEMBER MUNN: Yes.

20 CHAIR GRIFFON: Yes. And it is
21 Paducah, though, instead of Portsmouth.

22 MEMBER MUNN: Yes, instead of

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1 Portsmouth, yes.

2 MEMBER GIBSON: Oh, okay.

3 MEMBER MUNN: Why not both of
4 them?

5 CHAIR GRIFFON: I mean we can do
6 it in addition to, yes. 471.

7 So then 480, 482, any questions,
8 reactions to those?

9 (No response.)

10 Then I had 485, 487, and 488.

11 If I'm counting right, that brings
12 me up to 35.

13 Then I have 501.

14 MEMBER MUNN: Five oh one.

15 CHAIR GRIFFON: I know it is a
16 Savannah River again, but it has best estimate
17 on both, yes.

18 MEMBER MUNN: It is best estimate,
19 yes.

20 MEMBER GIBSON: Mark, back on 489,
21 have we done any from the Uranium Mill in
22 Durango?

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1 CHAIR GRIFFON: Four eighty-nine?

2 MEMBER GIBSON: Yes.

3 MEMBER MUNN: No.

4 CHAIR GRIFFON: No. I missed that
5 one. Okay. Yes, we should do that one, 489.

6 So I did 501. Then I went down to
7 513 was the next one I had.

8 MEMBER MUNN: I am sorry, five
9 what? I was reading.

10 CHAIR GRIFFON: Five thirteen. I
11 might have missed a few in here, though. I
12 was running out of time before we dialed in.

13 You know, actually, 502 is kind of
14 interesting to me, now that I am looking.
15 Five oh two is a Blockson lung, which was not
16 compensable.

17 MEMBER MUNN: Yes.

18 CHAIR GRIFFON: He says with
19 emphasis.

20 MEMBER MUNN: Yes.

21 CHAIR GRIFFON: Since we hear most
22 of the lung cancers are compensable at

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1 Blockson.

2 MEMBER MUNN: Five oh two (502).

3 CHAIR GRIFFON: Five oh two (502).

4 MEMBER MUNN: And I was looking at
5 509.

6 CHAIR GRIFFON: Five oh nine?
7 Okay. And also, 507, is that a new company,
8 the International Minerals & Chemical Corp?

9 MR. HINNEFELD: If I am not
10 mistaken, it is uranium from phosphate plant.

11 CHAIR GRIFFON: Is it?

12 MR. HINNEFELD: I believe it is.

13 MEMBER MUNN: I don't remember it.

14 CHAIR GRIFFON: So you said 509,
15 Wanda?

16 MEMBER MUNN: I had suggested 509.

17 CHAIR GRIFFON: Yes, 507 and 509.

18 MR. HINNEFELD: I don't remember
19 ever doing one for International.

20 CHAIR GRIFFON: Right, I don't
21 think we ever did do that. So I am going to
22 say 507 and 509.

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1 That should bring me down to 513
2 is my next one.

3 MEMBER MUNN: Yes.

4 CHAIR GRIFFON: Five thirteen. Now
5 that gives us 41. But, again, if we get up to
6 50, it shouldn't be a problem because we are
7 probably going to lose a few.

8 MEMBER MUNN: Five twenty-two would
9 seem to be a logical choice.

10 CHAIR GRIFFON: Five twenty-two?

11 MEMBER MUNN: Yes. Not because of
12 the site but because of the type of carcinoma
13 and the fact it's best estimate.

14 CHAIR GRIFFON: It is best
15 estimate internal, yes.

16 MEMBER MUNN: Yes.

17 CHAIR GRIFFON: Okay. I've got no
18 problem with that: 522.

19 The next one I have is 537.
20 Actually, 524 I missed. I am very curious
21 about these couple from Paducah that were less
22 than a year and got over 50. Those may be

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1 quick reviews.

2 MEMBER MUNN: Yes, that's really
3 strange, isn't it? Yes, 524.

4 CHAIR GRIFFON: And then 537 was
5 my next.

6 MEMBER MUNN: Yes.

7 CHAIR GRIFFON: Actually, I have
8 those four in a row, 537 --

9 MEMBER MUNN: And 540.

10 CHAIR GRIFFON: -- 540. Now these
11 are Savannah Rivers again. That is very close
12 to 50.

13 MEMBER MUNN: Yes.

14 CHAIR GRIFFON: And it is a best
15 estimate on both parts.

16 MEMBER MUNN: One over, one under.

17 CHAIR GRIFFON: So 537, 540. 542
18 is Mound. Again, best estimates --

19 MEMBER MUNN: Yes.

20 CHAIR GRIFFON: -- although
21 overestimates on the internal.

22 MEMBER MUNN: Okay, 542 and 545.

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1 CHAIR GRIFFON: And 545, yes.

2 And that's it.

3 MEMBER MUNN: Yes.

4 CHAIR GRIFFON: That gives us 47.

5 Now that's a pretty good number.

6 MEMBER MUNN: That's pretty good.

7 CHAIR GRIFFON: Yes.

8 Anything I missed, Mike? Did you
9 have any others that I went by?

10 MEMBER GIBSON: There was one,
11 535, the type of job, again, or what they did,
12 mixed resins and impregnated parts with
13 resins.

14 CHAIR GRIFFON: I know, and it is
15 Pinellas. I don't think we've done many.

16 MEMBER GIBSON: Right.

17 CHAIR GRIFFON: You know, if we
18 have done any, we haven't done many. All
19 right, 535.

20 Any others, Wanda?

21 MEMBER MUNN: No. I think all
22 that I had mentally set aside --

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1 CHAIR GRIFFON: Okay. I think, if
2 everybody is okay with that -- is John on the
3 line? Did he get on? No?

4 If that is okay with the rest of
5 the Subcommittee, then I will make this --
6 well, we are voting on this right now. We are
7 submitting this list to NIOSH, and pending
8 DOL's review of the list, this will be turned
9 over to SC&A as the task for the 12th set of
10 cases, if that is okay with everyone.

11 MEMBER MUNN: It's fine with me.

12 CHAIR GRIFFON: No objections
13 heard. I guess we'll pass that.

14 I will give a report out on the
15 next phone call meeting next week. But, if my
16 count was right, that is 48 cases, and
17 hopefully, we won't lose that many when DOL
18 reviews them to see if any are in the appeals
19 process, or whatever. But we should have
20 enough for SC&A, a good chunk for SC&A to work
21 on. Doug's happy.

22 (Laughter.)

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1 MS. BEHLING: Excuse me, Mark.

2 CHAIR GRIFFON: Yes.

3 MS. BEHLING: Just to answer, we
4 are up to tab 258, and that would leave 42
5 remaining to get to 300. However, I believe
6 in the 9th set there were two cases that were
7 eliminated. So I believe we need 44, if I am
8 correct.

9 Is that correct, Doug?

10 MR. FARVER: Yes, those two cases
11 were eliminated.

12 CHAIR GRIFFON: Okay.

13 MR. FARVER: I mean if we are
14 trying to make 300.

15 CHAIR GRIFFON: So we should be
16 perfect, actually.

17 MR. HINNEFELD: Very close.

18 CHAIR GRIFFON: Yes, very close,
19 yes.

20 MR. HINNEFELD: Like I said, there
21 could be cases on here that have been returned
22 since we selected them, pre-selected them.

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1 CHAIR GRIFFON: Right, right.

2 MR. HINNEFELD: Or there may be
3 cases where Labor has gotten like a post-
4 closure appeal and there is an opportunity it
5 might reopen.

6 CHAIR GRIFFON: All right, thanks,
7 Kathy.

8 MS. BEHLING: You are welcome.

9 MR. HINNEFELD: Mark, I will send
10 you the numbers I recorded.

11 CHAIR GRIFFON: Okay.

12 MR. HINNEFELD: So you can
13 verify --

14 CHAIR GRIFFON: We will cross-
15 check them again.

16 MR. HINNEFELD: -- and make sure I
17 got them right.

18 CHAIR GRIFFON: All right.

19 MR. HINNEFELD: Then I will just
20 get the list out to Jeff. I just wanted to
21 make sure I didn't miss any.

22 CHAIR GRIFFON: Right. And we

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1 changed a couple of times there, yes.

2 Okay. All right, that sounds
3 good. Alright. I am just going to save this
4 and then we can move on.

5 Okay. Now I want to go back to
6 the 6th set of cases, the matrix, and we did
7 work on all these in the April meeting.
8 Unfortunately, I can't seem to find the
9 updated matrix from April. So I have all the
10 entered actions from the 3/12, the March 12th
11 meeting.

12 So as we go through these, my
13 matrix may be a little out-of-date. So if
14 people have other notes saying that we closed
15 something that I still have open, you know, we
16 will have to just correct that. It shouldn't
17 be too hard, though, because the 6th and 7th
18 sets are near completion.

19 So does everybody have that matrix
20 open, the latest version that they have, or
21 their notes from the last meeting?

22 MEMBER GIBSON: That was dated in

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1 April, you say?

2 CHAIR GRIFFON: Well, the one I
3 have is dated March 12th, '09. It's 6th 20
4 case matrix, March 12th, '09.

5 Do you have an April 15th file?

6 MEMBER MUNN: The title is 6th 20
7 case matrix, December -- NIOSH, April 15, '09.
8 Updates, but I don't see -- everything I am
9 seeing is -- oh, I see.

10 CHAIR GRIFFON: The yellow should
11 be the remaining actions, at least in my
12 version of it. The yellow highlighted actions
13 are the ones that remain open, I think.

14 And the first one I have is 104.7.

15 MEMBER MUNN: That is to provide
16 the concentration of transuranics?

17 CHAIR GRIFFON: Yes, this is the
18 transuranic question, the recycled uranium
19 transuranic question.

20 Stu, I see a note on 12/8 that you
21 are going to look into that, and then there's
22 a 3/12 follow-up that it remains active. I

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1 don't know if you have any other notes on
2 that.

3 MR. HINNEFELD: I don't have
4 anything newer than that.

5 CHAIR GRIFFON: Do you have that
6 in your --

7 MR. HINNEFELD: Yes, I have the
8 file from the staff meeting.

9 CHAIR GRIFFON: Okay. Maybe just
10 corroborate that with your handwritten note,
11 if you will go back to your notes from the
12 April meeting, because I don't think we
13 resolved that.

14 MR. HINNEFELD: Yes, it is in my
15 notes, and I have no note about resolving it.

16 Which site is this? Does anybody
17 remember?

18 CHAIR GRIFFON: A good question.
19 104.7, do you have the case?

20 MR. FARVER: Probably.

21 MR. HINNEFELD: I mean I can find
22 it. It will take me quite a while the way my

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1 computer is running.

2 CHAIR GRIFFON: The next one I
3 have, while they are looking up the site, the
4 next action --

5 MR. FARVER: Superior Steel.

6 CHAIR GRIFFON: Oh, Superior
7 Steel, yes, that's right.

8 MR. HINNEFELD: One oh four?

9 MR. FARVER: Yes.

10 CHAIR GRIFFON: Yes.

11 MR. HINNEFELD: I can tell you
12 briefly what's gone on on that recycle work.

13 CHAIR GRIFFON: Okay.

14 MR. HINNEFELD: We were thinking
15 OTIB-0053 would be the one that would explain
16 everything and it turns out it didn't explain
17 much of anything. It didn't really tell us to
18 do anything different.

19 So we still need to compile the
20 research that kind of backed up OTIB-0053,
21 which the draft version we got didn't really
22 elucidate on very much. We need to make sure

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1 we are okay on that.

2 The whole issue is one that I feel
3 pretty good about, that the numbers we are
4 selecting on some of these sites are pretty
5 good. Some sites are more complicated, but
6 when you're talking about an AWE and getting
7 some recycled metal.

8 CHAIR GRIFFON: So OTIB-0053 is
9 the general recycled uranium TIB?

10 MR. HINNEFELD: It was, and, you
11 know, we got this and we said, hey, it doesn't
12 explain things as well as we had hoped, and
13 the explanation it does doesn't really give us
14 much -- change anything, and it kind of refers
15 you to site-specific information and things
16 like that.

17 So I don't know that we are even
18 going to issue 53, but the issue still remains
19 what evidence do we have, which was not stated
20 clearly in that draft for a site, you know,
21 for -- in general, for general use, especially
22 things like AWE. So I will have to see what

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1 we have got.

2 CHAIR GRIFFON: Yes, the issue is
3 evidence to support the numbers that you
4 selected, the ratios that we selected, right?

5 MR. HINNEFELD: Yes.

6 CHAIR GRIFFON: Now I am updating
7 this for this meeting live.

8 The next one I have is 107.4.

9 And the note I have for 3/12,
10 while I guess you guys are reading, if you
11 have the same copy of the matrix I have, it
12 says that NIOSH provided a response indicating
13 that modeling exposure differently would not
14 affect the outcome. But it says the
15 Subcommittee had remaining concerns about the
16 general guidelines used for this
17 determination, and NIOSH was investigating
18 this and will report back to the Subcommittee.

19 MEMBER MUNN: Oh, boy.

20 CHAIR GRIFFON: I've got to admit,
21 you know, I've got to refresh my memory on
22 this one.

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1 MR. HINNEFELD: This was an
2 internal dosimetry finding where the dose
3 reconstruction modeled the bioassay data by a
4 chronic exposure, and the comment in the
5 finding was that, what about a series of
6 acutes? I believe it is because the job
7 classification --

8 CHAIR GRIFFON: That's right.

9 MR. HINNEFELD: -- fed into that,
10 that a series of acutes may be a better model
11 for this.

12 CHAIR GRIFFON: Right.

13 MR. HINNEFELD: And would they be
14 more favorable?

15 So our action, which, again, I
16 have not provided anything on yet, is can we
17 provide additional basis for why we chose the
18 chronic versus a series of acutes. What other
19 analyses did we look at?

20 My actual note was, could we
21 include in the dose reconstruction record an
22 explanation of why we chose chronic versus

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1 serial acute.

2 CHAIR GRIFFON: Right.

3 MEMBER MUNN: Do you have the
4 April 15th note that says --

5 CHAIR GRIFFON: No.

6 MEMBER MUNN: -- the file, SC&A
7 6th set, 107.4, ORAU response, April 15, '09?

8 In quotes: describe the guidance
9 that is used for cases like this.

10 CHAIR GRIFFON: No, I don't have
11 that.

12 MEMBER MUNN: I have that over in
13 the original NIOSH response column, instead of
14 in the NIOSH resolution column. I don't know
15 why I do.

16 CHAIR GRIFFON: So the note says
17 -- can you read that again, Wanda? I'm sorry.

18 MEMBER MUNN: It's dated April 15,
19 2009.

20 CHAIR GRIFFON: Right.

21 MEMBER MUNN: It says the file,
22 quote, SC&A6thset107-4ORAUresponseAPR15_09,

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1 because it's April 15th, describes the
2 guidance that is used for cases like this.

3 CHAIR GRIFFON: Do you have that
4 document? Do we have that document?

5 MR. HINNEFELD: I am sending it
6 now.

7 MR. FARVER: I believe you sent it
8 before, but it was a while before.

9 MR. HINNEFELD: I think I did send
10 it, but I am sending it now. So let me try to
11 get everybody on here. I've got all the Board
12 members. I've got Doug and Kathy, Emily.

13 CHAIR GRIFFON: Doug, what I am
14 going to ask is that you look at that, right?
15 That will be our action.

16 MR. FARVER: Okay. I am reading
17 it now.

18 CHAIR GRIFFON: Oh, you got it?
19 Okay.

20 MR. FARVER: I found it.

21 CHAIR GRIFFON: I don't find it in
22 my --

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1 MR. FARVER: I believe we've gone
2 over this before. It could be an acute,
3 several acutes; it could be a chronic. How do
4 you know which one is best? Is it the one
5 that gives the highest dose that is more
6 claimant-favorable? Especially like in this
7 case, I think it was two data points over 30
8 years.

9 CHAIR GRIFFON: Yes.

10 MR. FARVER: Now the guidance that
11 Stu is sending, really it is pretty generic.

12 CHAIR GRIFFON: Yes, this sounds
13 like a familiar discussion that we had before,
14 yes.

15 MR. FARVER: Sure.

16 CHAIR GRIFFON: Yes.

17 MR. HINNEFELD: Well, actually,
18 I'm trying to find it, figure out if I've got
19 that folder. I've got one that almost reads
20 that.

21 CHAIR GRIFFON: Was this case,
22 what was the PoC on this case? Do you recall?

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1 MR. FARVER: I can find out.

2 MEMBER MUNN: The short message
3 that I have doesn't go back far enough.

4 CHAIR GRIFFON: No, it doesn't.

5 MR. FARVER: Thirty-five point
6 five.

7 MR. HINNEFELD: Actually, I hope I
8 can find that easily.

9 MR. FARVER: I think I agreed that
10 it could be done either way. It is just a
11 matter of how you determine that --

12 CHAIR GRIFFON: Right, right.

13 MR. FARVER: -- when you have
14 similar data.

15 CHAIR GRIFFON: Yes.

16 MR. FARVER: And this was a person
17 who is a security guard. His position really
18 hadn't changed over that time period. Is it
19 more likely for a security guard to have one
20 lung acute or multiple chronic? I don't know.

21 CHAIR GRIFFON: Right, right.

22 MR. FARVER: If it was a

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1 production worker, I would say it is more
2 likely they are just going to have chronics.
3 But if it is a security guard, I don't think
4 they would be exposed to everything.

5 CHAIR GRIFFON: What does NIOSH's
6 guidance say? They're pretty generic, right?

7 MR. FARVER: Yes. It's true, it
8 should be as simple as possible; no more
9 complexity than necessary should be applied.
10 If a quick and simple over- or underestimate
11 can be performed using bioassay data, no
12 further fittings should be tried.

13 CHAIR GRIFFON: Yes.

14 MR. FARVER: But if you're going
15 for a best fit, how do you determine what is
16 the best fit when you've got -- almost have no
17 data?

18 CHAIR GRIFFON: So was this one of
19 those cases?

20 MR. FARVER: Two data points over
21 30 years.

22 CHAIR GRIFFON: Yes, yes.

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1 MR. FARVER: So how do we know
2 what happened in between?

3 MEMBER MUNN: By the same token,
4 he's on the security force.

5 CHAIR GRIFFON: Yes.

6 MEMBER MUNN: Was highly unlikely
7 to be subject to chronic exposure --

8 MR. FARVER: Well, I don't know.
9 If you talk to security people, they'll say,
10 no, they were even out quite a bit.

11 MEMBER MUNN: But lieutenants
12 don't. I don't know this site.

13 CHAIR GRIFFON: Yes, and you don't
14 know if he was lieutenant the whole time,
15 either.

16 MEMBER MUNN: It's a normal
17 process of hierarchy. No security force that
18 I know of would expect that kind of --

19 CHAIR GRIFFON: Yes, I am just
20 wondering whether we can take this one, too.
21 That is what I'm trying to figure out.

22 MEMBER MUNN: Well, how much will

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1 it change anything if we do?

2 MR. FARVER: Well, maybe it is
3 more dependent upon the work or the
4 occupation, or it depends also on the
5 occupation, and not just assign a quick
6 chronic.

7 CHAIR GRIFFON: Not just the data,
8 right.

9 MR. FARVER: Yes.

10 MR. HINNEFELD: But in this case,
11 there's two data points and they are separated
12 by multiple years. So, I mean, your typical
13 approach, if you were going to place an acute
14 in here, it is the midpoint between -- is an
15 acute exposure at that midpoint, in order to
16 hit that second bioassay data, or just miss it
17 if it was less than detectable. There's going
18 to be this enormous acute intake.

19 How likely is that to happen
20 without some other indicator that this was a
21 pretty significant event that this person was
22 exposed to? And therefore, there would be

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1 some follow-up or there would be some other
2 records of some kind of an event like that.

3 I mean at some point you've got to
4 decide which one you're going to do. Are you
5 going to give it a chronic exposure and say
6 that periodic acute exposure is pretty well
7 approximated by a chronic exposure, which in
8 most cases a chronic exposure is more
9 favorable than periodic acutes with the same
10 bioassay data.

11 So you've just got to kind of
12 decide what you are going to do. I mean there
13 is no real scientific explanation.

14 MR. FARVER: I guess one way to do
15 it would be to bound it by the -- I won't say
16 the maximum intakes at Savannah River.

17 MR. HINNEFELD: Yes, but the
18 higher ones?

19 MR. FARVER: Yes, or percentage,
20 the higher ones.

21 MR. HINNEFELD: Yes.

22 MR. FARVER: It will give you a

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1 bounding anyway.

2 MEMBER MUNN: Since we have
3 clearly talked about this many times before,
4 and since that strange note that I just read
5 from April 15th that says, the file, response
6 on April 15, describes the guidance that is
7 used in cases like this, I don't know what the
8 April 15th response was.

9 CHAIR GRIFFON: I think that file
10 was the response, right? Yes, that was the
11 response.

12 MEMBER MUNN: But it describes the
13 guidance, and there's no agreement on the
14 guidance? Is that what I'm hearing?

15 MR. FARVER: Oh, no, no, the
16 guidance is fine, except it is pretty general
17 guidance.

18 CHAIR GRIFFON: It is a little too
19 generic. Or that's your opinion?

20 MR. FARVER: Yes.

21 MEMBER MUNN: So we are back where
22 we started?

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1 CHAIR GRIFFON: Right and I don't
2 know that we are going to come --

3 MR. FARVER: I just wanted to
4 bring up the difference in this case where it
5 could be many small or one chronic. In this
6 case, it probably doesn't matter or it may not
7 matter.

8 CHAIR GRIFFON: Although with two
9 separated that far, like what you said, if you
10 really take the midpoint and assume an acute,
11 it may be that the acutes --

12 MR. FARVER: And if you look at
13 that --

14 CHAIR GRIFFON: -- bounding
15 situation, I don't know.

16 MR. FARVER: -- you say that the
17 intake that that would produce is six times
18 the maximum we have observed at the site, and
19 is unlikely, then you can go back and say --

20 CHAIR GRIFFON: Or you can say
21 it's so high that alarms clearly would have
22 been going off.

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1 MR. FARVER: We are going to use
2 the chronic.

3 CHAIR GRIFFON: Yes. It is out of
4 the realm of reasonable, yes.

5 Stu, did you examine it to that
6 extent? I can't remember.

7 MR. HINNEFELD: I don't remember.
8 It's been too long since I thought about it
9 very much.

10 MEMBER MUNN: But the bottom line
11 is we need a response to NIOSH, right?

12 CHAIR GRIFFON: If I could ask you
13 for that response, that specific one, examine
14 the acute versus chronic. You might have done
15 this already, but just to justify the
16 selection of chronic in this case. We've got
17 the general guidance.

18 MR. FARVER: And if it were a
19 production worker, it probably wouldn't even
20 be a question.

21 CHAIR GRIFFON: Right. Yes.

22 MR. FARVER: So maybe there needs

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1 to be certain occupations identified that are
2 more likely acute than chronic. I don't know.

3 MR. HINNEFELD: Well, I did find
4 the message I sent on April 15th. I can just
5 resend it. I'm resending that to Board
6 members and Emily and Ted. Do you want it,
7 Doug?

8 MR. FARVER: No, I've got it here.

9 CHAIR GRIFFON: So I will leave
10 that part as an action, okay, Stu?

11 MR. HINNEFELD: Yes.

12 CHAIR GRIFFON: Is that clear?
13 Alright.

14 That might be it.

15 I have 118.1. I don't know what
16 site this is. INEL. There it is, yes, INEL.

17 MR. FARVER: We do agree. We
18 accept the interpretation of reported dose.
19 It has to do with linearity, and a response
20 would be type of film used.

21 CHAIR GRIFFON: This may be one
22 that we could track.

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1 MR. FARVER: It would be
2 appropriate for that dose range in question.

3 MEMBER MUNN: My note says no
4 further action.

5 CHAIR GRIFFON: Okay.

6 MR. FARVER: I believe we resolved
7 this at the last meeting.

8 CHAIR GRIFFON: Yes, this is one
9 that was resolved. We met on it.

10 MR. HINNEFELD: We sent it April
11 15th. What I think was that, even though it
12 resolved that case, there's still this
13 outstanding issue of linearity of that
14 dosimeter in the range we were talking about.

15 I believe that was the note I took, even
16 though it was off that case.

17 MR. FARVER: Correct.

18 MR. HINNEFELD: So on the message
19 I just forwarded there's two files attached.
20 There's the one that specifically was 107.4,
21 but there was also a matrix attached that
22 included some additional response. It was

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1 what Wanda read when she said it was filed
2 under such-and-such.

3 This 118.1 includes that April
4 15th of 2009 response from us as well. It
5 refers to a document in SRDB about the INEL
6 dosimeter.

7 MR. FARVER: I don't have that
8 file. Was it like a Word file?

9 MR. HINNEFELD: Yes, it is a
10 matrix. It's the matrix. It is a file called
11 sixth -- it's the sixth 20-case matrix.

12 MR. FARVER: Okay.

13 MR. HINNEFELD: December 8th, '08,
14 and then there is a response from NIOSH, April
15 15th, 2009.

16 MR. FARVER: I've got that file, I
17 believe.

18 MR. HINNEFELD: And then, again,
19 this is over in our -- same column as our
20 initial response.

21 MR. FARVER: Okay. All right, I
22 have it.

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1 MR. HINNEFELD: It is not
2 particularly relevant to this particular
3 claim.

4 CHAIR GRIFFON: Right.

5 MR. HINNEFELD: If we decide it
6 wasn't relevant, we can move on.

7 CHAIR GRIFFON: So you added a
8 response in the mail? I'm not sure I have
9 that.

10 MR. HINNEFELD: It is on the email
11 I just forwarded.

12 CHAIR GRIFFON: Oh, okay.

13 MR. HINNEFELD: It is on there,
14 along with the file that was specifically
15 about 107.4.

16 CHAIR GRIFFON: All right. I'll
17 check that at the break.

18 But, basically, for this case,
19 it's closed, there's no further action?

20 MR. HINNEFELD: That's my
21 recollection.

22 CHAIR GRIFFON: I think Stu is

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1 agreeing with that.

2 MR. HINNEFELD: Yes. Yes, I
3 always agree with closing.

4 (Laughter.)

5 MR. FARVER: And it appears that
6 it is appropriate for their range.

7 MR. HINNEFELD: That is based
8 on --

9 MR. FARVER: Based on that
10 document.

11 MR. HINNEFELD: -- these documents
12 that were cited here.

13 MR. FARVER: Yes, I think we
14 closed that last time.

15 MEMBER MUNN: I think we were
16 trying to.

17 CHAIR GRIFFON: Yes, yes.

18 Alright. So I'm considering that
19 closed, if I don't hear anything otherwise.

20 Alright. Look at that; we did
21 one.

22 (Laughter.)

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1 All right, progress. Almost as
2 much as the Procedures Subcommittee, right?

3 All right, 118.6. I actually have
4 this closed. I still had some highlighted
5 notes.

6 SC&A agrees with NIOSH's
7 evaluation. No further action.

8 All right, that was an old
9 highlight.

10 MEMBER MUNN: What about 118.1?
11 Is that closed?

12 CHAIR GRIFFON: Yes, I just said
13 118.1.

14 MEMBER MUNN: Oh, I thought you
15 said 118.6. Sorry.

16 CHAIR GRIFFON: 118.1 was the one
17 we were just discussing, and then 118.6 I had,
18 but it is closed according to my notes anyway.

19 Then 118.7, the same thing, that
20 should be closed. I have highlighting left on
21 there from the previous meeting.

22 And that's all I have. Is that

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1 all you guys have?

2 MR. HINNEFELD: That's all I've
3 got as well.

4 CHAIR GRIFFON: So we have two
5 left, 104.7. That is the transuranic question
6 with Superior Steel. And 107.4 check out the
7 acute versus chronic for this particular case.
8 We've got the general guidance. And that's
9 it, right?

10 MEMBER MUNN: So 118.7 is closed?

11 CHAIR GRIFFON: Do you have
12 something on 118.7?

13 MEMBER MUNN: Well, it just says,
14 well, last year, last December, action, NIOSH
15 and SC&A to further review.

16 CHAIR GRIFFON: Yes, from
17 December, but then the 3/12 note said that it
18 was closed.

19 MEMBER MUNN: Okay. I don't have
20 the 3/12 note.

21 CHAIR GRIFFON: I just forgot to
22 un-highlight it, yes. The 3/12 note that I

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1 had said, SC&A agrees with NIOSH's
2 reevaluation. No further action.

3 MR. HINNEFELD: Yes, the
4 complication here, Wanda, is that we wrote,
5 the additional information that we submitted,
6 we wrote on a version before --

7 CHAIR GRIFFON: That's right.

8 MR. HINNEFELD: -- the version
9 that Mark sent --

10 CHAIR GRIFFON: That's right.

11 MR. HINNEFELD: -- for the April
12 meeting. You kind of have got to open them
13 both and go back and forth.

14 CHAIR GRIFFON: Right, right. I
15 remember that now.

16 MEMBER MUNN: Okay. I just didn't
17 have the note. Okay. Great. Thank you.

18 CHAIR GRIFFON: So do you want to
19 take five minutes? Let's take five minutes.
20 We will take five minutes and then we will
21 work through until lunch.

22 MR. HINNEFELD: I can use all the

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1 breaks I can get.

2 CHAIR GRIFFON: Yes. Stretch.

3 Okay, we're on break. Everybody
4 on the phone, we are going to take --

5 MR. KATZ: Five minutes.

6 CHAIR GRIFFON: -- five minutes.

7 (Whereupon, the above-entitled
8 matter went off the record at 11:07 a.m. and
9 resumed at 11:16 a.m.)

10 MR. KATZ: We are back again, the
11 Dose Reconstruction Subcommittee, Advisory
12 Committee on Radiation and Worker Health.

13 CHAIR GRIFFON: All right, we are
14 moving on to the 7th set.

15 Kathy, are you out there?

16 MS. BEHLING: I am still here.

17 CHAIR GRIFFON: Yes, all right.
18 This is your wake-up call. No.

19 Okay, we're on the 7th set.
20 Again, I think we should be able to get
21 through this before lunch. We have some
22 remaining items, and I will go down my list.

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1 Like I said, apparently my matrix
2 is going back to March instead of April. So I
3 apologize if we have already resolved some of
4 these. There might be a little redundancy,
5 but it shouldn't take too long.

6 The first one I have is 149.1, the
7 first one on the matrix. I have a note, NIOSH
8 to review SC&A's analysis of badge data as
9 compared to NIOSH model. No effect on the
10 case since the case was compensable.

11 MR. HINNEFELD: Let me see what
12 I've got. I did, in fact --

13 MR. FARVER: We're on the 8th set?

14 CHAIR GRIFFON: I am on the 7th
15 set.

16 MEMBER MUNN: And the number?

17 CHAIR GRIFFON: The number, 149.1.

18 MR. HINNEFELD: That is the 8th
19 set.

20 CHAIR GRIFFON: Oh, that's the 8th
21 set?

22 MR. HINNEFELD: That is the 8th

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1 set.

2 CHAIR GRIFFON: All right, let me
3 go to the 7th. Sorry. I'll try that again.

4 How about 121.1? I have a note on
5 3/4/09; this remains an outstanding item for
6 NIOSH.

7 MR. HINNEFELD: Yes, now let me
8 see what I've got. I sent something on April
9 15th.

10 CHAIR GRIFFON: Oh, okay, you were
11 going to look at TIB-0070 and TIB-6000 versus
12 the approach used in this case which was
13 originally done earlier in the notice.

14 MR. HINNEFELD: And it appears
15 that I didn't send anything.

16 MEMBER MUNN: I've got another one
17 of those read-only files.

18 MR. HINNEFELD: I have nothing new
19 on that.

20 CHAIR GRIFFON: So this remains an
21 open item?

22 MR. HINNEFELD: Right.

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1 CHAIR GRIFFON: Okay. 121.2, this
2 may be the same thing. Yes, it is the same
3 thing.

4 MEMBER MUNN: Yes.

5 CHAIR GRIFFON: Okay.

6 MEMBER MUNN: It is the Y-12 case,
7 right?

8 CHAIR GRIFFON: I'm not sure. Is
9 this Y-12?

10 MR. HINNEFELD: I wouldn't think
11 121 would be Y-12. We are talking about using
12 OTIB-6000.

13 CHAIR GRIFFON: No, right, 6000.

14 And 121.3, it is still open. I
15 mean I think these are all the same issue,
16 right? Will consider TIB-0070 as it pertains
17 to this case, is what my note says.

18 MEMBER MUNN: Appropriate data and
19 appropriate method.

20 CHAIR GRIFFON: Some of these are
21 all the same follow-up for you really, Stu.

22 MEMBER MUNN: Yes.

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1 MR. HINNEFELD: On 121.3?

2 CHAIR GRIFFON: Yes.

3 MR. HINNEFELD: Which file? Oh,
4 wait a minute. Wait a minute. Let's get the
5 right one.

6 MEMBER MUNN: Well, it appears the
7 whole 121.

8 CHAIR GRIFFON: Yes, 121.1, 2, and
9 3.

10 MEMBER MUNN: Yes, and all the
11 rest of them.

12 CHAIR GRIFFON: No. Some of
13 these, I have SC&A agreeing.

14 MEMBER MUNN: Yes, one or two, but
15 the issue is all the same pretty much.

16 MR. HINNEFELD: Yes, I see that
17 now. I've got that file open, and I see what
18 you are doing there.

19 CHAIR GRIFFON: Okay.

20 MEMBER MUNN: They are questioning
21 the adequacy of your choice of method or
22 choice of data.

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1 CHAIR GRIFFON: Okay, the next one
2 I have is 122.1. This is this job-related
3 question, validity of the approach, given the
4 particular job on this case.

5 I think, is this an AWE one also?

6 MR. FARVER: Yes.

7 CHAIR GRIFFON: Yes. I think it
8 was this job title that sort of suggested a
9 high level of exposure and did the 95th still
10 down this person.

11 MR. HINNEFELD: I think I remember
12 this one.

13 CHAIR GRIFFON: Yes. Yes.

14 MR. HINNEFELD: I think this was
15 the comment that, since it was an AWE, John
16 would have done the review.

17 CHAIR GRIFFON: Right.

18 MR. HINNEFELD: And the comment
19 was, for this person's job, we don't think
20 that this could be decided. You're using the
21 distribution in this dose model. For this job
22 title, we don't think the rate of distribution

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1 is correct. Because he is more highly exposed
2 than most, he should be at the top end.

3 CHAIR GRIFFON: Right.

4 MR. HINNEFELD: Our initial take
5 on that is, the way this model was built, the
6 distribution is so high anyway, we think the
7 distribution bounds the most highly-exposed
8 people.

9 He says, well, it's not really
10 expressed that way. You know, you present
11 this distribution. There is a median or a
12 mean, a median probably or a most probable; it
13 might be a most probable, in the 95th
14 percentile, and you built it that way.

15 So from that, a lot of the
16 conclusion is some people are appropriately
17 approximated by the full distribution, but
18 certain job titles would be at the high end.
19 So it may be a matter of even just
20 restructuring the site profile, as you do in a
21 dose reconstruction, to see if it is, in fact,
22 really convincing that the dose we would

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1 assign by that midpoint is so high that it
2 bounds the most highly exposed people. Then
3 we would just want to restructure the site
4 profile to more clearly state what we intended
5 to build when we built that.

6 Because my argument at the time --
7 I remember this -- my argument at the time was
8 we built the distribution with the idea that
9 it will bound the most highly exposed people,
10 and it doesn't really say in the site profile.

11 So that is the issue, as I recall that.

12 CHAIR GRIFFON: So it is a little
13 different than -- I'm trying to recollect, too
14 -- I think it is a little different than some
15 of the sites where you have a lot of data from
16 probably less-exposed people. In this case, I
17 think they only modeled the highly exposed,
18 and therefore --

19 MR. HINNEFELD: If this is the one
20 I am thinking of, it was built, the
21 distribution was built by proximity to a
22 uranium source.

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1 MR. FARVER: A Simonds Saw case.

2 MEMBER MUNN: Yes.

3 MR. HINNEFELD: Yes. So rather
4 than having actually film data, we said let's
5 assume that at the midpoint the person was one
6 meter away for ten hours a week, or whatever
7 we said, eight hours a week

8 CHAIR GRIFFON: Yes, okay.

9 MR. HINNEFELD: And at the 95th
10 percentile, they were one meter away for 40
11 hours a week.

12 CHAIR GRIFFON: Percentage, yes.

13 MR. HINNEFELD: Those weren't the
14 numbers, but it was like that.

15 CHAIR GRIFFON: Yes.

16 MR. HINNEFELD: So I think our
17 thought process was that will bound the most
18 highly-exposed person.

19 MR. FARVER: And this guy happens
20 to be a furnace operator.

21 MR. HINNEFELD: And this guy is a
22 furnace operator, who was, quite likely, one

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1 of the most highly exposed people.

2 CHAIR GRIFFON: Right.

3 MR. HINNEFELD: Yes. So that is
4 the evolution of the comment. So we've had
5 this discussion, but we have never really
6 provided anything more in writing.

7 CHAIR GRIFFON: Yes, I do remember
8 the furnace-operator scenario that John
9 described, yes.

10 MEMBER MUNN: Yes, all we need,
11 really and truly, is just your quick summary.

12 MR. HINNEFELD: Well, yes, if it's
13 convincing.

14 MEMBER MUNN: Yes.

15 CHAIR GRIFFON: Right.

16 MR. HINNEFELD: You know, I never
17 want to take for granted that I know exactly
18 how to pose these things.

19 (Laughter.)

20 CHAIR GRIFFON: Yes, yes.

21 MR. HINNEFELD: Experience would
22 indicate that I don't.

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1 (Laughter.)

2 CHAIR GRIFFON: Okay. Alright.
3 Now is 122.3 a similar issue? No, this is
4 slightly different. It's not really talking
5 about the distribution; it is talking about
6 your --

7 MR. FARVER: And I still think it
8 is going to pass with the job title --

9 MR. HINNEFELD: It seems pretty
10 similar.

11 MEMBER MUNN: It turns out to be
12 pretty much the same thing.

13 MR. HINNEFELD: Although it is
14 similar, but it more has to do with, again,
15 this person's job title would indicate that he
16 would not be exposed to this 50 percent of the
17 time to one, 50 percent to the other, but,
18 more likely, all of his exposure would be to
19 the higher dose.

20 CHAIR GRIFFON: Right.

21 MR. HINNEFELD: I believe it is
22 similar, but it is not --

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1 CHAIR GRIFFON: You could probably
2 weave your answers together for those two,
3 yes.

4 MR. HINNEFELD: I would think so.
5 I would think so.

6 CHAIR GRIFFON: All right, 122.7 I
7 have.

8 MR. FARVER: Yes, NIOSH entered a
9 response on April 15th.

10 CHAIR GRIFFON: Oh, they did give
11 us one?

12 MR. FARVER: Yes. That day,
13 which is saying we have not gotten a chance to
14 review the responses.

15 CHAIR GRIFFON: Okay.

16 MR. FARVER: So that being said,
17 having looked at this, I'm going to forward
18 this to John because this has to do with the
19 thorium inhalation of the furnace operator.
20 So I don't want to make a call on this. This
21 is an SC&A action.

22 CHAIR GRIFFON: Okay.

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1 MR. KATZ: Is that 122.7?

2 MR. FARVER: Yes.

3 CHAIR GRIFFON: One twenty-two
4 point seven, yes.

5 So the 4/15 response, Stu, you
6 recall --

7 MR. HINNEFELD: I can work with
8 you offline on this. At the break, I will
9 resend it. Because when I was looking for
10 that 6th set response, I sent a 6th set and I
11 sent three separate messages on 7th-set
12 responses on that same day.

13 CHAIR GRIFFON: I can remember
14 cutting and pasting these from your document
15 into my matrix, and I don't have that version
16 saved for some reason.

17 MR. HINNEFELD: I will resend
18 those messages at the break on that 7th set.

19 CHAIR GRIFFON: Thank you.

20 MR. HINNEFELD: For the 7th set.

21 CHAIR GRIFFON: Okay, so that's an
22 SC&A action.

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1 Moving on --

2 MEMBER MUNN: Those are the files
3 I apparently received as read-only files.

4 MR. HINNEFELD: I don't know why
5 we made them read-only.

6 MEMBER MUNN: Well, I just
7 received -- it may be some way I saved them.
8 Who knows?

9 CHAIR GRIFFON: All right, 125.1 I
10 have.

11 MEMBER MUNN: Before we leave 122,
12 I was just going to ask, one of the actions
13 preceding had been NIOSH was going to provide
14 a response in the form of a generic white
15 paper. Do we have that white paper?

16 CHAIR GRIFFON: No, I don't think
17 so.

18 MEMBER MUNN: That's just one
19 outstanding thing.

20 CHAIR GRIFFON: There are a couple
21 of these white paper questions.

22 MEMBER MUNN: Yes.

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1 CHAIR GRIFFON: The ingestion
2 approach, and this is the --

3 MEMBER MUNN: Inhalation.

4 CHAIR GRIFFON: -- inhalation of
5 resuspended --

6 MR. HINNEFELD: This is
7 resuspension.

8 CHAIR GRIFFON: Yes, resuspension.

9 MEMBER MUNN: Yes, right.

10 CHAIR GRIFFON: I believe those
11 are still hanging out there.

12 MR. HINNEFELD: I believe they're
13 still hanging out.

14 CHAIR GRIFFON: Yes, 125.1 then.
15 SC&A -- I have a note that says you couldn't
16 find the 1984 dose.

17 MEMBER MUNN: Yes, but then that's
18 one of the things that was answered in the
19 April 15th --

20 CHAIR GRIFFON: Was this answered
21 on April 15th? What was the --

22 MEMBER MUNN: Status. It appears

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1 that the QC file failed to enter annual dose
2 for 1984. This was entered manually on the
3 input sheet. All suggested doses for this
4 claim from all comments neutron for 1961: 303
5 millirem, 1962: 1,446 millirem, and 1974: 40
6 millirem. Full-time dose for 1982: 30
7 millirem, 1952: 60 millirem, and 1984: 30
8 millirem, and the missed cesium-137 dose, 30
9 millirem were added, which increased the dose
10 from 23.780 rem to 25.982 rem and PoC from
11 34.82 percent to 35.39 percent. The
12 supporting files are attached.

13 CHAIR GRIFFON: Okay. So on 4/15,
14 NIOSH provided that response, right?

15 MEMBER MUNN: That is correct.

16 CHAIR GRIFFON: And I will get
17 that later.

18 But then did SC&A look at that?

19 MR. FARVER: Yes. I don't know
20 what the original finding was.

21 CHAIR GRIFFON: Yes.

22 MR. FARVER: I guess one of the

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1 things I didn't understand about the response
2 was that I guess a 1984 dose really wasn't
3 included?

4 MR. HINNEFELD: That is correct.

5 MR. FARVER: Okay. So you were
6 correct on the facts --

7 MR. HINNEFELD: Correct on the
8 facts of the findings, correct.

9 CHAIR GRIFFON: So you guys have
10 changed the PoC slightly?

11 MR. HINNEFELD: Yes, plus several
12 other things. There were other comments. You
13 know what I'm saying? Incorporating the doses
14 associated with all these comments, this is --

15 MR. FARVER: Yes.

16 MEMBER MUNN: It doesn't change it
17 even 1 percent.

18 CHAIR GRIFFON: It is minimal.

19 MR. FARVER: This is one of these
20 small QC things. The dose just wasn't in the
21 files.

22 MEMBER MUNN: You missed 25.4,

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1 response --

2 CHAIR GRIFFON: Wait a second.
3 Let me just make a note that SC&A agrees with
4 this response, just to close it out. Okay.

5 MR. FARVER: Sure.

6 CHAIR GRIFFON: So that is closed.
7 I'm sorry, Wanda, go ahead.

8 MEMBER MUNN: Oh, no, that's quite
9 all right.

10 I was just saying, then, if you
11 don't have the April 15 information, you don't
12 have what we got on 125.4, which is here.

13 CHAIR GRIFFON: Okay, and I'm
14 going to get these. But I will get Stu to
15 email this to me.

16 MEMBER MUNN: Okay.

17 CHAIR GRIFFON: That will be
18 easier than trying to copy all that.

19 MEMBER MUNN: Since mine is read-
20 only --

21 CHAIR GRIFFON: We didn't go over
22 it. So, 4/15, NIOSH provided an additional

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1 response.

2 MEMBER MUNN: Yes.

3 CHAIR GRIFFON: And do you have
4 any reaction to that?

5 MR. FARVER: Yes. We still
6 contend that it has to do with cesium whole-
7 body counts, and there is a table of predicted
8 fallout values. If the cesium body count
9 exceeds those values, it should be assessed as
10 an occupational exposure. That is the gist of
11 the process.

12 There is a whole-body count, and
13 you exceeded the fallout values, and it was
14 not assessed. So, really, they didn't follow
15 their own guidance.

16 The NIOSH response says the doses
17 were a little less than a millirem, and these
18 NCRP levels were not evaluated originally.

19 CHAIR GRIFFON: But does NIOSH
20 agree that they should have procedurally done
21 this, but it is a minimal effect, but,
22 procedurally, they should have probably

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1 assessed this dose or no?

2 MR. HINNEFELD: I think,
3 procedurally, it should have been assessed
4 although, in a sense, the procedure says that
5 if it is above the fallout level, you should
6 evaluate it. But this is a fairly complicated
7 response. I'm trying to sort it out here.

8 It seems to say that when we did
9 that, you know, after that fact, now we have
10 gone and assessed it, and the dose is less
11 than 1 millirem, which we normally don't --

12 CHAIR GRIFFON: Which means you
13 wouldn't assign --

14 MR. HINNEFELD: We wouldn't put it
15 in the dose reconstruction anyway.

16 CHAIR GRIFFON: Right. But you
17 hadn't evaluated --

18 MR. HINNEFELD: But, again, the
19 response that was on this day, you added the
20 dose from that, and we did that in 125.1. I
21 would have to find out whether that means --
22 it says, if you do that, it would be 30

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1 millirems.

2 So unless they are considering it,
3 the entire result could be not considering any
4 background.

5 CHAIR GRIFFON: Right.

6 MR. HINNEFELD: You assess the
7 entire amount, considering none of it fallout,
8 but all occupational exposure. It would then
9 be a 30 millirem.

10 CHAIR GRIFFON: Thirty millirem,
11 right.

12 MR. HINNEFELD: That is part of
13 the numbers, that was one of the numbers they
14 included in the response to 125.1, and it had
15 that whole string of doses that were added.

16 CHAIR GRIFFON: Yes.

17 MR. HINNEFELD: It was 30 millirem
18 of cesium intake.

19 CHAIR GRIFFON: Yes.

20 MR. HINNEFELD: So it doesn't
21 affect the outcome of the claim. Even if you
22 assessed it as if there were no fallout, this

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1 would be the impact.

2 CHAIR GRIFFON: Yes.

3 MR. HINNEFELD: I think that is
4 what the response says.

5 CHAIR GRIFFON: But I think we are
6 all in agreement that it is a pretty low dose
7 being assigned.

8 MR. HINNEFELD: Yes.

9 CHAIR GRIFFON: It sounds like
10 procedurally you should have done it. But you
11 couldn't know ahead of time that it was less
12 than one millirem without at least assessing
13 it.

14 MR. HINNEFELD: Without doing the
15 assessment.

16 CHAIR GRIFFON: Right. Right.

17 MR. FARVER: And going back to the
18 original dose reconstruction report, it says
19 the EE had three whole-body counts in June
20 until the termination of employment. There
21 were no positive cesium-137, sodium-24, or
22 zinc-65 bioassays during that period, which is

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1 an incorrect statement because there was 8.4
2 nanocuries of cesium, which exceeded the
3 fallout level. Then later on there was a
4 zinc-65 which exceeded the MDA and should have
5 been considered as a chronic ingestion in
6 drinking water. I'm assuming this is at
7 Hanford, the Hanford site.

8 So, really, there were two that
9 should have been considered. Actually three.
10 The other cesium also exceeded the fallout
11 dose.

12 CHAIR GRIFFON: I guess I am
13 trying to simplify all this. I think it is a
14 procedural -- I mean I think there is, making
15 a decision, they should have done it, but --

16 MR. FARVER: But, number one, the
17 DR report says that there were no positives.

18 CHAIR GRIFFON: Right.

19 MEMBER MUNN: That is incorrect.

20 MR. FARVER: That is incorrect.

21 CHAIR GRIFFON: Okay, yes.

22 MEMBER MUNN: That's the biggie.

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1 MR. FARVER: Yes.

2 CHAIR GRIFFON: Yes, that's true.
3 Right. So there is more than just the one
4 thing, yes.

5 I'm just trying to think of how to
6 -- I would like to close this out because I
7 really don't want NIOSH to go back and try to
8 reevaluate the dose. I don't think the dose
9 is the issue. I think it is the other things
10 that have been done.

11 MR. FARVER: I will say it again.
12 This is QA concerns. When you were reviewing
13 it, you should have looked at that and said,
14 all of these exceed the fallout levels. We
15 should do something.

16 CHAIR GRIFFON: So, I mean, that
17 is my point. If NIOSH agrees that, based on
18 the procedure, they should have assessed this
19 dose and that there's a misstatement in the DR
20 report, then I think SC&A would be in
21 agreement that we could close this. But I am
22 not sure Stu is --

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1 MR. HINNEFELD: Well, I believe
2 that is the case.

3 CHAIR GRIFFON: I don't want to
4 put words -- you know, if you want time to --

5 MR. HINNEFELD: I don't see the
6 zinc actually included as one of the doses in
7 125.1, but our response does say that if you
8 assess these things less than two millirem
9 before 1961, and then one millirem later --

10 MR. FARVER: I think the point was
11 that it says they were all less than -- there
12 were no positive bioassays. That is not
13 really a true statement.

14 MEMBER MUNN: From the outset,
15 before we even set this entire program up, one
16 of our primary concerns was QA. That is one
17 of the things we expect SC&A to find for us,
18 is any QA issue and whether it is common or
19 not.

20 That particular type of problem
21 has not come up in my memory quite that way.

22 MR. FARVER: It has come up

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1 occasionally where the fallout value has been
2 exceeded and not assessed.

3 MEMBER MUNN: Yes, but it's very
4 rare that we have a -- I don't recall having
5 encountered a statement like the one you just
6 gave from the DR report.

7 MR. FARVER: Oh, where there were
8 no positive bioassays.

9 MEMBER MUNN: No positive
10 bioassays when we did, in fact, have positive
11 bioassays. That is an unusual finding.

12 MR. FARVER: I believe that is
13 unusual. It may have come up once before --

14 CHAIR GRIFFON: Yes.

15 MR. FARVER: -- but I think that
16 is not usual.

17 MEMBER MUNN: And, of course, that
18 was our point in having people look at it, is
19 to determine whether the findings were
20 indicative of a trend or whether they were
21 outliers. This appears to be an outlier, but
22 it is there.

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1 MR. FARVER: Stu, is this
2 something you would expect to catch on your
3 reviews?

4 CHAIR GRIFFON: Stu, if you are
5 ready to say -- I don't want to -- you know,
6 if you want to check back with this person
7 that wrote the original response, or are you
8 comfortable saying that according to the
9 procedure, NIOSH should have evaluated this
10 and there was a misstatement in the DR report,
11 but that the overall dose would have been
12 minimal?

13 MR. HINNEFELD: I think that's
14 pretty clear. I can interpret this pretty
15 well. I mean it is pretty clear that this
16 shouldn't have had this statement in there.

17 CHAIR GRIFFON: Yes. No, I mean I
18 just wanted to make sure that you are okay
19 with that.

20 MR. HINNEFELD: Yes.

21 CHAIR GRIFFON: Then we would
22 close that thing.

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1 MR. HINNEFELD: For this
2 particular finding, there's no additional
3 thing to do, but there's the remaining issue
4 of that, the language of the DR.

5 CHAIR GRIFFON: Right.

6 MR. HINNEFELD: It could be a case
7 -- I mean we have seen other cases where the
8 language in the DR, not this exact passage but
9 language in the DR doesn't really match what
10 was done. The numbers are right, but the
11 language in the DR doesn't match the numbers,
12 which gets to an aspect of the quality of dose
13 reconstruction. I mean it is right, but it
14 didn't say it right.

15 MR. FARVER: Is this segment of
16 the DR, is this boilerplate? In other words,
17 do you select something and it puts this in?

18 MR. HINNEFELD: It could. See, I
19 don't know.

20 MR. FARVER: I know there's
21 different templates out there --

22 CHAIR GRIFFON: Yes, several

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1 templates out there.

2 MR. FARVER: -- depending on what
3 the case is.

4 MR. HINNEFELD: Yes.

5 MR. FARVER: And I don't know if
6 they may have selected the wrong template.

7 MR. HINNEFELD: Yes. It would
8 seem at some point, though, you shouldn't be
9 saying there are no positive counts if there
10 were, even if the doses were trivial.

11 MEMBER MUNN: True.

12 MR. HINNEFELD: I mean I think
13 that is clear.

14 CHAIR GRIFFON: So I worded it
15 that way.

16 MR. HINNEFELD: Yes.

17 CHAIR GRIFFON: If that is the
18 case, then I think we are in agreement here,
19 so we can close this. SC&A agrees with that?

20 MR. FARVER: Yes.

21 CHAIR GRIFFON: Okay. All right,
22 so I have it closed out then.

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1 The next one I have -- now, again,
2 this doesn't have the April stuff in it
3 probably, but 125.9.

4 MR. FARVER: Well, there is 125.6.
5 This has to do with some dates that are
6 listed in the TBD.

7 CHAIR GRIFFON: Oh, okay, I have
8 SC&A agrees based on current TBD. Remaining
9 question is documenting what approach was
10 used.

11 MR. FARVER: In other words, the
12 TBD doesn't really match what is in the DR,
13 but this is where they will issue -- what are
14 they called, DR notes?

15 MR. HINNEFELD: Yes, or guides.

16 MR. FARVER: Guides or something
17 like that. Apparently between revisions, one
18 or two of these guides were put out, which
19 does have the correct dates in it.

20 This is where NIOSH provided that
21 document, and we reviewed it. It is in that
22 document.

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1 MR. HINNEFELD: Well, I think we
2 have kind of addressed this by putting in
3 those applicable guides for the site, you
4 know, those DR instructions.

5 What we are doing now, what we are
6 supposed to be doing --

7 CHAIR GRIFFON: So in this case
8 you went back and found --

9 MR. HINNEFELD: We found it. We
10 went back and found it.

11 CHAIR GRIFFON: Okay.

12 MR. HINNEFELD: But at this point
13 now, if there are instructions, DR
14 instructions, applicable to the site where the
15 dose reconstruction is from, they are putting
16 those in --

17 MR. FARVER: Okay.

18 MR. HINNEFELD: -- into the file.
19 That is what should be --

20 CHAIR GRIFFON: So, for this,
21 NIOSH provided the interim DR instructions,
22 and SC&A agrees with it?

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1 MR. FARVER: Yes.

2 CHAIR GRIFFON: Okay.

3 MEMBER MUNN: That was on the
4 April 15th information, too.

5 CHAIR GRIFFON: Okay. Alright. I
6 can't believe I missed the April 15th thing
7 somehow.

8 MEMBER MUNN: Yes.

9 CHAIR GRIFFON: It is somewhere on
10 the computer, I'm sure.

11 Okay, now 125.9, is that next?

12 MEMBER MUNN: Yes, the next one is
13 in the April 15th --

14 CHAIR GRIFFON: Yes, in the
15 response, okay.

16 MEMBER MUNN: Additional details
17 on what to address here.

18 CHAIR GRIFFON: That was April
19 15th?

20 MEMBER MUNN: April 15th.

21 MR. FARVER: Did we give you that
22 information back on the last meeting, Stu?

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1 MR. HINNEFELD: I don't know.

2 MR. FARVER: Just to give you a
3 little update on what this is about, once
4 again, this is Hanford. In the DOE documents,
5 there were four documented incidents. One was
6 a high dose rate and no bioassay requested.
7 Three others were potential, let's see,
8 elevated airborne, elevated airborne, positive
9 nasal smears. On each of those, it says
10 bioassay requested. These are in the form of
11 little pink slips that were present at the
12 time.

13 But the dates of the incidents and
14 of the bioassay requested did not match any of
15 the bioassay data. So our concern was do you
16 have all the bioassay results.

17 CHAIR GRIFFON: Okay.

18 MR. HINNEFELD: Okay. So the
19 bioassay request in the file, but no
20 corresponding bioassay --

21 MR. FARVER: As I recall, it was
22 an incident form.

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1 MR. HINNEFELD: Yes.

2 MR. FARVER: And it had all those
3 little boxes, bioassay requests --

4 MR. HINNEFELD: Okay. So the
5 person made this report, and one of the boxes
6 was bioassay, and he checked yes, and there
7 was no associated bioassay data.

8 CHAIR GRIFFON: No data associated
9 with it, right. Okay.

10 MR. HINNEFELD: Okay? That seems
11 clear to me.

12 CHAIR GRIFFON: All right.

13 MR. HINNEFELD: Part of our
14 response, though, was while there was not a
15 bioassay after those incidents, there was a
16 later bioassay. Is that true?

17 MR. FARVER: That's true.

18 MR. HINNEFELD: So there was an
19 assessment, and your point is if that was, in
20 fact, an intake or just do we make another
21 request for bioassay data?

22 MR. FARVER: I guess the question

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1 is what happened to the bioassay data.

2 MR. HINNEFELD: Well, of course,
3 we can't answer the question.

4 MR. FARVER: No, no, I understand
5 that. Typically, these workers remember when
6 they were involved in something and they
7 submit a sample.

8 MR. HINNEFELD: Well, if there's
9 an incident report that says bioassay
10 requested and you don't get bioassay data, one
11 of two things happened. Either they didn't
12 get the bioassay sample or Hanford lost the
13 results.

14 Is that a Hanford case?

15 MR. FARVER: Yes.

16 MR. HINNEFELD: So I don't know
17 what else.

18 CHAIR GRIFFON: I mean it might be
19 the broader question, too, of are you getting
20 all the data from Hanford? Could there be a
21 database of special bioassays? You know, some
22 of those sites have special bioassays --

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1 MR. HINNEFELD: This is true.

2 CHAIR GRIFFON: -- in a different
3 place than their general, routine bioassays.

4 MR. HINNEFELD: Hanford's
5 reputation was this was very good. So it
6 could be. I don't know.

7 CHAIR GRIFFON: But I think your
8 position --

9 MR. HINNEFELD: Our position was
10 that --

11 CHAIR GRIFFON: -- is that you got
12 data afterwards, so you can still bound --

13 MR. HINNEFELD: The dose
14 reconstruction should still be valid because
15 the assumption for that, the chronic
16 assumption for the later bioassay data in
17 virtually every case is more favorable than a
18 series of chronics -- or a series of acutes.
19 Because when you run a series of acutes,
20 you've got that one intake, but from then on,
21 that kind of dominates any subsequent -- we
22 saw them. The tail on that first one

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1 dominates what is later on. So the later ones
2 become sort of vanishing and small with the
3 bioassay, whereas the chronic usually gives
4 you a total intake over the input period that
5 is higher. I mean that is typically what
6 happens.

7 CHAIR GRIFFON: Yes, right.

8 MR. HINNEFELD: How does that look
9 on this case? I don't know.

10 CHAIR GRIFFON: I guess I was
11 looking at it more on the broader question,
12 and maybe you have evidence that in most cases
13 with Hanford cases you are getting the special
14 data.

15 MR. HINNEFELD: Yes, we can check.
16 I mean, we do have a number of --

17 CHAIR GRIFFON: That would be sort
18 of the way I would look at it. If it is like
19 it sounds, I'm pretty convinced that if you've
20 got the data afterwards, you probably are able
21 to bound the internal dose. So on other
22 people, on other situations, if you are

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1 missing all that data set, then it could be a
2 problem.

3 MR. FARVER: Could you put
4 something in your write-up that says the
5 person was involved in incidents --

6 CHAIR GRIFFON: Good point.

7 MR. FARVER: -- requested
8 bioassay; that data was not located?

9 CHAIR GRIFFON: Yes, right.
10 Right.

11 MR. FARVER: But we found that
12 this is -- we have before and after.

13 CHAIR GRIFFON: Yes, that's a good
14 point because you've got to remember who this
15 is going to, and they are going to say, I was
16 involved in three or four incidents that are
17 not even mentioned in this.

18 MR. FARVER: And they do say
19 something like that. They say there were
20 instances found in the files of contamination
21 events that involved the EE. The EE was
22 monitored for more internal and external

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1 radiation. Exposure above the appropriate
2 level of detection would have been measured by
3 the dosimetry and bioassay methods at the
4 time.

5 So it might just be a little
6 statement in between those two --

7 CHAIR GRIFFON: Yes.

8 MR. FARVER: -- about that. Even
9 though bioassay was requested in three
10 instances, it may not have been provided, or
11 something like that.

12 CHAIR GRIFFON: Yes.

13 MR. FARVER: Because it should
14 have been addressed, I believe.

15 MR. HINNEFELD: Yes, different
16 people would argue with that, but I can see
17 your point.

18 MR. FARVER: Yes. I could argue
19 with myself.

20 (Laughter.)

21 MR. HINNEFELD: I do that
22 sometimes with myself.

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1 MR. FARVER: I never win.

2 (Laughter.)

3 MR. HINNEFELD: Or I always win,
4 it depends on how you look at it.

5 CHAIR GRIFFON: So where do we --
6 I mean I understand both of your arguments.
7 Where do we go with this?

8 MR. HINNEFELD: Well, our last
9 response was we are not really sure what we
10 are being asked to respond to. I think I have
11 a little better idea now of what it is we are
12 responding to.

13 CHAIR GRIFFON: Okay. So you are
14 going to follow up on it? Alright.

15 MR. HINNEFELD: Yes. Yes, I
16 intend, if it sticks in my memory long enough,
17 I intend to give some more clear direction to
18 the people who fill out these responses and
19 come up with something like, respond to these
20 questions.

21 The questions I have are, should
22 we check with Hanford to see if incident data

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1 might be somewhere else. I think they are
2 going to tell us no, if it is related to an
3 individual, it is in the records. I think
4 that is what they are going to tell us. We
5 can check.

6 And should the DR mention
7 incidents that, you know, where bioassay was
8 requested but the bioassay is missing, and are
9 we confident that our chronic assumption is,
10 in this case, bound -- what would be the acute
11 intake associated with --

12 MR. FARVER: Well, not necessarily
13 mention in it in the DR report, but just a
14 note in the file --

15 MR. HINNEFELD: Okay.

16 MR. FARVER: -- saying that there
17 were four incidents on such-and-such date,
18 requested bioassay on three of them. The
19 dates do not seem to match the available
20 bioassay data. Just a note in the file
21 somewhere like that.

22 MR. HINNEFELD: An acknowledgment

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1 that we noticed it and felt that we had done
2 an adequate dose reconstruction --

3 MR. FARVER: Right, because you
4 would expect them to match.

5 MEMBER MUNN: Yes, you would.

6 MR. HINNEFELD: Yes,
7 realistically, you would expect, if you ask
8 for a bioassay, you would expect to be able to
9 find it.

10 MR. FARVER: Something within a
11 day or two of that date.

12 MR. HINNEFELD: Yes.

13 MR. FARVER: Or even a week.

14 MR. HINNEFELD: Yes.

15 CHAIR GRIFFON: Okay. 126.2, do
16 we have a 4/15 response on this?

17 MEMBER MUNN: Not on my file.

18 CHAIR GRIFFON: Not on this one?

19 MEMBER MUNN: No.

20 CHAIR GRIFFON: NIOSH to verify
21 based on work history, OTIB-0002 as
22 appropriate, and the certainty that it is

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1 bounding.

2 MR. HINNEFELD: Oh, you know what?

3 I have a note in bold on that April 15th that
4 says there are additional files.

5 MR. FARVER: Right, you sent a
6 bunch of files.

7 MR. HINNEFELD: Yes.

8 MR. FARVER: And I looked at them.

9 MR. HINNEFELD: They don't talk
10 about this?

11 MR. FARVER: I really couldn't
12 make heads or tails out of what was applied
13 and why.

14 MR. HINNEFELD: Yes, welcome to my
15 world.

16 MR. FARVER: This is probably one
17 of those I need to get together with Scott or
18 someone who provided this response.

19 MR. HINNEFELD: Yes, if you could
20 call Scott directly --

21 MR. FARVER: Okay.

22 MR. HINNEFELD: Scott sends them

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1 to me. I'm not sure, he may have to check --

2 MR. FARVER: I have to find my
3 notes here.

4 MR. HINNEFELD: Okay.

5 MR. FARVER: Get with Scott.

6 CHAIR GRIFFON: Okay.

7 MEMBER MUNN: The response, which
8 was short, wasn't dated. Please see file
9 SCA125, 126, 127, 130, 135, 136, and 144-
10 additionalresponses.doc.

11 CHAIR GRIFFON: Got it.

12 MEMBER MUNN: Yes, I thought you
13 did.

14 (Laughter.)

15 CHAIR GRIFFON: 127.1.

16 MEMBER MUNN: There is an April 15
17 response.

18 CHAIR GRIFFON: Okay.

19 MS. BEHLING: This is Kathy
20 Behling. I think I can take care of this one.
21 127.1, this was a Hanford PNNL site, and the
22 individual worked in both the 100 and 300

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1 areas. NIOSH did acknowledge that.

2 However, for this particular case,
3 they assigned the EE strictly to the 300 area.

4 We initially questioned that because of the
5 information she had provided on the CATI
6 report and the information we found in the
7 files, along with the fact that this was
8 actually a revised '03 construction report
9 because of an additional cancer that had been
10 added.

11 In the original dose
12 reconstruction, NIOSH had included both the
13 100 and the 300 areas and considered the
14 potential for neutron doses. But in their
15 April 15th response, which I did review and I
16 did go into the files, they indicated that --
17 and this file is a three-ring binder file
18 thickness, very large -- but it did indicate,
19 they did indicate that on the X-ray records it
20 looks as if she had been in Building 108 and
21 also worked in the laboratory and then,
22 ultimately, in Building 1713.

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1 I was able to confirm that.
2 Looking at the Hanford records, it doesn't
3 appear that there would be a significant
4 potential for neutron doses in those areas.
5 So I do agree with NIOSH's response here.

6 MEMBER MUNN: That's true, there
7 would not be a neutron exposure there, except
8 under extremely unusual circumstances. I
9 can't imagine.

10 CHAIR GRIFFON: Okay, so we have
11 agreement on that, and that will be closed
12 then.

13 MR. FARVER: Yes.

14 CHAIR GRIFFON: 127.5.

15 MR. FARVER: That also relates
16 back to the --

17 MR. HINNEFELD: That is where the
18 person worked, 108. I think 117.1 would be
19 relevant --

20 CHAIR GRIFFON: The same.

21 MR. HINNEFELD: -- to that
22 finding.

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1 MEMBER MUNN: It would.

2 CHAIR GRIFFON: All right.

3 Okay, 127.8, I think you have
4 probably provided this, but I had NIOSH just
5 send a response.

6 MR. HINNEFELD: We sent it on
7 April 15th.

8 CHAIR GRIFFON: Yes.

9 MEMBER MUNN: April 15, yes.

10 MR. FARVER: Kathy, have you had a
11 chance to look at 127.8?

12 MS. BEHLING: No, I haven't.

13 MR. FARVER: Okay.

14 MS. BEHLING: Sorry about that.
15 I'm going to have to keep this one open.

16 MR. FARVER: That's okay. I
17 believe this is partly the long-standing
18 fission products.

19 MR. HINNEFELD: I think it is.
20 From reading it, that's what it sounds like.

21 MEMBER MUNN: Yes.

22 MR. FARVER: And that's why I

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1 would prefer Kathy look at this because it
2 predates me.

3 MS. BEHLING: Is this one of those
4 issues that you were going to provide a white
5 paper on?

6 MR. HINNEFELD: Yes. There is
7 kind of, what we call, a global issue. I
8 think the fission-product approach is sort of
9 a global issue, and it may already be
10 identified somewhere as a global issue, if
11 this is a part of that issue.

12 I say there's a global issue about
13 fission product internal doses, but I'm not
14 sure that everything that everyone has ever
15 commented on fission product internal doses is
16 captured. I guess we try to capture
17 everything that anybody has ever commented on
18 in that, whatever we put together. As you can
19 imagine, it is complicated.

20 MEMBER MUNN: You have 1954, '39.
21 There's a lot more out there now.

22 CHAIR GRIFFON: Okay, 127.10.

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1 MEMBER MUNN: April 15th response.

2 CHAIR GRIFFON: This is also an
3 April 15th response?

4 MEMBER MUNN: Yes.

5 CHAIR GRIFFON: And did SC&A
6 review that?

7 MR. FARVER: I don't have the
8 response.

9 MS. BEHLING: I was going to say I
10 didn't review it because I don't think I have
11 it.

12 CHAIR GRIFFON: Oh, really?

13 MEMBER MUNN: I have it.

14 CHAIR GRIFFON: Wanda has it.

15 MR. FARVER: I wonder where the
16 response is. I do not have that one for
17 127.10.

18 MR. HINNEFELD: Well, I am
19 confident it was an email I sent on the 15th.
20 So I will send that to everybody.

21 CHAIR GRIFFON: Okay.

22 MR. HINNEFELD: When I have a

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1 break, I will send the emails I sent.

2 CHAIR GRIFFON: All right.

3 MR. HINNEFELD: I think it must be
4 there. I can't imagine how else the matrix
5 came to be in my inbox.

6 MEMBER MUNN: You or I could read
7 it to them.

8 MR. HINNEFELD: Oh, gosh, really?

9 MEMBER MUNN: Well, it's a short
10 one.

11 MR. HINNEFELD: Well, relatively
12 speaking.

13 CHAIR GRIFFON: Do you want go
14 ahead and read it, or do you want to send it?

15 It doesn't matter to me.

16 MR. HINNEFELD: I can read it.

17 CHAIR GRIFFON: Yes.

18 MR. HINNEFELD: As discussed in
19 the response to finding 127.8, which is the
20 fission products claim we have talked about,
21 undetected internal doses from radionuclides
22 typically detected by in vitro bioassay,

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1 including strontium-90, carbon-14, and
2 phosphorus-32, have been bounded in accordance
3 with ORAU-TKBS-65, which is a Hanford internal
4 Rev 1 -- I think it is Hanford, whatever site
5 we are talking about internal -- by the
6 assignment of an inhalation intake of 1300
7 picocuries per day and an ingestion intake of
8 40 picocuries per day of ruthenium-106 type F.

9 So I mean it speaks to the
10 approach of pick the fission product that is
11 the worst, put the credible total activity for
12 fission products into that radionuclide, and
13 you have bounded the dose. I mean that's
14 supposed to be the approach.

15 So that is what it says, but I
16 think it must be attached to all those emails.

17 Otherwise, I can't figure out where I got it.

18 MR. FARVER: Okay, we'll look at
19 those two together then.

20 CHAIR GRIFFON: All right. And
21 let's see, apparently, there still are some
22 more here. I don't know that we necessarily

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1 have to finish this before lunch.

2 But I will move to 129.5, and why
3 don't we pick it up there after lunch? Is
4 that all right?

5 MR. FARVER: Yes.

6 CHAIR GRIFFON: I will try to get
7 some of these loose ends during lunch, too.

8 I apologize for not having the
9 April 15th updates on my latest version here,
10 but we will get up-to-speed.

11 MEMBER MUNN: Well, I apologize
12 for not having the full matrix, too.

13 MR. HINNEFELD: Well, I think one
14 problem, though, is, again, we entered them on
15 probably the version before your 4/15 version.

16 So you have a 4/15 version --

17 CHAIR GRIFFON: Yes, yes.

18 MR. HINNEFELD: They crossed in
19 the mail.

20 CHAIR GRIFFON: Yes, and I really
21 think my updated versions are on my other
22 computer.

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1 MR. HINNEFELD: Okay.

2 CHAIR GRIFFON: Anyway, we will
3 work through it, though. We are getting
4 there.

5 So we will pick it up on 129.5
6 after lunch.

7 MR. KATZ: Go ahead, Kathy.

8 MS. BEHLING: Just one other
9 question. I am thinking ahead to the 8th set
10 matrix. What version of that matrix are we
11 using?

12 (Laughter.)

13 CHAIR GRIFFON: The latest one I
14 have is 3/12. So I may, during the break,
15 look and see if we have a 4/15 one. We may be
16 in the same position of looking at either 3/12
17 or 4/15, would be the ones you should have.

18 MS. BEHLING: Okay. All right,
19 thank you.

20 CHAIR GRIFFON: All right.

21 MR. KATZ: So related to this,
22 since you guys are now coming into OCAS

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1 directly, can't you just keep a master matrix?

2 MR. HINNEFELD: Yes, we have --

3 MR. KATZ: I think if you just had
4 a master matrix on the OCAS --

5 MR. HINNEFELD: Yes, we can put --

6 MR. KATZ: You could?

7 MR. HINNEFELD: I think we should
8 be able to use some business rules here to
9 make sure that we know. See, when you do
10 that, you've got to make sure that only one
11 person tries to pull it up --

12 CHAIR GRIFFON: That's right.
13 Right.

14 MR. HINNEFELD: So Word won't
15 stop, I don't think.

16 MR. KATZ: Right.

17 MR. HINNEFELD: So we would have
18 to have some business rules about whose turn
19 is it to write to it for this week.

20 MR. KATZ: Right.

21 MR. HINNEFELD: And then only that
22 person writes to it.

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1 MR. KATZ: But it would be handy.

2 MR. HINNEFELD: But we could do
3 that. It would be a place to put it.

4 MR. FARVER: You could just put
5 the updated version up there, and you can
6 protect it.

7 MR. HINNEFELD: Yes, we need to
8 use the read-only --

9 CHAIR GRIFFON: For the read-only
10 version we have.

11 MR. FARVER: That way, people can
12 still see what's the most recent one, and what
13 actions they have.

14 MR. HINNEFELD: Yes, actually,
15 you're right. Putting a read-only up like
16 that would be very similar to having like
17 maybe the access to DB.

18 MR. KATZ: It would be very easy
19 to do.

20 MR. HINNEFELD: And then people
21 can look at it, and then however we want to
22 deal with updates. Mark, as the Chairperson,

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1 I guess would prepare the next version, put it
2 out there.

3 CHAIR GRIFFON: We can do that.
4 Kathy has developed a draft database, but --

5 MR. HINNEFELD: Yes, and the SQL
6 version is there somewhere. In fact, I got an
7 email from the developer today. So I,
8 apparently, have some more work to do with the
9 developer on the SQL version of the procedures
10 DB.

11 CHAIR GRIFFON: Oh, the procedures
12 DB, yes. We also have a draft --

13 MR. HINNEFELD: Yes, we have a
14 draft.

15 CHAIR GRIFFON: -- for the DR,
16 which I still need to discuss with her a
17 little bit further. But in the meantime, we
18 can do the read-only, yes. Yes, we can work
19 through some rules on that.

20 MR. HINNEFELD: Yes.

21 MEMBER MUNN: We would hope that,
22 even though the OCAS file was a read-only

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1 file, anyone who downloaded it to their
2 computer would be able to make personal notes
3 on what they have, instead of getting what I
4 get, which is this -- is a read-only file.
5 You can't save the changes you have just made
6 to it.

7 MR. HINNEFELD: I think there is a
8 way. You open it up and save it to a
9 different name on your own computer.

10 CHAIR GRIFFON: Yes, I know there
11 is a way.

12 MR. KATZ: Right.

13 CHAIR GRIFFON: Save it and change
14 the name.

15 MR. KATZ: You just change the
16 name.

17 MR. HINNEFELD: Yes, change the
18 name on your computer.

19 CHAIR GRIFFON: And you might have
20 to change document properties, but it is
21 pretty easy to get around that.

22 MR. HINNEFELD: Yes, you may have

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1 to go to the property dialog box and take off
2 the read-only.

3 CHAIR GRIFFON: Take off the read-
4 only, yes.

5 MR. FARVER: I have already done
6 it where you just select all and you copy and
7 paste it into another document.

8 CHAIR GRIFFON: Yes, do a Save As.

9 MR. KATZ: If you change the name,
10 usually that strips it away.

11 CHAIR GRIFFON: Anyway, we can
12 work through this. Actually, I think our
13 system was working pretty good until I lost my
14 4/15 updates. It has been a while since our
15 last meeting. So, anyway, we will work
16 through that.

17 I think we are ready to break for
18 lunch. Kathy and Hans, you are probably the
19 only ones hanging on.

20 MS. BEHLING: Yes, we're still
21 here. Going off for lunch?

22 CHAIR GRIFFON: Yes, reconvene at

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1 1:00, I guess, or a few minutes after 1:00,
2 yes.

3 MR. KATZ: Five past 1:00.

4 CHAIR GRIFFON: All right, thank
5 you.

6 MR. KATZ: Thanks, you guys.

7 (Whereupon, the above-entitled
8 matter went off the record for lunch at 12:09
9 p.m. and resumed at 1:18 p.m.)

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

22

1:18 p.m.

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1 MR. KATZ: This is the
2 Subcommittee on Dose Reconstruction Reviews.
3 We are reconvening after lunch.

4 Do we have the Behling's back with
5 us?

6 MS. BEHLING: Yes, we do. We're
7 here.

8 CHAIR GRIFFON: Okay.

9 MR. KATZ: Anyone else to check in
10 with?

11 CHAIR GRIFFON: Good afternoon,
12 Kathy.

13 (No response.)

14 No, I don't think so.

15 MEMBER MUNN: Did Dr. Poston ever
16 show up?

17 MR. KATZ: I am sure John would
18 have said so if he had joined us.

19 CHAIR GRIFFON: All right, we are
20 back on the 7th set of cases, finding number
21 129.5.

22 Again, I may have to do the same

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1 thing with the April update. If there was an
2 April update, I don't know about it.

3 MEMBER MUNN: I don't have one on
4 my computer.

5 CHAIR GRIFFON: You don't have
6 one? So I have a remaining action for NIOSH
7 on this one.

8 This is fission products stuff,
9 actually, TIB-0054.

10 MEMBER MUNN: TIB-0054.

11 CHAIR GRIFFON: NIOSH will compare
12 whole-body count results to the results from
13 TIB-0054, I guess, that chronology.

14 MR. HINNEFELD: And we don't have
15 anything to add right now.

16 CHAIR GRIFFON: Yes, okay. So it
17 is just going to remain an open action.

18 The next one I have is 130.6.

19 MEMBER MUNN: April 15th addition.

20 CHAIR GRIFFON: There is an
21 addition? Okay.

22 Can you summarize that in three

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1 words or less?

2 MEMBER MUNN: Presumptive exposure
3 to fission products that should be tied to
4 reactor facility, and this one has bioassay
5 monitoring records, different areas.

6 CHAIR GRIFFON: So this is a
7 question of where the person worked relative
8 to fission product exposure. Is that the
9 issue here?

10 MEMBER MUNN: His external dose is
11 listed. Bioassay results, calculated whole-
12 body dose, entered in quarterly. No film
13 badge records would be expected for that time.
14 It is a Savannah River case.

15 CHAIR GRIFFON: Doug, did you get
16 this one?

17 MR. FARVER: I'm coming up to it
18 here.

19 CHAIR GRIFFON: Okay.

20 MR. FARVER: Trying to find out
21 what the finding meant. Oh, yes, I remember
22 looking at this now and getting confused by

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1 it. Yes, I would rather go back to square
2 one, the data files.

3 CHAIR GRIFFON: Okay. So you've
4 got their response, and you will have to look
5 at it?

6 MR. FARVER: Yes.

7 CHAIR GRIFFON: You have to review
8 it further? Alright.

9 MR. FARVER: It's for an action.

10 CHAIR GRIFFON: Okay. 131.4.

11 MEMBER MUNN: My screen doesn't
12 show anything new.

13 CHAIR GRIFFON: It says, NIOSH
14 will provide a sample characterization, is the
15 last thing I have for 3/12. I don't know if
16 we got any further than that.

17 MR. HINNEFELD: I don't see
18 anything additional here.

19 MR. FARVER: I couldn't find any
20 sample calculations.

21 MR. HINNEFELD: I think that is
22 still ours, though.

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1 CHAIR GRIFFON: Okay. I will
2 leave it as a remaining action for NIOSH.

3 131.6. Was that updated at all?

4 MEMBER MUNN: I don't see anything
5 in here on my list.

6 CHAIR GRIFFON: This says the same
7 thing. NIOSH will compare the whole body
8 counts to TIB-0054 result. That's the same as
9 the last case. So I guess the same method was
10 used.

11 MR. HINNEFELD: Which one were we
12 just on?

13 CHAIR GRIFFON: 131.6

14 MEMBER MUNN: It's the same thing,
15 right?

16 CHAIR GRIFFON: Yes, it's the same
17 as 130.6, yes.

18 MEMBER MUNN: Yes, it is the same.

19 MR. FARVER: Well, it is the same
20 as 129.5.

21 CHAIR GRIFFON: I'm sorry, yes.
22 Yes, 129.

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1 I'm assuming we haven't got an
2 update on that, right?

3 MR. FARVER: Right.

4 CHAIR GRIFFON: Okay. Moving
5 right along, I'm down to 135.1.

6 MEMBER MUNN: April 15 update.
7 The worker was routinely monitored for
8 external radiation exposure throughout his
9 career. Therefore, the revised doses were
10 base reported dose and missed dose based on
11 actual badges.

12 CHAIR GRIFFON: Doug, had you
13 received that before?

14 MR. FARVER: Yes. I'm trying to
15 see if we can find the original finding.

16 MS. BEHLING: Excuse me. This is
17 Kathy.

18 I believe that this might have
19 been an issue of blanks in the record and how
20 we treat blanks, and whether they were
21 actually considered missed or they just were
22 not counted at all.

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1 MEMBER MUNN: That's what it looks
2 like. The language of the finding would lead
3 that to be.

4 MS. BEHLING: This individual
5 worked at Y-12 and K-25.

6 CHAIR GRIFFON: Doug, do you want
7 a little more time on this? You don't need to
8 be put on the spot here.

9 MR. FARVER: Yes, let me look at
10 this.

11 CHAIR GRIFFON: Yes.

12 MR. FARVER: I think it is just a
13 real simple one.

14 CHAIR GRIFFON: All right.

15 MR. FARVER: I'll take that
16 action.

17 MR. HINNEFELD: It looks like
18 before we said, yes, valid comment.

19 CHAIR GRIFFON: Yes.

20 MR. HINNEFELD: I don't know how
21 we concluded the person was monitored. The
22 response doesn't say how we concluded that.

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1 So we had a mixture of blanks and zeroes in
2 the record.

3 CHAIR GRIFFON: Right. And if you
4 just want to walk it through, that's fine,
5 yes, just to make sure.

6 MR. FARVER: Yes, the part that
7 threw me was their April response. I didn't
8 understand that.

9 MR. HINNEFELD: The which?

10 MR. FARVER: Your April 15th
11 response. It looks like it was about ready to
12 close or something from up above. We said it
13 is a valid comment. Okay, well that should
14 have closed it, so I didn't understand. So
15 that is what confused me.

16 CHAIR GRIFFON: Yes, okay.

17 MR. HINNEFELD: It seems like
18 there was a question from the December
19 meeting, it looks like, about how was the dose
20 assigned originally, and I didn't know. That
21 looks like what it was.

22 But it appears that in the

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1 original dose reconstruction a blank was
2 treated as unmonitored. So the person was
3 given an ambient dose, whereas we have
4 concluded since then that they were monitored
5 the entire time. So ambient is not correct
6 even though the record shows a blank. This
7 should get a missed dose for that period as
8 opposed to an ambient.

9 So that appears to be what the
10 response says.

11 MR. FARVER: It seems to be the
12 zeroes are blanks.

13 MR. HINNEFELD: Yes.

14 CHAIR GRIFFON: Yes.

15 MR. FARVER: I don't understand
16 why we didn't close it. That was all.

17 MEMBER MUNN: I don't either.

18 MR. FARVER: We are not going to
19 do any more on it. Let's close it.

20 CHAIR GRIFFON: Yes.

21 MEMBER MUNN: It makes sense based
22 on recorded dose and missed dose. That is

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1 what we anticipated should be done.

2 MS. BEHLING: I think we were
3 questioning if it should be missed dose or co-
4 worker dose.

5 CHAIR GRIFFON: Co-worker dose,
6 yes.

7 Why don't we just leave it open
8 and let you review the record, just to make
9 sure we get it right? Because, yes, I agree
10 with Kathy, it was a question of missed or co-
11 worker. Since the person was monitored all
12 the time, when you fill in the gaps, it would
13 be simply a --

14 MR. HINNEFELD: Then the question
15 would become how do we know it was monitored
16 all the time?

17 CHAIR GRIFFON: Yes, that's true.
18 Right, right.

19 MR. HINNEFELD: Because if they
20 weren't monitored all the time --

21 CHAIR GRIFFON: I guess that is
22 what we are asking.

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1 MR. HINNEFELD: Yes.

2 CHAIR GRIFFON: They could have
3 not been monitored for good reason. They
4 could have left the location or whatever.

5 MR. HINNEFELD: Yes, or if they
6 were monitored full-time and those records are
7 missing --

8 CHAIR GRIFFON: Right.

9 MR. HINNEFELD: -- well, then, how
10 do you know missed is right? Should it be co-
11 worker for the period that is blanks?

12 CHAIR GRIFFON: Right.

13 MR. HINNEFELD: That sounds like
14 that is the issue. I'm going to ask how did
15 we conclude --

16 CHAIR GRIFFON: What set was this
17 again?

18 MR. FARVER: K-25 and Y-12.

19 CHAIR GRIFFON: Oh, yes, okay.
20 All right, I'm going to leave that open.

21 135.4.

22 MR. HINNEFELD: Okay, we haven't

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1 provided anything.

2 CHAIR GRIFFON: This is potential
3 tritium exposure at Y-12, right?

4 MEMBER MUNN: Yes.

5 CHAIR GRIFFON: That's the issue?

6 MEMBER MUNN: Correct.

7 CHAIR GRIFFON: Yes. There was no
8 April update, was there?

9 MEMBER MUNN: No.

10 CHAIR GRIFFON: Okay. 136.3.

11 MEMBER MUNN: That is one of those
12 where the NIOSH information that was sent out
13 April 15th says, please see the file on all
14 these, 125, 126, et cetera, and additional
15 responses. They sent a document out.

16 MR. FARVER: I didn't see anything
17 in that file that talked about X-ray
18 frequency. That was the only thing.

19 CHAIR GRIFFON: So that file was
20 sent out for April 15th? That was part of the
21 April 15th? Okay. What site is this?

22 MR. FARVER: I don't know.

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1 MS. BEHLING: Rocky Flats.

2 MR. HINNEFELD: Oh, that's an
3 interesting one. It appears that we
4 originally did the dose reconstruction based
5 on the records we got. Is that what's
6 happened?

7 Yes. It says, however, in this
8 claim, worker's X-ray records were provided.

9 So we subsequently found out that
10 the records we were given, the X-ray records
11 from Rocky Flats, weren't necessarily
12 complete, that there is a secondary storage
13 that included the actual films at Rocky Flats.

14 Since then, we have gone and they
15 have actually generated a record from those
16 films that has all of the films. So all of
17 the exams are there, but the record we were
18 getting was not necessarily the complete
19 record. It might have been, but it wasn't
20 necessarily.

21 So this, then, becomes a question
22 of, now that we have retrieved those other

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1 records, the complete set --

2 CHAIR GRIFFON: You have to
3 reevaluate this?

4 MR. HINNEFELD: Yes.

5 CHAIR GRIFFON: Yes.

6 MR. HINNEFELD: I think that has
7 been done. I think we evaluated each time
8 each of those cases when we got them.

9 CHAIR GRIFFON: Right.

10 MR. HINNEFELD: But that would be
11 the case here.

12 CHAIR GRIFFON: Above this it says
13 this case is under PER review anyway. It
14 might be for other parts of --

15 MR. HINNEFELD: Yes, it could be
16 under PER because it is Super S or something.
17 It could be under it for that.

18 CHAIR GRIFFON: Right.

19 MR. HINNEFELD: It's our action to
20 figure out where we are --

21 CHAIR GRIFFON: All right.

22 MR. HINNEFELD: -- and what

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1 happened to it.

2 Actually, well, it would take me
3 too long. I might be able to find out what
4 happened to it, but it would take me too long.

5 CHAIR GRIFFON: All right. Now
6 this doesn't necessarily carry through to the
7 other ones.

8 136.4, this looks like --

9 MEMBER MUNN: It says, see the
10 files.

11 MR. FARVER: This is where they
12 did send out many files.

13 MEMBER MUNN: Many files. This
14 one is '06.

15 CHAIR GRIFFON: Oh, yes, I do
16 recall this one now.

17 MEMBER MUNN: One, two, three,
18 four, five, six, seven files.

19 CHAIR GRIFFON: So you shared the
20 IMBA runs?

21 MR. HINNEFELD: We shared the IMBA
22 runs, right.

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1 CHAIR GRIFFON: Yes, right. And
2 what is the outcome of that? Any outcome?

3 MR. HINNEFELD: Well, I don't
4 think we've talked about it.

5 MR. FARVER: We haven't talked
6 about it, and this is one of those where I
7 argue with myself on both sides. So I'm not
8 sure.

9 If you just look at the data and
10 fit the data, there's many fits to the data
11 that look good. Now how do you show one is
12 better than the other? This is what we come
13 back to. When you are looking at a visual
14 fit, how do you determine one fits better than
15 the other? This has been brought up before.

16 That is the point I am struggling
17 with. I want to go back and look at this and
18 see if I can come up with a way.

19 CHAIR GRIFFON: And does NIOSH, I
20 mean you don't procedurally address goodness
21 of fit in any fashion, do you, for your IMBA
22 runs?

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1 MR. HINNEFELD: Well, I don't know
2 for sure.

3 CHAIR GRIFFON: Yes.

4 MR. FARVER: It has been talked
5 about by --

6 MR. HINNEFELD: IMBA will do a
7 best fit.

8 CHAIR GRIFFON: This is a Liz
9 question.

10 MR. HINNEFELD: Yes, it's a Liz
11 question. IMBA will do its best fit based on
12 parameters that you give it. Essentially, the
13 amount of error on each bioassay sample,
14 whether it is absolute or relative to the
15 result, what to do about less-than-detectable
16 values, how those are treated. All these
17 things affect how IMBA is going to fit it.

18 CHAIR GRIFFON: Right.

19 MR. HINNEFELD: So even using the
20 data with existing bioassay points and even
21 using IMBA's automatic best fit, depending on
22 what you tell it to do, it will fit it

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1 differently, I think. I think that is a true
2 statement.

3 MR. FARVER: Yes.

4 CHAIR GRIFFON: I'm pretty sure
5 that's right.

6 MS. BRACKETT: This is Liz. I
7 heard someone say this is a Liz question.

8 (Laughter.)

9 CHAIR GRIFFON: Liz, didn't know
10 you were there.

11 MR. FARVER: Liz is lurking.

12 CHAIR GRIFFON: Did you hear the
13 question?

14 MS. BRACKETT: Yes. It's a
15 professional judgment, and IMBA does the fit.
16 You're right, it is not proceduralized, but
17 the basic guidance about the dose
18 reconstruction is that they should use
19 defaults when possible. If they are not in
20 the general ballpark of it being close, you
21 know, 40 to 60, in that range, then they don't
22 need to do anything more specific.

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1 But as far as them trying to get a
2 best estimate, it is open to professional
3 judgment. I am working on revising OTIB-0060,
4 which is the internal dosimetry '02 guidance
5 document. I'm trying to put in some details.

6 But this is a really difficult thing because
7 different people have different ideas on what
8 is the best fit.

9 CHAIR GRIFFON: Yes, that's why I
10 asked.

11 MR. FARVER: So for this
12 particular case it is probably not going to
13 matter because it is a PoC of about 36
14 percent.

15 CHAIR GRIFFON: That was my next
16 question.

17 MR. FARVER: And the dose we are
18 looking at is somewhere between -- I don't
19 know, what did we say, 8 and maybe 30 rem. I
20 mean that is the range. I'm not even sure
21 that is enough to kick it up.

22 CHAIR GRIFFON: Yes. So with all

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1 the different variations on fit, the worst
2 case would still not affect this PoC
3 significantly; is that what you're saying?

4 MR. FARVER: I'm guessing that.

5 CHAIR GRIFFON: Yes.

6 MR. FARVER: I don't think it
7 would.

8 CHAIR GRIFFON: Right, right.

9 MS. BRACKETT: And that's why I
10 try to tell the dose reconstructors not to try
11 to get maybe the very best fit for every case
12 because that would be very, very time-
13 consuming, if we did that on all cases. It is
14 more important that you spend the time on the
15 cases where it is going to make a difference
16 than on the cases where it won't.

17 So if the defaults don't look too
18 bad and they are not in the ballpark of it
19 making a difference, then they should not be
20 going any further than that.

21 CHAIR GRIFFON: Yes, I'm asking
22 for this particular case.

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1 MS. BRACKETT: Right. I haven't
2 looked at this one.

3 MR. FARVER: It probably will not
4 affect this case, but because we have this
5 other issue ongoing about the newness of
6 things, I mean, and professional judgment, and
7 because we have some real data here from this
8 case, I would like to look at it and see if
9 you went and did that for this case and tried
10 to do a really best fit, is there a way you
11 could actually quantify it?

12 So let's just keep this open so we
13 know to discuss it.

14 CHAIR GRIFFON: All right.

15 MR. FARVER: And I will take the
16 action to put something together.

17 MS. BRACKETT: Actually, I think
18 the dose that we estimated was about 42 rem,
19 and the NIOSH dose was like 18.6 on this
20 particular case.

21 MR. FARVER: Yes, so you are
22 looking at not too much difference, 20 rem.

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1 I'm not sure that that would kick it up from
2 35 percent.

3 MEMBER MUNN: Probably not far
4 enough. Well, it's a good test case to make
5 the decision on.

6 MR. ELLIOTT: Yes, considering the
7 circumstances of the claim.

8 MR. HINNEFELD: Yes, the
9 circumstances of the claim.

10 CHAIR GRIFFON: Yes, yes. All
11 right, so it's worth --

12 MR. ELLIOTT: But lung would be
13 different than bladder, of course.

14 CHAIR GRIFFON: Yes, yes, yes.

15 MR. HINNEFELD: Yes, it is kind of
16 an interesting case.

17 CHAIR GRIFFON: Yes.

18 MR. HINNEFELD: Well, I won't get
19 into it.

20 CHAIR GRIFFON: All right.

21 MR. HINNEFELD: I don't know all
22 the specifics.

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1 CHAIR GRIFFON: And 136.5 is the
2 same conclusion, I think. It is going to
3 remain open.

4 MEMBER MUNN: It says, we will be
5 providing response next week.

6 CHAIR GRIFFON: All right.

7 MEMBER MUNN: That was in that
8 list of things we got.

9 CHAIR GRIFFON: Is this more of a
10 question, though, is this exactly the same
11 issue or is this a little different? One
12 thirty-six point five; it's a question on the
13 CATI. So it is a question of where they
14 worked there. Yes, it is the workplace
15 issues.

16 MR. FARVER: This has to do with
17 he worked in a building that caught fire.

18 CHAIR GRIFFON: Right.

19 MR. FARVER: So you would expect
20 more of a type S uranium probably.

21 CHAIR GRIFFON: But NIOSH says
22 they -- NIOSH does agree the report

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1 incorrectly references his work and so -- not
2 the fire. Right. But, apparently, that
3 didn't affect the -- well, I don't know. Stu,
4 did that affect the assessment of intake or
5 the assessment of dose?

6 You're saying that you agree.
7 NIOSH does agree that the report incorrectly
8 references his work, and somebody said it's
9 just not the fire in 444. I think you're
10 saying it wouldn't cause you to change the
11 model.

12 MR. HINNEFELD: Right, because
13 there's an issue, I guess, with there is a
14 fairly short latency on this period. It is
15 oddball, but this one worked out.

16 CHAIR GRIFFON: Oh, okay.

17 MR. HINNEFELD: The class, type M,
18 actually gave a higher lung estimate than type
19 S. It's an oddball thing because it doesn't
20 usually work that way.

21 MR. FARVER: Well, it has to do
22 with fitting lung and urine data.

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1 MR. HINNEFELD: Yes, because
2 you've got two sets of data. Anyway, I think
3 it's similar. It's wrapped into it.

4 In fact, it is tied to the CATI
5 because the person mentioned the fire and the
6 CATI.

7 CHAIR GRIFFON: Right, right.

8 MEMBER MUNN: There were two files
9 that you transmitted about type S, which I now
10 cannot open.

11 MR. FARVER: I would say these two
12 findings tie together.

13 CHAIR GRIFFON: Okay, so you're
14 going to follow up on them? Yes.

15 MR. HINNEFELD: I just found a
16 note that we may have something even more
17 recently.

18 MEMBER MUNN: Yes, you did. You
19 sent two, well, on 4/15, you sent two files on
20 case 136, type S, but I cannot open them.

21 CHAIR GRIFFON: So you think there
22 was something else sent, Stu?

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1 MR. HINNEFELD: Well, I think
2 something else has been prepared, but it may
3 not have been sent to the Subcommittee.

4 CHAIR GRIFFON: Oh, okay.

5 MR. HINNEFELD: It's what I'm
6 figuring out now.

7 CHAIR GRIFFON: Well, I left it as
8 an SC&A action, but if you have more
9 information, obviously --

10 MR. HINNEFELD: If I have more, I
11 will get it to you.

12 CHAIR GRIFFON: Okay. Get it to
13 all of us, and Doug especially, yes.

14 The next one I have is 137.4.
15 This says, TIB-0017 does not deal with the
16 radionuclide location question or the
17 contamination question, and NIOSH will
18 consider this as an overarching issue.

19 My last note says -- I'm trying to
20 remember. Does anybody else have any notes on
21 this one?

22 MEMBER MUNN: No. I'm wondering

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1 why we still had it. Because unless there is
2 a response from SC&A to NIOSH's original
3 comment --

4 MR. HINNEFELD: Well, we have had
5 discussions. I don't know if this is part of
6 it. We have had discussions before about,
7 what about undetected skin contaminations?

8 MEMBER MUNN: Yes.

9 CHAIR GRIFFON: That is what the
10 bottom says there of your May 30th, 2008
11 response. It was an evaluation of potential
12 dose to the skin from undetected skin
13 contamination.

14 MEMBER MUNN: Right.

15 MR. FARVER: This says it has been
16 properly addressed in OTIB-0017.

17 CHAIR GRIFFON: What is OTIB-0017?
18 I don't recall.

19 MR. HINNEFELD: Shelter.

20 CHAIR GRIFFON: Shelter?

21 MR. FARVER: But that doesn't
22 address the radionuclide location or

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1 contamination.

2 MR. HINNEFELD: Well, I think
3 there are a couple. I think the two issues,
4 you know, radionuclide location I think
5 relates to sort of the directional -- it is
6 how you account for directional dependency of
7 a film badge to a beta source, you know, I
8 think.

9 Then the skin contamination
10 question is what about unidentified at the
11 time skin contaminant issues?

12 CHAIR GRIFFON: I think that is
13 what we were talking about.

14 MR. HINNEFELD: Yes. My position
15 on that has been I don't know what to do with
16 that. You know, once you start speculating
17 that there was a skin contamination, why
18 didn't you do a response? Why did you stop
19 with one contamination? Why did you stop with
20 a particular period of time?

21 Unless you decide as a policy for
22 certain sites you are going to say the policy

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1 is that we are going to say that the skin
2 contaminations are this -- otherwise, there is
3 no other way that you can answer it.

4 MR. FARVER: True.

5 MR. HINNEFELD: So that is kind of
6 where we left it. In subsequent discussions,
7 I don't know that there's a lot of stomach in
8 OCAS for trying to pursue a policy like that.

9 I think there will have to be other people
10 involved. If we are going to go down the
11 route, it would have to be maybe a discussion
12 strictly of that, and maybe some different
13 people.

14 CHAIR GRIFFON: And I'm not sure
15 when we say location question if we meant
16 location like physical location of the plant
17 or the badges.

18 MR. HINNEFELD: Oh, I don't know.

19 CHAIR GRIFFON: Because it might
20 be just -- I mean, I was thinking, when I read
21 it, I was thinking maybe such a policy for
22 certain areas or processes, you know, people

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1 that worked in certain buildings because it
2 was known.

3 MR. HINNEFELD: Well, like
4 Fernald. Say there was contamination around
5 Fernald.

6 CHAIR GRIFFON: Right.

7 MR. HINNEFELD: A lot of the Oak
8 Ridge operation plants that were essentially
9 uranium plants were treated like chemical
10 plants.

11 CHAIR GRIFFON: Right.

12 MR. HINNEFELD: So if some of that
13 stuff was laying around, so what?

14 CHAIR GRIFFON: Yes.

15 MR. HINNEFELD: So there are sort
16 of a handful of sites that you could say this
17 might be an issue at.

18 CHAIR GRIFFON: Right.

19 MR. HINNEFELD: But I think it is
20 that same question.

21 CHAIR GRIFFON: Yes, yes.

22 MR. HINNEFELD: I think Kathy may

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1 be more familiar with this exact finding.

2 MS. BEHLING: Yes, this is a
3 Paducah case. I believe when we refer to
4 location we are referring to buildings because
5 we specify certain buildings in here where
6 this employee worked, and they were doing
7 tech-99 recovery operations there. That is
8 why we were questioning.

9 CHAIR GRIFFON: Yes, that's what I
10 thought when I read location, yes.

11 MR. HINNEFELD: In fact, our
12 original response does say an evaluation of
13 potential skin dose from an undetected skin
14 contaminant. Well, it says it should be
15 included.

16 CHAIR GRIFFON: Yes.

17 MR. HINNEFELD: Now we were
18 planning to do that.

19 MEMBER MUNN: Could we put
20 workplace location in there if that is, in
21 fact, the case?

22 CHAIR GRIFFON: Yes, I will

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1 clarify that, yes.

2 MEMBER MUNN: Because when I read
3 that, to me, deal with the radionuclide
4 location question, I instantly think is it on
5 the shoulder of the clothing or is it in the
6 eye?

7 CHAIR GRIFFON: Right. No, I can
8 see how that was not clear.

9 MEMBER MUNN: In the nails or
10 what?

11 CHAIR GRIFFON: Yes. I would put
12 workplace location in there.

13 MS. BEHLING: This is another area
14 I have written down that NIOSH might write a
15 white paper. I don't know why.

16 CHAIR GRIFFON: That is why this
17 came up. It says, overarching issues.

18 MS. BEHLING: Okay.

19 CHAIR GRIFFON: Which I guess is
20 where we left it, Stu that you said you knew
21 it was kind of a policy question and you would
22 have to go back and think about it more.

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1 MR. HINNEFELD: Yes, and I would
2 have to say that I think we will have to give
3 this to some of the key people in the room
4 about how to proceed with this, if need be.

5 I'm certain I don't know how --

6 CHAIR GRIFFON: Yes.

7 MR. HINNEFELD: I wouldn't want to
8 make that call for OCAS.

9 MEMBER MUNN: Well, have we
10 captured the fact that this issue is being
11 addressed in overarching issues?

12 MR. HINNEFELD: Well, see, I'm not
13 even sure it is on that. You know, there is
14 sort of a list of overarching issues. I'm not
15 sure if this is on there yet.

16 CHAIR GRIFFON: Yes, I am not sure
17 this made the list yet.

18 MR. HINNEFELD: Once it is there,
19 you feel like you have got to do something,
20 and I am not so sure right now what to do. If
21 you are talking about unidentified skin
22 contamination, I don't know -- I mean most of

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1 the things on the overarching issues, we feel
2 like there is a technical resolution. There
3 is a way to resolve those kinds of cases. I
4 don't know of a technical resolution to this.

5 CHAIR GRIFFON: Yes. I know you
6 are thinking of it globally, but I think this
7 came up specifically because of something in
8 this case where the guy was involved in the
9 tech-99 recovery.

10 MR. HINNEFELD: Tech-99, yes.

11 CHAIR GRIFFON: I don't know what
12 the CATI said, but maybe it was something that
13 he alluded to that they weren't monitored or
14 whatever, you know. So maybe it is not -- I
15 don't know. I can see the reluctance to make
16 some kind of global policy about it, but maybe
17 it is more of a work site-specific issue, you
18 know.

19 MEMBER MUNN: Or maybe even on an
20 individual case.

21 CHAIR GRIFFON: Right, right.

22 MEMBER MUNN: Certainly, how many

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1 cases are you going to get where you have both
2 the technetium and thorium question about
3 potential contamination on skin and clothing?

4 So how are we going to resolve it?

5 CHAIR GRIFFON: Well, NIOSH is
6 going to follow up on it.

7 MR. HINNEFELD: We just need to
8 sort it out. I need to start asking what did
9 the finding actually say.

10 CHAIR GRIFFON: Right.

11 MR. HINNEFELD: You know, what is
12 the basis of it? And what can we do about it?

13 If it is strictly a matter of tech -- I mean
14 if it is a question of the person was in a
15 radiation field, a beta radiation field that
16 included some contribution of tech, and their
17 badge was calibrated for the thorium-234 beta,
18 which is a much higher energy, what are you
19 going to do about that? How do you deal with
20 that? Which is some sort of assessment of the
21 badge because probably it is going to be less
22 responsive to the tech dose, in effect. It is

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1 going to be hard to see a tech.

2 MEMBER MUNN: Yes.

3 CHAIR GRIFFON: Right.

4 MR. HINNEFELD: How do you deal
5 with that? If it is an issue, if it is a
6 contamination issue, a skin contamination
7 issue, that is a different issue.

8 CHAIR GRIFFON: A different issue.

9 MEMBER MUNN: It is.

10 MR. HINNEFELD: So I just need to
11 go back and see what it is.

12 MR. FARVER: As we move on to the
13 next, there's a couple more findings in this
14 case that I was going to talk about now.

15 CHAIR GRIFFON: Yes, on 137.6 --

16 MR. FARVER: So he was putting on
17 roofs.

18 MEMBER MUNN: This specific case
19 you're talking about now?

20 MR. FARVER: He was the
21 groundskeeper, maintenance, and mechanic.
22 Apparently, he had many jobs over the years.

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1 Cutting cells, mowing, sandblasting, wetting
2 down roofs, and grinding them up, putting new
3 roofs in old buildings. So this guy was all
4 around, which makes it even more difficult.

5 CHAIR GRIFFON: So he was a
6 roofer? I'm sorry --

7 MR. FARVER: Well, he was in
8 everything --

9 CHAIR GRIFFON: We had a little
10 sidebar going.

11 MR. HINNEFELD: It sounds like he
12 was a laborer because laborers are just doing
13 everything. What did you say most of the
14 stuff he was doing, you said --

15 MR. FARVER: Everything from
16 mowing to cutting out cells, to wetting down
17 roofs, grinding up the roofing when they put
18 on new roofs.

19 CHAIR GRIFFON: Cutting out what?

20 MR. FARVER: Cutting out cells.

21 CHAIR GRIFFON: Cells?

22 MR. FARVER: Yes.

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1 CHAIR GRIFFON: Okay. Like cells
2 on the gaseous diffusion. Yes, that is
3 important for technetium, yes.

4 I mean that's where they had a lot
5 of the technetium was in the seals and stuff
6 with the -

7 MR. HINNEFELD: And it was in a
8 cascade at different places.

9 CHAIR GRIFFON: But the seals, it
10 tended to collect there. We know that issue.

11 MR. HINNEFELD: They would get
12 into it and didn't know they were into it
13 sometimes.

14 CHAIR GRIFFON: Right, right.

15 MR. ELLIOTT: And the seal would
16 pull out, and there would be those, what they
17 call, puffs and great smoke.

18 CHAIR GRIFFON: Yes, yes.

19 MR. ELLIOTT: Just a puff.

20 MR. FARVER: This is more of a
21 unique case.

22 CHAIR GRIFFON: Right.

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1 So when you look at it, Stu,
2 definitely think about is that a case-specific
3 thing or maybe it's not a global issue here
4 per se.

5 So does it still apply on 137.6?

6 MR. HINNEFELD: I think it is the
7 same thing. Our action was, we have to look
8 at a program.

9 CHAIR GRIFFON: I mean this is for
10 the internal dose, the appropriateness of
11 solubility.

12 MEMBER MUNN: Well, yes, and they
13 responded about solubility.

14 CHAIR GRIFFON: Oh, you did?

15 MEMBER MUNN: They determined on
16 April 15th about evaluating potential types
17 and choosing which results result in the
18 highest internal dose.

19 CHAIR GRIFFON: Is that 4/15?
20 Okay, yes.

21 Did you see this response, Doug?

22 MR. FARVER: I saw the response.

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1 I didn't see -- well, I don't know if there
2 were any files for this one that were sent. I
3 don't believe so. So it is going to have to
4 go back to the original data. So I will look
5 at this one.

6 CHAIR GRIFFON: The IMBA runs
7 weren't in -- were there any IMBA runs or
8 maybe it wasn't done?

9 MEMBER MUNN: In another case,
10 137.

11 CHAIR GRIFFON: Yes, 137.6.

12 MR. HINNEFELD: Well, I mean,
13 chances are it would include the IMBA run that
14 was used, but not necessarily another -- I
15 will decide if it will be able to run.

16 CHAIR GRIFFON: Right, right.

17 MR. FARVER: I mean that is kind
18 of what it says in the finding, that there was
19 no real basis for selecting F. It really
20 wasn't shown in the records why F was
21 selected.

22 CHAIR GRIFFON: So, SC&A, you are

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1 going to review this?

2 MR. FARVER: I am going to have to
3 look it up.

4 MR. HINNEFELD: Is this systemic
5 or does the cancer --

6 CHAIR GRIFFON: We are just
7 talking beta dose.

8 MR. HINNEFELD: But that really
9 only enters into uranium.

10 MR. FARVER: Skin.

11 MR. HINNEFELD: It's skin?

12 MR. FARVER: Skin.

13 CHAIR GRIFFON: Yes.

14 MR. HINNEFELD: So internal would
15 have to be systemic. It would have to be
16 systemic. You get a skin dose from internal.
17 So there's usually not a lot of difference.

18 CHAIR GRIFFON: Right.

19 MR. HINNEFELD: If it's systemic,
20 it's systemic, and it's a certain amount.

21 MR. FARVER: No, this question
22 just went back to how do you know you are

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1 selecting the most claimant-favorable
2 solubility class if it is not shown? We have
3 had that discussion before.

4 MR. HINNEFELD: Yes, but, I mean,
5 if you are doing a dose, if it is based on
6 bioassays, you know, the urine data -- I don't
7 know what it is based on, but if it's based on
8 urine data --

9 CHAIR GRIFFON: It's probably
10 based on urine data at Paducah, I would think,
11 right?

12 MR. HINNEFELD: I would think so.
13 A particular set of bioassay data, urine data
14 translates into a particular systemic data.
15 It is systemic uranium, which is going to be
16 distributed in the same manner. So there's
17 really not much difference, given the amount
18 systemic is going to be and what it is.

19 MR. FARVER: I'll go back and look
20 at that.

21 MR. HINNEFELD: Okay.

22 MR. FARVER: It's probably --

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1 CHAIR GRIFFON: The original
2 question really was relative really to showing
3 the different --

4 MR. FARVER: Between F and M.

5 CHAIR GRIFFON: -- different runs,
6 right. I mean, yes, this is kind of how it
7 came up.

8 MR. FARVER: I'll just go back and
9 then run type N and compare the doses.

10 CHAIR GRIFFON: Okay, yes. Yes.
11 That's fine.

12 All right, 137.7, internal dose
13 from fission products.

14 MEMBER MUNN: It also has an April
15 15th.

16 CHAIR GRIFFON: Okay.

17 MR. FARVER: I do have a question
18 about this one. The question is, I couldn't
19 find anything in the Y-12 technical basis
20 about their mobile counter. Is it in the Y-12
21 technical basis or is it in the -- I didn't
22 find it in the Paducah one, either.

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1 CHAIR GRIFFON: Well, yes, I don't
2 know where it is, but it's --

3 MR. FARVER: I'm sure it is
4 somewhere.

5 CHAIR GRIFFON: Yes, they
6 definitely had the unit go to Paducah, yes.

7 MR. HINNEFELD: Well, I would bet
8 that this isn't our site profile. I would bet
9 this was the Y-12 technical basis document. I
10 would bet that's what that is.

11 MR. FARVER: Okay. So is there
12 any documentation of the Y-12 counter?

13 MR. HINNEFELD: We should have. I
14 mean it should be referred to.

15 CHAIR GRIFFON: Yes.

16 MR. HINNEFELD: We can look. I
17 can try to find if it is in SRDB and what the
18 reference number is.

19 MR. FARVER: No, I just couldn't
20 find it. I mean I'm not saying that your
21 response is wrong. It is just that I couldn't
22 find it.

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1 MR. HINNEFELD: I am just guessing
2 here that the Y-12 internal dose, that the
3 technical basis document we referred to in our
4 April 15th response is not the section of the
5 site profile because DOE sites wrote things
6 called technical basis documents.

7 MR. FARVER: Sure.

8 CHAIR GRIFFON: Oh, I see. Yes,
9 yes.

10 MR. HINNEFELD: And I suspect
11 that's what it is talking about because that
12 is where Y-12 would be likely to talk about
13 that.

14 MR. FARVER: But is it talked
15 about in any of the NIOSH documentation that
16 has been written?

17 MR. HINNEFELD: That we have
18 written?

19 MR. FARVER: Yes. The mobile
20 counter.

21 MR. HINNEFELD: We wouldn't have a
22 TIB or anything about it. I don't know that

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1 we have written anything about it. But we
2 should have, I would think we would have
3 copies of those documents that we're referring
4 to. That would then allow us to -- it should
5 be in SRDB with a reference number that we
6 could look at it and see it.

7 MR. FARVER: Okay.

8 MR. HINNEFELD: I'm relatively
9 familiar with it. I mean I just printed out
10 this whole, big, long list of radionuclides.

11 MR. FARVER: So when you do a DR
12 then, does that show up in the references?

13 MR. HINNEFELD: Well, do you mean
14 would the --

15 MR. FARVER: Would the normal
16 counter reference show up in a DR report?

17 MR. HINNEFELD: Probably not.
18 Probably not.

19 MR. FARVER: Okay. I am just
20 wondering how you would get back to that
21 reference.

22 MR. ELLIOTT: Would it be in the

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1 dose information we've got?

2 MR. HINNEFELD: Well, I mean the
3 printout. It is in the printout of the data
4 reported, the in vivo. It could be in the DOE
5 response, in part of the file. It could be.
6 It wouldn't necessarily be. It depends on how
7 the site is providing it.

8 The in vivo counter, the global in
9 vivo counter printed out, quote, activity for
10 all these different radionuclides based on a
11 region of interest. No matter what the counts
12 were in there, it printed it out with no
13 indication of what the background is, you
14 know, what the background of the body and the
15 chamber is, none of that.

16 So it just would print out an
17 activity. Some sites may have recorded all of
18 those into a person's dose record. Some may
19 have just said, well, we only have uranium
20 here, or only uranium and thorium here. I
21 will only record those numbers into the
22 record.

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1 CHAIR GRIFFON: The ones of
2 interest, right.

3 MR. HINNEFELD: Some sites may
4 have taken that printout from the in vivo
5 counter and put it in the employees' files, in
6 which case you would have a whole long list of
7 them.

8 So it is hard. You know, each
9 site's recordkeeping would indicate --

10 MR. FARVER: Well, that's what I
11 was asking. Is it discussed in the Paducah
12 technical basis, what they did?

13 MR. HINNEFELD: Now when you say,
14 technical basis, do you mean --

15 MR. FARVER: No, a site profile.

16 MR. HINNEFELD: I don't know. I
17 don't know.

18 MR. FARVER: Okay. I didn't see
19 it. That is why it would be nice to have a
20 little blurb in there saying they used a Y-12
21 mobile counter.

22 MR. HINNEFELD: And here's a

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1 reference to find some more information.

2 MR. FARVER: Yes, the reference
3 would be to the site profile.

4 MR. HINNEFELD: Yes.

5 MR. FARVER: I was just wondering
6 how you could trace it back, and that would be
7 the way.

8 MR. HINNEFELD: I don't know. I
9 can find out. I think, certainly, it would be
10 worthwhile. I would think that the technical
11 basis -- I'm sorry -- the site profile would
12 say in vivo counting during these years was
13 performed with the Y-12 in vivo counter. I
14 would think that it would say that.

15 Now whether or not it would then
16 include a reference that would give the
17 technical description of its capabilities, I
18 don't know if it would say that or not. I
19 would think that the site profile would have
20 said that. That's the way it works.

21 CHAIR GRIFFON: Well, maybe you
22 can talk offline about the reference, get back

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1 to Doug on the reference, and you can follow
2 up on this finding.

3 MR. HINNEFELD: Yes.

4 CHAIR GRIFFON: Or the NIOSH
5 response.

6 MR. HINNEFELD: And I can take it
7 back to us, look, how can we improve the trail
8 for technical information on the in vivo --

9 CHAIR GRIFFON: And that may be
10 the only outcome of this, but I guess, at
11 least for now, let Doug see the reference.

12 MS. BEHLING: Now we're still on
13 finding 137.7?

14 CHAIR GRIFFON: Yes.

15 MS. BEHLING: Okay. I thought in
16 this individual's file, the DOE file, we had
17 both in vivo and in vitro monitoring for
18 fission products. That is why we were
19 questioning because, typically, when the
20 individual is monitored, there is some missed
21 dose calculated. In this case, it was both in
22 vivo and in vitro. So I think they would have

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1 gone out also.

2 MR. HINNEFELD: Really?

3 MR. FARVER: It says that there
4 was both in vivo and in vitro monitoring.

5 MEMBER MUNN: Yes, that's what it
6 says in the response from NIOSH.

7 MS. BEHLING: I mean, if we are
8 going to be consistent with what we do in
9 other cases, generally, even if it's less than
10 the MDA value, usually, because he was
11 monitored, they will still calculate a missed
12 dose.

13 I don't know how relevant it is
14 going to be, you know, dose to this case, but
15 it is more, I thought, something more of a
16 procedural issue.

17 CHAIR GRIFFON: Yes. So that is
18 sort of a second with respect to this, right?

19 MR. FARVER: Actually, that is
20 part of the primary aspect.

21 CHAIR GRIFFON: That's a primary
22 aspect, yes.

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1 MR. FARVER: I think the secondary
2 one is if you want to talk about the Y-12
3 global counter, you know, if you want to
4 discuss all that somewhere, about them only
5 recording certain nuclides. I would suggest
6 it go in a little blurb in a site profile.

7 CHAIR GRIFFON: The 4/15 response,
8 does that address the urinalysis question?
9 No?

10 MR. HINNEFELD: I don't think so.

11 CHAIR GRIFFON: No? So maybe
12 there's like a dual follow-up here. I mean,
13 is this the same question that we had before,
14 that there are results that appear to be
15 positive results that weren't assessed as far
16 as dose, even though they might be fairly
17 small?

18 MR. HINNEFELD: Well, in vitro
19 bioassays, whether it was positive or not,
20 when you do in vitro for fission products,
21 then that argues against the conclusion that
22 the cesium in vivo data is only there because

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1 the mobile counter spit it out.

2 CHAIR GRIFFON: Right. Yes, yes.

3 So I will put a NIOSH follow-up on
4 that as well.

5 Okay, we're getting there. 137.8.

6 MEMBER MUNN: An April 15th
7 response.

8 CHAIR GRIFFON: There is an April
9 15th response?

10 MEMBER MUNN: Yes.

11 CHAIR GRIFFON: Okay.

12 MEMBER MUNN: A significant one.

13 CHAIR GRIFFON: Did you look at
14 this response, Doug?

15 MR. FARVER: Yes. The concern is
16 that the CATI report, the individual indicates
17 he had to wet down the roofs of the buildings
18 and grind them up, put new roofing on the
19 buildings, and when he did this job, his face
20 and arms got burned because the dust got into
21 the pores of his skin.

22 So the concern here is low-energy

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1 beta radiation since we have a skin cancer
2 case.

3 So what do you do about it?
4 Should there be some calculations done? It is
5 probably not going to be caught up in the
6 routine dosimetry a person is wearing, which
7 was a statement that was made in the DR
8 report.

9 Dosing would have been received,
10 and these incidents would have been reported
11 in the dosimetry records. Probably not.

12 CHAIR GRIFFON: Do we have any
13 information on the location of the cancer, the
14 skin cancer? Was it on his face?

15 MS. BEHLING: On his face.

16 CHAIR GRIFFON: Yes, okay. So
17 it's definitely relevant.

18 MR. FARVER: I read the response,
19 and they talk about cutting out cells and
20 things. But, still, maybe it does need to be
21 assessed somehow, and then that comes back to,
22 okay, how do you do that?

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1 CHAIR GRIFFON: Right.

2 MEMBER MUNN: Well, the NIOSH
3 response then says, a direct and unmonitored
4 skin contamination dose could be concluded
5 appropriate since no specific information is
6 available that exactly meet the criteria.
7 Whether it is performed work or was it
8 involved in an incident? With the technetium
9 recovery areas, during the appropriate time
10 period, the work cutting up the cells was
11 discussed in the report, but it was assumed
12 that the employee's monitoring was adequate.

13 The report would have been
14 stronger if it had contained an evaluation of
15 the potential for unmonitored skin
16 contamination as it relates to the work and
17 the cell maintenance work.

18 MR. FARVER: Well, I mean, if he
19 was doing roofing, were there any Tc releases
20 he would have gotten on the roof?

21 MEMBER MUNN: As I was
22 interpreting what I just read, it says there

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1 is no information that indicates that there
2 was any kind of technetium incident recovery
3 during the time periods that were appropriate.

4 It says so.

5 MR. HINNEFELD: Okay. Is the
6 basis for this the statement in the CATI that
7 he was removing this --?

8 MR. FARVER: Yes, that's what
9 triggered it.

10 CHAIR GRIFFON: Yes.

11 MR. HINNEFELD: And then he
12 replaced the roof and the skin on his face was
13 burned because that got on his skin?

14 MR. FARVER: That's what triggered
15 it.

16 MR. HINNEFELD: We're not really
17 talking about radiation burn to the skin, are
18 we?

19 MR. FARVER: Possibly not.

20 MR. HINNEFELD: I mean you're
21 talking about over 100 rads or something for
22 that.

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1 MEMBER MUNN: Yes. Yes, I don't
2 think so.

3 MR. HINNEFELD: I mean there are
4 chemicals or something like that that could
5 have been introduced, I would think.

6 CHAIR GRIFFON: Right, but he may
7 be correct about being contaminated in his
8 face.

9 MR. HINNEFELD: It would seem to
10 me that a mixture of stuff --

11 MR. ELLIOTT: It would burn
12 exposed skin.

13 MEMBER MUNN: Yes.

14 MR. HINNEFELD: It would seem to
15 me that there is probably a better chance for
16 getting into that than --

17 MR. FARVER: I know, but how do
18 you handle it when a person makes statements
19 like this? I mean I know the roofs at K-25
20 were contaminated when they went to replace
21 them.

22 CHAIR GRIFFON: Yes. Yes, sure.

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1 MR. HINNEFELD: Yes, Fernald's
2 were, too.

3 MR. FARVER: So these people have
4 worked around that.

5 CHAIR GRIFFON: Yes, I mean, aside
6 from the burn part, I think that the person's
7 account of getting a lot of dust in his face
8 is probably accurate. Now did it result in a
9 significant skin dose? Who knows?

10 MR. HINNEFELD: I don't know where
11 we go. I don't know where we go.

12 CHAIR GRIFFON: Yes.

13 MR. HINNEFELD: Again, to me, this
14 sounds a lot like not being undetected skin
15 contaminants, which we were talking about
16 earlier -- I don't know where you go with it.

17 CHAIR GRIFFON: Right, right.

18 MS. BEHLING: And I guess it does
19 go back to Finding 137.4, where we previously
20 detected. But we also pulled a few sentences
21 out of the Technical Basis Document that
22 specifically say some skin contamination

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1 events on tech-99 could have occurred without
2 being detected at the time.

3 Now I don't know what time frame
4 we are talking about here. So I would have to
5 go back. But we do have some quotes in here
6 from the TBD that also support our finding.

7 CHAIR GRIFFON: Well, this is the
8 whole issue of tech-99 really wasn't
9 recognized at the site for a while, and then
10 it became a hot issue after a certain time
11 period.

12 I don't know if Larry knows
13 exactly the date and stuff, but that might be
14 the time period referenced there in your
15 quote.

16 MEMBER MUNN: Yes.

17 CHAIR GRIFFON: But this could
18 have happened after that time period. So I
19 don't know.

20 MEMBER MUNN: The whole business
21 of saying something could have happened
22 somewhere at some time is far, far too

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1 amorphous to try to attach a, yes, in that
2 case, therefore, statement.

3 CHAIR GRIFFON: But it sounds like
4 he is being fairly specific. I think we need
5 to go back and say, if this was in 1990 on the
6 roof, at that time period, you might be able
7 to say measures were in place that would make
8 this highly unlikely.

9 MR. HINNEFELD: The best you could
10 hope for would be to have a time frame when,
11 for instance, once it was there, but before it
12 was particularly recognized in the work --

13 CHAIR GRIFFON: Exactly.

14 MR. HINNEFELD: If you had the
15 time frame and if you were to have something
16 based on some experience and some indications
17 that this is a reasonable event --

18 CHAIR GRIFFON: Right.

19 MR. HINNEFELD: -- to me that is
20 the best you would hope for. But, again, that
21 is policy; there is no technical argument to
22 be made.

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1 CHAIR GRIFFON: No, right. I
2 know. I know.

3 MEMBER MUNN: No.

4 MR. ELLIOTT: What's the PoC?

5 MR. FARVER: Forty-three percent.

6 Oh, no, let's see if I'm on the right one.

7 CHAIR GRIFFON: I mean the
8 exposure, well, who knows, but the CATI says
9 in the face, and the cancer was on the face.

10 MS. BEHLING: Forty-three percent.

11 You're correct, Doug.

12 MR. FARVER: Forty-three percent.

13 MR. ELLIOTT: So could you come at
14 it with a calculation trying to figure out how
15 much technetium exposure you would have to
16 have --

17 MR. HINNEFELD: Well, you might be
18 able to do that, I mean if you go through it
19 case by case. But, then, what do you get when
20 you get to a 49.4 percent one?

21 MR. FARVER: The employment period
22 is 1974 through present.

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1 MEMBER MUNN: So the key really
2 and truly is --

3 CHAIR GRIFFON: 1974, it might
4 have been there, yes.

5 MEMBER MUNN: What was the time?

6 MR. ELLIOTT: When he did this
7 activity.

8 CHAIR GRIFFON: When he did the
9 roofing stuff.

10 MEMBER MUNN: If it occurred much
11 later, then --

12 CHAIR GRIFFON: It is unlikely.

13 MEMBER MUNN: -- it is unlikely.

14 MR. HINNEFELD: To have that much
15 of a concentration.

16 MEMBER MUNN: Yes.

17 MR. HINNEFELD: The roofing
18 doesn't seem like that good of a candidate to
19 have the concentrate of tech.

20 CHAIR GRIFFON: At that time,
21 right.

22 MR. HINNEFELD: There might be

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1 some tech along with uranium, but I would
2 think you would have mainly uranium, and that
3 the concentrate of tech exposure would be more
4 likely to occur in cascade work. That would
5 be my take.

6 CHAIR GRIFFON: The cutting of the
7 cells. Yes.

8 MR. HINNEFELD: I don't know. To
9 me, it is a fun, philosophical discussion, but
10 I don't know where you end up.

11 MR. FARVER: And I am not familiar
12 with the buildings at the Paducah, C-420, and
13 C-410.

14 MR. HINNEFELD: No, I don't know
15 those.

16 CHAIR GRIFFON: Is he saying C-410
17 and 20?

18 MR. FARVER: Yes, the C buildings.
19 Those are process buildings?

20 CHAIR GRIFFON: Some of the
21 nastiest buildings there, but I don't know
22 whether they had tech in them as much.

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1 MEMBER MUNN: Well, 340, 412, 410,
2 600.

3 CHAIR GRIFFON: Yes, 410 and 420
4 were the fluorination buildings.

5 MR. HINNEFELD: Oh, no.

6 CHAIR GRIFFON: Yes.

7 MR. HINNEFELD: I had a bad
8 experience with steam plant ash which came out
9 of fluorine. A major portion of my life for a
10 couple of years.

11 CHAIR GRIFFON: Oh, the ash from
12 Paducah, yes. Yes, you know that stuff, yes.

13 MR. FARVER: Even though the dose
14 reconstructor may understand some of these
15 concerns, there is not a lot of records or no
16 notes to follow. In other words, if he could
17 look at that and say, well, his employment
18 period during this time of the roofing was
19 such-and-such a date, and therefore, we do
20 consider it --

21 CHAIR GRIFFON: Yes.

22 MR. FARVER: -- then all of this

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1 would go away.

2 CHAIR GRIFFON: Yes. For me, I
3 think this deserves a little more examination
4 of the specifics of the guy's job, time
5 period, et cetera, before we just dismiss it.
6 That's my opinion.

7 MR. FARVER: Yes.

8 CHAIR GRIFFON: I'm curious, I
9 don't have the case in front of me, but if
10 there were any incident reports at all in his
11 file. I know this is all out of the CATI, but
12 was there any actual, you know, reported
13 incidents or whatever? Probably not, but I'm
14 just curious.

15 MR. FARVER: Gee, I don't know. I
16 don't have the files here.

17 CHAIR GRIFFON: Anyway, so we have
18 a NIOSH response.

19 Is this a NIOSH follow-up or kind
20 of both follow-up?

21 MR. HINNEFELD: Well, I am
22 including it in what we're -- we have some

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1 other things to look into on 137.

2 CHAIR GRIFFON: Right.

3 MR. HINNEFELD: I'm including it
4 in that.

5 CHAIR GRIFFON: Yes.

6 MR. HINNEFELD: If there is more
7 we can do here, particularly in terms of the
8 timing, potential timing, of the exposure.

9 CHAIR GRIFFON: The timing of
10 these exposures was relevant to radiological
11 policies, yes, seriously.

12 MR. HINNEFELD: I don't know where
13 else to go with it.

14 CHAIR GRIFFON: All right. Yes, I
15 know. I agree.

16 MR. FARVER: Yes, I think this
17 goes back to the inadvertent skin exposure.
18 What do you do? And how do you determine it?

19 MR. HINNEFELD: Yes.

20 MR. FARVER: It just almost seems
21 like, when they make specific statements in
22 there like that, that somehow it should be

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1 addressed --

2 CHAIR GRIFFON: Yes.

3 MR. FARVER: -- because they are
4 going to know what statements they made.

5 MR. HINNEFELD: To that extent,
6 that's a good point. I made this statement in
7 the CATI, and they ignored it, if you don't
8 say anything back to them.

9 MR. FARVER: Yes.

10 CHAIR GRIFFON: Okay, let's see, I
11 am down to 144.2. We're almost at the end of
12 this matrix, Larry. I'm sorry.

13 Was there a 4/15 response on
14 144.2?

15 MEMBER MUNN: No. I was just
16 looking at 143.1.

17 CHAIR GRIFFON: Oh, is there
18 something I missed?

19 MEMBER MUNN: Let's see. What
20 follow-up?

21 CHAIR GRIFFON: 143.1?

22 MR. HINNEFELD: 143.1, Mark's

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1 version and our comments were not written on
2 it, is that it is closed because it falls in
3 the SEC class.

4 CHAIR GRIFFON: Yes.

5 MEMBER MUNN: Thank you.

6 CHAIR GRIFFON: Right, NIOSH
7 agreed, but then there was no further action
8 because it falls in the SEC class anyway.
9 Okay.

10 So now I'm up to 144. -- What was
11 it? -- 144.2.

12 MEMBER MUNN: Apparently, in .1 we
13 said SC&A is going to review the whole case.

14 CHAIR GRIFFON: Oh, did we?

15 MEMBER MUNN: I thought.

16 CHAIR GRIFFON: Well, I have, on
17 3/12, for 144.1, SC&A reviewed the NIOSH
18 calculations and agreed that it was done in
19 accordance with TIB-0017. That was 144.1.

20 MEMBER MUNN: Yes.

21 CHAIR GRIFFON: So I left that as
22 no further action. Is that right?

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1 MR. FARVER: Yes.

2 CHAIR GRIFFON: Yes.

3 MEMBER MUNN: Yes, there is an
4 April 15th response on 144.2.

5 CHAIR GRIFFON: Right. Okay,
6 there is. So 144.2, there was an April
7 response.

8 Doug, did you look into that?

9 MR. FARVER: Yes.

10 CHAIR GRIFFON: Okay.

11 MR. FARVER: Yes. Apparently,
12 they needed to modify or change their tables.

13 It has to do with the maximum doses. Relies
14 on the ambient dose, and Table 4-225 -- the
15 maximum for each row and the maximum for the
16 table was used.

17 So I went back and looked, and
18 then they said they are going to correct it in
19 the next revision to the TBD. So that is
20 fine.

21 CHAIR GRIFFON: So SC&A is in
22 agreement?

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1 MR. FARVER: Yes.

2 CHAIR GRIFFON: So that one is
3 closed. Okay.

4 And that's it, right?

5 MR. HINNEFELD: Yes.

6 MEMBER MUNN: Yes.

7 CHAIR GRIFFON: All right, we made
8 it. Everybody looks so chipper.

9 (Laughter.)

10 Well, let's see, I wanted to move
11 up on the agenda this topic because Larry has
12 been patient all day waiting for us, and
13 really here for probably one primary topic of
14 interest, which is the discussion of the
15 Summary Findings in our First Hundred Cases
16 Report, and what further we can do with this
17 Summary Findings, what the Board can say about
18 those Summary Findings.

19 So I thought we would at least
20 have an initial discussion here on that, and
21 I'm not sure we are going to finish today with
22 a recommendation to bring back to the Board,

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1 but at least have some initial dialogue on
2 that.

3 I actually would love to have John
4 on the phone for this, too, but I don't think
5 he has joined us yet.

6 Anyway, I would actually like,
7 Larry, if you wouldn't mind, sort of
8 refreshing us from what we said at the Board
9 meeting. I guess the action that came back to
10 the Subcommittee was we put this report out on
11 the first hundred cases and we made some -- I
12 guess the next challenge was, you know, well,
13 what exactly does this mean relative to the
14 NIOSH program? Have they been making the
15 grade, basically? Is this an excellent job,
16 good job, fair job?

17 Go ahead.

18 MR. KATZ: My memory of this, but
19 it could be faulty because I didn't look at
20 this part. I have looked at some of the
21 transcript, but I didn't come across this when
22 I was.

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1 My memory was that the remaining
2 issue which was kicked off at the Board
3 meeting with a presentation from Stu, I think,
4 was really to just go a little bit further
5 into what changes have been implemented by
6 OCAS in response to those issues. Stu gave a
7 big summary to that.

8 MR. ELLIOTT: A short summary.

9 MR. KATZ: A short summary to
10 that. A broad summary to that, I meant.

11 Then the thing was just to go into
12 a little more detail, to have a good
13 understanding for what positive progress has
14 been in improving sort of procedures or
15 quality assurance, depending on what the
16 finding was in relation to that work of the
17 Board.

18 But that is my rough memory of it.

19 CHAIR GRIFFON: Yes. I think one
20 thing was what changes have been made as a
21 result of the DR review process?

22 But the one that keeps coming back

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1 to my mind is the quality assurance question.

2 I know this came up in our discussion at the
3 Board meeting, and there are some of these
4 findings that end up being, yes, we missed
5 this, but it would have resulted in 1 millirem
6 or something, or 2 millirem, and would have
7 had hardly any effect on the PoC.

8 So, at the end of the day, we got
9 the decision right, and that is what we are
10 worried about, is getting the decision right.

11 Then I'm talking about -- and that
12 is why I initially included that sort of case-
13 specific and then program-wide ranking of my
14 findings or our findings. Then the question
15 becomes, if you have a bunch of these quality
16 -- sort of under the topic of quality control
17 findings, what does that mean. Is it
18 important? What's acceptable?

19 Stu and I were talking before the
20 meeting started, you know, what level is
21 acceptable in the program. I guess, from my
22 standpoint, it gets a little more nuanced than

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1 that even, in that I can see a certain level
2 of acceptance for the sort of overestimating
3 cases or underestimating cases as opposed to
4 the best estimate cases. Then your QC grade
5 might have to be a little higher. You know,
6 the level of errors should be much smaller on
7 those kinds of cases.

8 MR. ELLIOTT: If you do a thorough
9 job.

10 CHAIR GRIFFON: Yes, yes. I guess
11 that is what we want to sort of wrestle with,
12 is, how do we evaluate that? From the Board's
13 standpoint, how do we evaluate that? How has
14 NIOSH performed in that regard?

15 I don't know if we are ready to
16 make sort of some conclusion on that, but at
17 least just to think about how we evaluate it,
18 so we have some sort of metrics outlined as we
19 go forward.

20 In addition to what Ted said, I
21 think that is an important thing, is what has
22 been changed as a result of this process. I

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1 think we also have to discuss -- we've got, as
2 Larry, I think you pointed out in our
3 discussion of this, you've got a boatload of
4 findings, and somebody comes and says, look at
5 all these findings, but a lot of them are
6 almost the same finding repeated many times.
7 The argument can be made of kind of a minute
8 finding, you know, not very significant.

9 MEMBER MUNN: That is one of the
10 reasons I think that we were very careful in
11 our early establishment of what criteria were
12 going to be included in our quality assurance
13 process, and making sure that there was a
14 differentiation made between low-impact,
15 medium-impact, and large-impact, which SC&A
16 has used consistently throughout this entire
17 review process, and which we have paid very
18 little attention to in this forum here.

19 We have taken each finding
20 individually and given each one almost the
21 kind of individual scrutiny that we would have
22 anticipated from high-impact findings at all

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1 times.

2 So we have debated the issues
3 surrounding low-level issues quite strongly,
4 and how we, therefore, would quantify these
5 issues of impact. It is very difficult for me
6 to try to get my hands around. I can't
7 imagine, absent a significant data-capture
8 program of some sort that compares the types
9 of findings and the level of findings, I don't
10 know how we would quantify it.

11 I think we have to make any
12 assessment that we make in thoroughly positive
13 terms.

14 CHAIR GRIFFON: I know one thing.
15 I mean, you are correct about our
16 subcommittee meetings in general. We don't
17 get into those. We debate each finding on
18 almost equal merit, or whatever.

19 But our roll-up reports do attempt
20 to include --

21 MEMBER MUNN: Yes. They
22 identify --

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1 CHAIR GRIFFON: I mean, some of
2 the criteria was, for instance, if something
3 was in -- I'm trying to think -- like
4 TIB-0004. That was one of the ones that came
5 up on several cases, and it also potentially
6 affected a large number of claimants. So then
7 it was viewed as a higher-level program-wide
8 finding because it could have impact on more
9 than just that case potentially.

10 MEMBER MUNN: Yes.

11 CHAIR GRIFFON: Then we had some
12 that were like site-wide, so they were medium
13 or high because they could have affected a lot
14 more people, that sort of thing.

15 Then there's the whole quality
16 question. A lot of them on the case level
17 were fairly low-level findings, but then when
18 you see a pattern, then you question whether
19 it had a higher ranking as far as program-
20 wide. Was it more significant than we view on
21 an individual case?

22 I mean the questions that I had

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1 had about the peer-reviewed stuff, I think it
2 was at the last meeting when Doug was
3 discussing one of the cases, and we were kind
4 of going through the findings one by one and
5 saying, well, NIOSH agrees, but it wouldn't
6 have affected anything on this case; no
7 further action.

8 And we went down that way like two
9 or three times, and Doug says, I don't want to
10 make a big issue out of any one of these
11 findings. However, collectively, I'm a little
12 concerned that peer review didn't get any of
13 these, or it's not documented in the case
14 file, anyway.

15 That may be another question of
16 just how some of these things may not require
17 a dose reconstruction to be reassessed by the
18 original dose reconstructor, but a peer review
19 might note that there is a discrepancy;
20 however, no need to reevaluate because it is a
21 minimal discrepancy or, you know, it would not
22 affect the outcome.

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1 But those weren't included in the
2 case files. So that was some of the ones we
3 have talked about, and I will let Larry talk
4 to some of this now.

5 MR. ELLIOTT: Okay. There are
6 several things I would like to say.

7 First of all, let me start by
8 saying that the Advisory Board and its
9 process, and this Subcommittee's efforts, I
10 think demonstrate a very thorough review, very
11 thorough.

12 So, with that in mind, though, I
13 would offer that we perhaps come from
14 different places on what the acceptable level
15 of quality is in a dose reconstruction. I
16 think our, he starts from a place that says we
17 need to make sure that we get our work done to
18 assure that the answer given to the claimant
19 by DOL is the correct answer.

20 So we also start from the position
21 that perfect is the enemy of good. If we
22 strive to be perfect in all aspects of a dose

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1 reconstruction report for each individual, we
2 certainly wouldn't have been able to get
3 25,700 done in the amount of time that we have
4 done them.

5 Nevertheless, Stu's review of
6 changes that we have adopted or incorporated,
7 based upon this Subcommittee's review of dose
8 reconstructions, was very general, as we
9 talked -- heard about a moment ago. On the
10 outside, it probably seemed -- and I had a
11 couple of people ask me about this -- doesn't
12 seem like we have made many changes at all.
13 Is it that NIOSH OCAS doesn't see any real
14 value from the Subcommittee's reviews, and I'm
15 saying, no, that's not the case.

16 Again, we start from different
17 places when we approach this. So that has
18 helped others understand.

19 But my ears pick up and I start
20 listening very attentively and red flags go
21 off in my mind when I hear things about
22 quality control and, yes, Doug's point is well

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1 made. If we see all of these little bitty
2 deficiencies, nits, it leads one to think,
3 well, if they're not worried about that, what
4 are they worried about? How good is the work
5 that they are doing?

6 Again, I often say we are trying
7 to make sure we get the right answer as
8 quickly as we can. And I have said at Board
9 meetings that there are warts -- I think
10 that's one of the terms and euphemisms I have
11 used, analogies I have used -- there's warts
12 on these things. They are not perfect.

13 They are perfect in a sense that
14 we are trying to get the right answer, but
15 they are not perfect in the sense that we have
16 correctly perhaps addressed everything we
17 should have.

18 What I find most disconcerting is
19 when we hear something in the CATI and we
20 don't speak to it in a DR. Anything that goes
21 to responding to claimants' concerns,
22 clarifying for a claimant, and providing a

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1 better understanding of how we treated their
2 information is bothersome to me. Because
3 whether or not we got the answer right or
4 wrong, we owe that person, we are obliged to
5 treat that person, that set of claimants, as
6 compassionately and as fully and thoroughly as
7 we can.

8 So I don't want to see us
9 disregard or not speak to certain items that
10 they bring up. I think that is when my
11 stomach starts turning, and I start worrying
12 about how well we are reporting out our work
13 in dose reconstruction reports.

14 I am not going to preach here, but
15 I just want everybody to understand that we
16 kind of come at this from a different
17 perspective. You do a very thorough review,
18 and I appreciate that. We are looking very
19 hard at what comes out of these reviews.

20 It probably doesn't appear that we
21 are making changes, but when and where we feel
22 that it is appropriate for a program concern

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1 or an individual situation, we take action. I
2 guess we would be hard-pressed to keep that
3 documented and put it in front of you at all
4 times.

5 But I had hoped what would come
6 out of a discussion about this among the Work
7 Group members and the Board itself is, if we
8 can identify certain deficiencies or
9 categories of deficiencies that you view as
10 critical, and we can talk about those, and if
11 we come to agreement and consensus that they
12 are critical, then those are the things we
13 should make sure we do tackle, make sure that
14 we do modify our reports and our behavior.

15 Maybe we can come out of that with
16 also an agreement on, well, what isn't so
17 critical. That is the other side of the coin,
18 you know. That may save SC&A some time. It
19 may save the Subcommittee some time.

20 Because, at some point, I would
21 hope that you would all agree that, if we have
22 heard the same issue over and over and over

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1 again, and we are not taking action, you
2 should beat us up. Or, if we hear a spot
3 issue here and a spot issue there, maybe we
4 don't need to spend our time on those, and we
5 can agree about that, and not have to hear
6 those come out again.

7 But that's all I've got to say. I
8 just felt that I wanted to speak to that that
9 way at this meeting.

10 I don't know if Stu has other
11 thoughts beyond that, but we struggle all the
12 time with, where are we at on our quality
13 assurance, quality control, and what is our
14 acceptance criteria.

15 Stu?

16 MR. HINNEFELD: Nothing more,
17 other than that, I guess the key question to
18 me is, what is an acceptable dose
19 reconstruction. We even talk about what needs
20 are a little bit, Mark and Larry and I.

21 In a QA program, where there was a
22 QA program that I was familiar with, there

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1 will be a disposition of a deficiency that is
2 accept as is. In that case, though, the
3 deficiency is noted. There is a record
4 generated of it, and you decide that this
5 isn't serious enough that I'm going to make
6 this guy rework the part or anything like
7 that. We are just going to accept it as is.
8 I guess that is QC because of the inspection
9 element.

10 MR. ELLIOTT: Deviation.

11 MR. HINNEFELD: Yes.

12 MR. ELLIOTT: It's a deviation
13 report.

14 MR. HINNEFELD: Yes, a deviation
15 corrective action report, is what we called
16 it.

17 So, if we were to build something
18 like that, we could then note when we observe
19 these deviations and say that this one is not
20 going to matter, so we are going to improve
21 it. That, then, provides a record for the
22 reviewers to see that, okay, that was noted

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1 and it was accepted as is. Of course, you've
2 got to be pretty confident when you accept as
3 is that it really is okay.

4 But when you do that, there is
5 more work to the review. Whether the peer
6 reviewer does it or whether the HP reviewer
7 does it, that adds time to the process.
8 Because instead of clicking approved, you are
9 going to click accept as is, and then you are
10 going to describe what the deviation was.

11 CHAIR GRIFFON: I see what you are
12 saying with accept as is. The "accept as" is
13 - I was thinking of approved, but I was
14 thinking like three categories, like approve,
15 don't approve with comment, or approve with
16 comment.

17 MR. HINNEFELD: Yes.

18 CHAIR GRIFFON: And a third
19 category is like --

20 MR. HINNEFELD: That's what I was
21 saying.

22 CHAIR GRIFFON: -- approve with

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1 comment, and that means we still accept it,
2 but --

3 MR. HINNEFELD: We accept it, but
4 we did note that there was a deviation.

5 CHAIR GRIFFON: But we noted that
6 there was a discrepancy or deviation, yes.

7 MR. HINNEFELD: Yes.

8 CHAIR GRIFFON: Yes. I think that
9 would be very useful.

10 MR. ELLIOTT: And if you see that
11 and there is a common theme over time, then
12 you've got a bigger problem.

13 CHAIR GRIFFON: Right. Then you
14 might say, wait a second, let's --

15 MR. HINNEFELD: So far, what you
16 do in that program is then you trend --

17 CHAIR GRIFFON: Right, and then
18 you evaluate it. This is happening a lot.
19 Why is this happening all the time?

20 MR. HINNEFELD: Why is this
21 happening a lot?

22 CHAIR GRIFFON: Yes.

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1 MR. HINNEFELD: I mean that's
2 something we could build again. What you are
3 doing, then, is you are spending your money
4 doing that, spending your time. Money is not
5 so important. The choke point here is --

6 CHAIR GRIFFON: Time is money.

7 MR. HINNEFELD: You know me. Why
8 don't we just take it away from the
9 contractor?

10 (Laughter.)

11 MR. ELLIOTT: To have more
12 production, we've got to find money to give to
13 the contractor.

14 MR. HINNEFELD: Production is the
15 question --

16 MR. ELLIOTT: Production is the
17 question.

18 MR. HINNEFELD: -- because the
19 more effort you spend on that, whatever effort
20 you spend on that, that's less effort to spend
21 on production. So, if it takes me an hour
22 instead of 50 minutes on average to review and

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1 approve or comment on a dose reconstruction,
2 then that's a 20 percent reduction in my
3 ability to get dose reconstructions put
4 together.

5 So I just made those numbers up.
6 That may be pessimistic because,
7 theoretically, you won't be commenting on
8 every one. You still will be, on the majority
9 of them, theoretically, you will still be
10 approving. You know, just hit the approved
11 button.

12 It could be, though, that if a
13 dose reconstructor is told, your review is
14 expected to identify any deviation, that may,
15 in fact, require more time than saying, okay,
16 here's the case; the doses look like they are
17 coming out about what I would expect. I may
18 not reproduce all these numbers. There may be
19 a mathematical error, a mistake in there, or
20 something in there that gets by, but it is
21 approximately right.

22 So it may, in fact, require more

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1 time in the review. It may be more time than
2 just writing a deviation.

3 MR. ELLIOTT: I've been asked, is
4 there a bright line here? Is there a blue
5 line that we could say, a finding, if it is
6 beyond the line, that's really, really
7 problematic? That's the issue. If it is on
8 the other side of the line, it's not.

9 The only thing I can answer that
10 question is, if we got the decision wrong, if
11 our work yielded a false negative, I'm
12 concerned. That's the bright, blue line for
13 us.

14 So all the many dose
15 reconstruction reviews that have been done,
16 I've been asked how many flipped because of
17 the Board's review process, and I don't know.
18 What? There's been one or two?

19 MR. HINNEFELD: Well, it is hard
20 to judge.

21 MR. ELLIOTT: It's hard to judge.

22 MR. HINNEFELD: I mean there are

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1 PERs that have been done, I think, in part,
2 because of the Board's review process.

3 MR. ELLIOTT: Right, yes.

4 MR. HINNEFELD: A specific case,
5 can I think of a specific case; because of a
6 deficiency in that case, it changed? I can't
7 think of any, but I won't swear there weren't
8 any.

9 But there are things coming out of
10 Board review that would lead to a PER when, in
11 fact, cases may have -- so it's not exactly an
12 easy question to answer.

13 CHAIR GRIFFON: Right, but what
14 about, going back to these criteria, I mean I
15 like this discussion, but, currently, do you
16 do, just what I was mentioning before, because
17 I could see it does add time? And I agree,
18 obviously, you are concerned about that with
19 the production.

20 Can you see a system where you
21 would peer review, or maybe you do it
22 currently? Like if you have cases, well, your

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1 low-level PoC cancers, maybe you don't need
2 the level of scrutiny where they are looking
3 for any deficiency in those cases.

4 So, if you have 40 to 60 -- I
5 don't know what the range is --

6 MR. HINNEFELD: Yes, I mean there
7 aren't many at 45.

8 CHAIR GRIFFON: -- but near the 50
9 range, then you require a more --

10 MR. ELLIOTT: Or certain sites or
11 certain time frames maybe, you could even
12 speak to that as well.

13 CHAIR GRIFFON: Yes.

14 MR. HINNEFELD: At 45, we require
15 best estimate dose reconstruction.

16 CHAIR GRIFFON: Right.

17 MR. HINNEFELD: We could, in fact,
18 you know, in that range, 45 to 52, or
19 whatever --

20 CHAIR GRIFFON: Require a more
21 rigorous --

22 MR. HINNEFELD: I mean you could

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1 base it on --

2 CHAIR GRIFFON: Put the three
3 criteria, yes, yes.

4 MR. HINNEFELD: I forget what the
5 difference is at 45 percent.

6 CHAIR GRIFFON: I'm just thinking
7 out loud now.

8 MR. HINNEFELD: At 40 percent PoC,
9 you need half again as much risk --

10 CHAIR GRIFFON: Yes.

11 MR. HINNEFELD: -- to get to 50 as
12 it took to get to 40. You're only two-thirds
13 of the way there when you get to 40 percent.

14 CHAIR GRIFFON: Right, right.

15 MR. HINNEFELD: So 45, I think you
16 are still --

17 MR. ELLIOTT: But if we say it is
18 a best estimate, to me, that says we had
19 better make sure we've got everything attended
20 to.

21 CHAIR GRIFFON: Best estimate,
22 best peer review, yes, yes.

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1 MR. HINNEFELD: And the guys do
2 take more time on a 45-to-52 case. Nobody
3 wants to pull them up because they take so
4 long to do.

5 CHAIR GRIFFON: Right. Yes, maybe
6 implementing this kind of change also on top
7 of that would reinforce that, that you are to
8 document discrepancies, even if they don't
9 impact the case.

10 MR. ELLIOTT: I have also thought
11 of looking at our return rate --

12 CHAIR GRIFFON: That's the other
13 question I had, yes.

14 MR. ELLIOTT: -- and checking out
15 what dose reconstruction drafts we return to
16 ORAU, or whoever does them, and says they
17 didn't meet -- and what are we catching there.
18 You guys don't see this.

19 CHAIR GRIFFON: Right.

20 MR. ELLIOTT: You only see the
21 final, finished version.

22 CHAIR GRIFFON: Right.

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1 MR. ELLIOTT: But I can tell you
2 that we track that. We have a special graphic
3 that we see every week, maybe it's every
4 month, how many ORAU sends us and how many we
5 have accepted, how many we have returned back
6 and said it didn't meet the standard.

7 CHAIR GRIFFON: Oh, you're talking
8 internally return?

9 MR. ELLIOTT: Yes.

10 CHAIR GRIFFON: Not from DOL?

11 MR. ELLIOTT: No, no.

12 CHAIR GRIFFON: Yes, internally
13 returned, yes.

14 MR. ELLIOTT: I'm talking about,
15 what did the peer reviewers catch --

16 CHAIR GRIFFON: Right.

17 MR. ELLIOTT: -- and say, no, this
18 isn't good enough; you've got to come back at
19 us with a revision based upon these comments
20 we're making.

21 I haven't done that, but I am just
22 thinking that might be another way to look at

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1 things that we have caught versus what we let
2 get through --

3 CHAIR GRIFFON: Yes.

4 MR. ELLIOTT: -- and compare that
5 with what you guys are identifying in your
6 review of the findings.

7 MEMBER MUNN: Well, that is
8 another one of those painful ways of
9 quantifying things, though.

10 MR. ELLIOTT: I don't know if it
11 would be informative or not. I don't know if
12 you've got any thoughts on that, Stu, or not,
13 but another way of looking at it.

14 CHAIR GRIFFON: And if you have
15 the ability to look at common threads for
16 that, too, it might be interesting.

17 MR. ELLIOTT: Yes.

18 CHAIR GRIFFON: Yes, yes.

19 MR. FARVER: Let me make sure I
20 have this straight. We have the dose
21 reconstructors. They write the report.

22 MR. ELLIOTT: Yes.

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1 MR. FARVER: Then it goes to
2 someone in ORAU for a review?

3 MR. HINNEFELD: For a peer review,
4 yes.

5 MR. FARVER: And then it goes to
6 someone in NIOSH. Is that called a peer
7 review?

8 MR. HINNEFELD: It's called the HP
9 review.

10 MR. ELLIOTT: Technical peer
11 review.

12 MR. HINNEFELD: Well, the
13 terminology we use is HP reviewer. There's a
14 dose reconstructor that personally prepares
15 it. There's a peer reviewer, and then that's
16 an ORAU person.

17 CHAIR GRIFFON: ORAU, right.

18 MR. HINNEFELD: And there's an HP
19 reviewer.

20 MR. FARVER: Okay. So the HP
21 reviewer follows different criteria than the
22 peer reviewer --

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1 MR. HINNEFELD: Yes.

2 MR. FARVER: -- because the peer
3 review is documented in Procedure 59.

4 MR. HINNEFELD: Yes, an ORAU peer
5 review. We have a procedure.

6 MR. FARVER: It's the ORAU team.

7 MR. ELLIOTT: Yes.

8 MR. HINNEFELD: Yes.

9 MR. FARVER: Okay.

10 MR. HINNEFELD: Well, that's
11 right, it is a team.

12 MR. FARVER: Yes, and it's got a
13 very specific checklist?

14 MR. HINNEFELD: Yes, yes.

15 MR. FARVER: Is there a similar
16 one for the HP review?

17 MR. HINNEFELD: Yes.

18 MR. ELLIOTT: Is it
19 proceduralized? It's a checklist.

20 MR. HINNEFELD: Yes, HP review is
21 proceduralized and it does have a checklist as
22 well.

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1 MR. ELLIOTT: There's an OCAS
2 procedure, but I don't know the number.

3 MR. HINNEFELD: I can find it for
4 you.

5 MR. FARVER: But I look at this
6 checklist, and I bring this up periodically,
7 but one of the first questions under internal
8 dose, were all positive bioassay samples
9 considered. Yes, No, N/A.

10 Well, we had that one finding
11 where the whole-body counts --

12 MR. ELLIOTT: Weren't considered.

13 MR. FARVER: -- weren't
14 considered. Someone should have checked no.
15 How does that make it through, and then are
16 those numbers being tracked?

17 And you guys can find other
18 examples. I know in the past we have had the
19 role-of-absorption type because we have put it
20 into the report. Even though it may have been
21 correct in the calculations, which one are
22 they checking?

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1 MR. ELLIOTT: They should have got
2 that as one --

3 MR. FARVER: And there are some
4 very specific things that should be caught. I
5 mean it is a very thorough checklist, but I
6 don't know if it is being tracked or if it is
7 being used.

8 We had the one that had the
9 missing dose one year, for 1984, whatever case
10 it was. There's a whole worksheet in here.
11 It is a worksheet, deep dose, shallow dose,
12 neutron dose, where you enter all the numbers
13 and you tally them up.

14 So I don't understand how we are
15 finding these things. So that is one of my
16 concerns. It appears there's something in
17 place, but things are still getting through.

18 CHAIR GRIFFON: Okay. I mean the
19 other thing, Larry, that I was thinking about
20 was, when we were talking this morning just
21 offline, and sort of thinking about the
22 production and the impact, and how good is

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1 good enough sort of thing, I think you also
2 have to look at the end of this cycle. You
3 sort of alluded to it. Return rate from you
4 to ORAU is one thing; the return rate from DOL
5 to you is another thing. Then I was thinking
6 also like the number of appeals.

7 If it gets to the point where --
8 and I don't know how often this happens, but
9 if there's claimants out there that get their
10 report and are diligent enough, or whatever,
11 to check every little item, and they find
12 mistakes, discrepancies, then that is another
13 cost at the end of cycle sort of, because
14 you've got to come back and deal with that.
15 It creates havoc at that point, I imagine,
16 that it becomes --

17 MR. ELLIOTT: Well, we could
18 provide more detail on this. You have heard
19 me at Board meetings talk about the number of
20 returns from DOL.

21 CHAIR GRIFFON: Yes.

22 MR. ELLIOTT: And primarily, they

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1 are returned to us based upon changes in the
2 claim information.

3 CHAIR GRIFFON: Right.

4 MR. ELLIOTT: The smaller portion
5 is on technical issues. I don't have numbers
6 right off the top of my head right now.

7 CHAIR GRIFFON: No, but I
8 remember.

9 MR. ELLIOTT: But we might be able
10 to provide some more detail in that regard. I
11 don't think we have had a very good success
12 rate at trying to track over the course of
13 history. We may have a better ability now
14 than we did earlier on technical issues.

15 MR. HINNEFELD: I am not sure if
16 Tracey is doing anything or not. She does
17 now, I think, record --

18 MR. ELLIOTT: There were just so
19 few, you know. I mean we could track them by
20 hand, essentially.

21 MR. HINNEFELD: I think she
22 records -- I think they record down there when

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1 we get a return. They just call it a DOL
2 issue or a NIOSH issue.

3 MR. ELLIOTT: Yes, a NIOSH issue.

4 MR. HINNEFELD: So I think she is
5 tracking those now. So I think we might be
6 able to pull that up. For the longest time,
7 we didn't.

8 MR. ELLIOTT: That will give you a
9 snapshot of recent history.

10 MR. HINNEFELD: It would just be
11 the last few months, I think.

12 CHAIR GRIFFON: What about the
13 appeals? I don't know how many. I have no
14 sense of how often that is happening.

15 MR. ELLIOTT: Go ahead.

16 MR. HINNEFELD: Well, we will have
17 to chase that. I mean there are a number of
18 appeals that are remanded.

19 CHAIR GRIFFON: DOL probably
20 tracks that, right?

21 MR. HINNEFELD: Yes. It would
22 come back to us. It would look to us like a

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1 remand.

2 CHAIR GRIFFON: Okay.

3 MR. HINNEFELD: In other words,
4 they remand it back to us. It will look like
5 a remand.

6 MR. ELLIOTT: A technical remand.

7 MR. HINNEFELD: Remands fit into a
8 number of categories. Things are remanded
9 back to us because of new demographics; a new
10 employment that wasn't considered that DOL
11 didn't know about, didn't tell us about; a new
12 cancer. It is remanded if someone gets a
13 cancer after their case is done; you know,
14 he's still alive.

15 MR. ELLIOTT: New survivor.

16 MR. HINNEFELD: Those are
17 remanded.

18 MR. ELLIOTT: New survivor.

19 MR. HINNEFELD: On occasion, a
20 closed case comes back to us, yes. It can.

21 Then there are some cases that are
22 remanded for technical objection. But, again,

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1 those are usually the minority of those kinds
2 of cases.

3 I don't know if we will have a way
4 to find those easily because they all look,
5 whether it is a remand to DOL or something
6 else --

7 MR. ELLIOTT: It depends on what
8 stage the claim has achieved in DOL's
9 adjudication process.

10 MR. HINNEFELD: Yes.

11 MR. ELLIOTT: It could go just to
12 the District Office, and somebody there, the
13 claims examiner, or even if somebody before it
14 gets to the FAB could say this doesn't look
15 right to us. Or the claimant says to the DOL
16 claims examiner, I got my dose reconstruction
17 report. You know, you've got it now, but I
18 don't believe it. There's an issue here.

19 Or, in some cases, they throw up
20 Board review as a reason why it ought to be
21 reworked. In some of those instances, in that
22 aspect, DOL will turn it over to one of their

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1 health physicists, and if the health physicist
2 agrees, then we might get it back that way,
3 from the health physicist.

4 CHAIR GRIFFON: You mean Board
5 review; you mean that we are still reviewing
6 the site or something?

7 MR. HINNEFELD: Yes.

8 CHAIR GRIFFON: Okay, yes.

9 MR. HINNEFELD: If there is an
10 SC&A evaluation of the site profile --

11 CHAIR GRIFFON: Ongoing, right.
12 Right. Yes.

13 MR. HINNEFELD: -- and that's out
14 there, those will come back.

15 But the point I was going to make
16 is that they all look like DOL returns. Our
17 system, everything looks like a DOL return,
18 whether it's found by the District Office --

19 CHAIR GRIFFON: You don't separate
20 it out? Right, right.

21 MR. HINNEFELD: -- whether it is
22 found by the District Office and sent back to

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1 us, whether it is found by the FAB and sent
2 back to us, whether it is adjudicated,
3 reopened, reopened upon appeal and sent back
4 to us, whether it is closed altogether, or I
5 don't mean reopened, but whether it goes to
6 FAB and they get a recommended decision, and
7 then they file an appeal, and then it comes
8 back to us, or whether it is all completely
9 adjudicated with a final decision, and then
10 some new information comes up, like an
11 additional cancer, and it is reopened and then
12 it comes back to us.

13 All those situations, no matter
14 where it is, they all look the same to us.
15 They all are DOL returns.

16 And it may not be too important
17 for the purpose for our discussion here. Our
18 discussion is, what's the burden on technical
19 objections, technical errors, no matter where
20 they are found after we send them out? How
21 much of that comes back?

22 CHAIR GRIFFON: Right, right.

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1 MR. HINNEFELD: That is the
2 question. So it really doesn't matter how far
3 it gets down DOL's route.

4 CHAIR GRIFFON: True, true.
5 That's right.

6 MR. HINNEFELD: So it doesn't
7 really matter.

8 So that is something we can
9 probably find just looking at DOL returns and
10 whether it is a DOL issue or a NIOSH issue,
11 based on what we're tracking. We might be
12 able to find that.

13 CHAIR GRIFFON: Yes, yes. Right,
14 right, right.

15 MR. HINNEFELD: But I thought
16 somebody else raised a pretty good point. I
17 think it was Doug who raised the point in our
18 pre-meeting discussion of this.

19 Part of the effort, the additional
20 effort that goes along with the dose
21 reconstruction that isn't done right, if it
22 has deviations in it, is the effort we spend

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1 here. The effort that SC&A, that it costs
2 SC&A to do, to find those things and write it,
3 and the effort we spend resolving it, we and
4 us on the ORAU team --

5 CHAIR GRIFFON: Right.

6 MR. HINNEFELD: -- writing a
7 resolution. That is a fairly substantial
8 burden, as well.

9 CHAIR GRIFFON: Yes.

10 MR. HINNEFELD: So that all weighs
11 into --

12 MR. ELLIOTT: It is very costly.

13 MR. HINNEFELD: -- the burden that
14 we would avoid by having whatever system in
15 place that indicates we looked at it; we found
16 it.

17 CHAIR GRIFFON: Yes.

18 MR. HINNEFELD: We said okay or we
19 looked at it and we found it and it didn't get
20 through.

21 MR. ELLIOTT: Yes, if we could
22 both start from the same place on what's the

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1 standard of quality, that might minimize a lot
2 of the cost that we are encumbering on this
3 process alone.

4 CHAIR GRIFFON: Right.

5 MR. HINNEFELD: We could allow for
6 even some variations in process here. If we
7 decide, for instance, to go by PoC and say
8 that PoC is going to be determined, we are
9 going to pick a range of PoCs, and in that we
10 are really going to be careful. We are not
11 going to have a deviation that we don't know.
12 We are going to know any deviation.

13 If we find a deviation and it
14 really is, and we are confident it is not
15 going to change anything, we may accept it as
16 is, but we are going to be very careful about
17 that because we only need -- something will
18 need a 10 percent change if you're at 45
19 percent, and you leave out a 10 percent
20 change, or 12 or something. So we are going
21 to be very careful about that.

22 Then, when we get to this

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1 location, and there is a dose, and there is a
2 review of a case that is 40 percent or 38
3 percent, and you find something that is in
4 there, and it maybe gets a different finding
5 kind of category -- you have a Finding
6 Category 1 and a Finding Category 2. Finding
7 Category 1 is where he was in the 45 and you
8 still found a deficiency, and then Category 2
9 is that, well, you found a deficiency, but it
10 was less than 45.

11 So that may be instructive. It
12 may not. I mean I am just talking off the top
13 of my head now. I haven't really thought a
14 lot about this, but I'm not sure if that gets
15 you where you want to be.

16 MR. FARVER: We have been kind of
17 moving in that direction, I believe.

18 MR. HINNEFELD: Yes.

19 MR. FARVER: When the program
20 started, and we were looking at everything and
21 all range of cases, and we are finding things
22 like maybe an error in a workbook calculation,

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1 and that's a very wide thing.

2 As we move on, we are finding
3 smaller things. The big ones are taken care
4 of.

5 We started going from --

6 MR. HINNEFELD: That is good to
7 hear.

8 CHAIR GRIFFON: Yes, yes.

9 MR. FARVER: -- findings to
10 observations.

11 MR. HINNEFELD: Yes, now there are
12 some observations, yes.

13 MR. FARVER: So we are kind of
14 moving toward that direction, and now we are
15 trying to select cases at 40 percent and
16 above, everything.

17 So, I mean, the Subcommittee could
18 lax us up on our criteria or change the
19 criteria, do whatever you wish, because now we
20 are trying to narrow it down and maybe focus
21 on big items. I don't know. But it has just
22 been a progression.

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1 MR. HINNEFELD: Yes.

2 MEMBER MUNN: It has been, and one
3 of the things that was discussed tangentially
4 in the earlier discussion was the repetitive
5 nature of some of the findings.

6 MR. FARVER: Yes.

7 MEMBER MUNN: Certainly, early on
8 in the program, I would say the first half of
9 the program, it was almost to be expected that
10 every new report from our contractor would say
11 something like, you haven't considered this
12 radionuclide. You haven't considered this
13 radionuclide.

14 And we would have this whole list
15 of individual findings for individual
16 radionuclides. It was, essentially, the same
17 finding over and over, but for different
18 individual cases, and in almost all cases it
19 was low-impact, low-impact, low-impact. But,
20 nevertheless, it racked up the findings
21 significantly.

22 I think we have passed the point

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1 where we get that repetitive kind of basic
2 finding again.

3 MR. ELLIOTT: I wonder. I wonder
4 because, I don't know, maybe we are beyond
5 this, but the snapshot in time that you have
6 been looking at in DR reviews has been a
7 concern to me because you are looking at the
8 oldest work that we have done, and you are
9 lagging way behind.

10 MEMBER MUNN: We are.

11 MR. ELLIOTT: If we were to say --

12 CHAIR GRIFFON: But it is in part
13 because we have to look at adjudicated cases.

14 MR. ELLIOTT: Yes, you've got to
15 look at adjudicated cases, but I think that
16 has sped up quite a bit, too. I mean there's
17 a lot more cases in the pool to choose from
18 that are more recent --

19 CHAIR GRIFFON: Right.

20 MR. ELLIOTT: -- is what I mean by
21 that.

22 CHAIR GRIFFON: Right.

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1 MR. ELLIOTT: So maybe that is not
2 something that you want to talk about, but I
3 do think, if this was three years ago, I would
4 have made that comment, or two years ago, I
5 would have made that comment. You are looking
6 back at 2002 or 2003, and you are not really
7 seeing what we are doing in 2006.

8 CHAIR GRIFFON: Right.

9 MR. ELLIOTT: And in 2006, that is
10 a good year to take a look at, if you want to
11 look at a year, because that is the peak year
12 of our production. We have never been able to
13 achieve that capacity again because of our
14 funding issues.

15 CHAIR GRIFFON: Right.

16 MR. ELLIOTT: But in 2006, we put
17 out more than 6,000 dose reconstruction
18 reports in that year. Production was the
19 highest.

20 MEMBER MUNN: Well, what you are
21 saying is particularly pertinent in view of
22 the fact that what we are talking about here

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1 is commenting on the first 100 set of cases.
2 They all were way back at the beginning --

3 CHAIR GRIFFON: They're early, way
4 back, yes. Yes.

5 I mean my sense would be, and
6 there is a problem with the time lag here, but
7 my sense is, if we can come up with -- you
8 know, that recommendation on the QA procedure
9 going forward seems logical to me. I don't
10 know that the Board would -- I think we would
11 make a general recommendation and then say,
12 NIOSH, we are not going to, obviously, not
13 going to be prescriptive in that, but how you
14 view it.

15 But it does make a lot of sense to
16 me to have a sort of tiered approach for the
17 ones closer to 50, doing a more rigorous QA,
18 and having those comments in the file.

19 Then I think the issue,
20 notwithstanding this time-lag problem, the
21 issue goes away in our review, because Doug is
22 not going to have those findings because they

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1 are going to have a comment in there that
2 says, we saw this.

3 MR. ELLIOTT: We saw the findings.

4 CHAIR GRIFFON: Don't bother
5 looking any further. We noted it.

6 Then I would expect SC&A would
7 say, if anything, it's an observation. They
8 missed this, but they noted it, and it is
9 insignificant.

10 I don't even think it rises to an
11 observation at that point, but there is a time
12 lag on that, obviously. Because if you start
13 doing that today or in six months, it is not
14 going to be in the adjudicated cases for a
15 while, right? So that is the only dilemma
16 there.

17 MR. ELLIOTT: Maybe in six months
18 you would start seeing some.

19 CHAIR GRIFFON: Yes, that's the
20 only dilemma there. But, I mean, I think
21 that, from my standpoint anyway, that seems
22 like a logical recommendation from us.

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1 MR. ELLIOTT: Well, I want to work
2 with you all on this.

3 CHAIR GRIFFON: Yes.

4 MR. ELLIOTT: Because I have been
5 fearful of getting a letter that you have sent
6 to the Secretary bounced down to me, and we
7 have to write the response for the Secretary.
8 That's what's going to happen --

9 CHAIR GRIFFON: Right, right.

10 MR. ELLIOTT: -- in case you don't
11 know that.

12 CHAIR GRIFFON: Yes.

13 MR. ELLIOTT: It's not the
14 Secretary who is going to say, oh, well, this
15 is all well and good, and I'll crack the whip
16 and they're going to make changes down there.
17 He is going to kick it down to us, and I'm
18 going to assign it to Stu, and Stu is going to
19 decide what we're going to do.

20 MR. HINNEFELD: I would assign it
21 to somebody else.

22 (Laughter.)

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1 MR. ELLIOTT: Yes, he would assign
2 it to somebody else.

3 (Laughter.)

4 But we have had a recent shift in
5 our assignments. Stu is no longer what was
6 called the Technical Program or the --

7 MR. HINNEFELD: I used to be the
8 Project Officer.

9 MR. ELLIOTT: The Project Officer
10 on ORAU. Grady is now that. I have been
11 talking to Stu about what that -- he's got a
12 void now. So what are we going to fill it
13 with? And I want him to be more involved in
14 developing a better QA program than what we
15 currently have.

16 So that is why I wanted this
17 conversation to occur today, and I really have
18 asked Stu to pick up the reins here and try to
19 figure out, where can we improve. Where can
20 we have a better quality assurance program?
21 How can we bolster our quality control
22 processes to get to where we all want to be?

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1 I don't think we want to do -- I
2 mean we could do this alone. Stu can come up
3 with his own ideas, and we can formulate the
4 program, but it may not be what you guys want
5 to audit. I would rather develop something
6 that is auditable to your satisfaction.

7 CHAIR GRIFFON: I mean I think
8 this was a good start. I don't think we are
9 going to come to any conclusion today.

10 MR. ELLIOTT: No.

11 CHAIR GRIFFON: But I think this
12 is a good start on that. It helped me
13 understand your process internally.

14 MR. FARVER: Yes. Now is your HP
15 review procedure, is that OCAS-PR-007?

16 MR. HINNEFELD: I think so.

17 MR. FARVER: Okay.

18 MR. HINNEFELD: That sounds
19 familiar.

20 MR. ELLIOTT: That sounds right.

21 MR. HINNEFELD: I can tell you for
22 sure.

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1 MR. FARVER: Because that's got a
2 checklist in it.

3 MR. HINNEFELD: Yes.

4 MR. FARVER: But, like the ORAU
5 procedures has nine pages of a checklist; this
6 has just 18 little items, and the columns are
7 adequate, yes or no; corrections, yes or no;
8 and comments. So you could always say, yes,
9 it's adequate and add comments to it.

10 But I'm not sure it is technical
11 enough. It covers necessary things like, are
12 headers and footers correct. I mean,
13 obviously, you want things like that correct
14 on your report. But it doesn't get into the
15 technical detail, like all possible bioassays.

16 MR. ELLIOTT: It doesn't have a
17 box for that?

18 MR. FARVER: No.

19 MR. ELLIOTT: But that is in the
20 ORAU one.

21 MR. FARVER: That is in the ORAU
22 one.

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1 MR. ELLIOTT: Does it have a box
2 there that says, did the CATI interview get
3 attended to fully in the DR.

4 MR. FARVER: It says, CATI
5 information matches DR.

6 MR. ELLIOTT: There you go.

7 MR. FARVER: And that's a box.

8 MR. ELLIOTT: That's a box on
9 our --

10 MR. FARVER: On yours.

11 CHAIR GRIFFON: That's good. Yes,
12 that should be.

13 Did we review those two procedures
14 in the procedures review?

15 MEMBER MUNN: Yes, I think we --

16 CHAIR GRIFFON: I can't remember
17 going through this checklist.

18 MEMBER MUNN: No, we didn't go
19 through the checklist.

20 MR. HINNEFELD: I don't recall.

21 MEMBER MUNN: No.

22 MR. ELLIOTT: You don't think so?

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1 CHAIR GRIFFON: I don't think we
2 did.

3 MEMBER MUNN: I don't believe so.
4 I don't remember going through checklists.

5 CHAIR GRIFFON: I think we
6 probably should, though.

7 MR. ELLIOTT: There's an
8 opportunity there.

9 CHAIR GRIFFON: We probably
10 should, and then we can get together on this.

11 MR. FARVER: Those are very
12 tangible items and very trackable, too.

13 CHAIR GRIFFON: Yes, I'm all about
14 that. Reassign it to someone.

15 (Laughter.)

16 MR. ELLIOTT: Okay, I am going to
17 leave now.

18 CHAIR GRIFFON: Your work is done
19 here.

20 (Laughter.)

21 MEMBER MUNN: Thank you, Larry.
22 You may go.

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1 MR. HINNEFELD: So far, he
2 assigned more work to me than you on this very
3 nice conversation.

4 CHAIR GRIFFON: You know, I think,
5 just to get back, for this Subcommittee, I
6 think I will try to maybe put down some ideas,
7 like a straw man of ideas on this, and
8 circulate it for our next meeting.

9 MEMBER MUNN: That would be
10 appreciated.

11 CHAIR GRIFFON: And then we can go
12 forward with discussions.

13 MR. ELLIOTT: Could you work
14 together to come up --

15 CHAIR GRIFFON: Oh, yes, yes, yes.
16 Definitely.

17 MR. ELLIOTT: Because he may have
18 ideas that you haven't, and you may have ideas
19 he doesn't.

20 CHAIR GRIFFON: That I never
21 thought of, right. Right. Yes.

22 MR. ELLIOTT: Is that okay, Stu?

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1 MR. HINNEFELD: Sure.

2 CHAIR GRIFFON: I'm okay with
3 that. So, okay, I will coordinate with Stu on
4 it and circulate it to all members of the
5 Subcommittee, obviously.

6 The only other things I was going
7 to mention in terms of you were saying the
8 outcome, you mentioned, identify certain
9 deficiencies or categories of deficiencies.
10 Some things that come to mind, and I think
11 this is why I want to write it in this paper,
12 but some things I have been thinking about are
13 just these peer reviews and these checklists;
14 I don't think they are included in the case
15 files. I don't think I have ever seen those.

16 MR. HINNEFELD: No, I don't
17 believe they are.

18 CHAIR GRIFFON: That is something.
19 So this case file to sort of show all your
20 work kind of thing, all the IMBA runs. These
21 are some things that keep coming up with us.
22 I don't think it adds any work to the District

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1 instructor, or maybe it does. I don't know.

2 MR. HINNEFELD: Be careful here.
3 That checklist is completed for only a
4 fraction of the reviews. Isn't that true?

5 MR. ELLIOTT: Which checklist?

6 CHAIR GRIFFON: The peer review.

7 MR. HINNEFELD: Ours.

8 MR. ELLIOTT: Yes, I think Grady
9 has the answer to this. I'm not sure.

10 MR. HINNEFELD: Grady would know
11 it off the top of his head.

12 CHAIR GRIFFON: Maybe you can help
13 me when we talk more of what the --

14 MR. HINNEFELD: The procedure
15 would have to describe it.

16 CHAIR GRIFFON: Yes.

17 MR. HINNEFELD: Now you're
18 supposed to check all those things every time.

19 That is what the procedure says. These are
20 the things you are checking for.

21 But, in terms of actually filling
22 out the form, that's done when the system pops

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1 it up. I think it's 20 percent of the
2 reviews.

3 CHAIR GRIFFON: Oh, I see.

4 MR. ELLIOTT: Something like that.

5 MR. HINNEFELD: The system
6 automatically pops it up.

7 CHAIR GRIFFON: But, either way, I
8 don't think I have ever seen one in --

9 MR. HINNEFELD: No, but it doesn't
10 go in there.

11 MR. ELLIOTT: No, it doesn't go in
12 there.

13 CHAIR GRIFFON: It doesn't go in
14 the case file, yes.

15 MR. ELLIOTT: The review culture,
16 you know, that has developed is so rote.

17 CHAIR GRIFFON: Yes.

18 MR. ELLIOTT: I've worried about
19 that, too, you know, that aspect of it. I
20 would rather it not be so rote, but there is a
21 benefit to that in consistency.

22 CHAIR GRIFFON: Yes.

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1 MR. ELLIOTT: So you want to keep
2 your reviewers attentive and aware and on the
3 ball, so you don't want to get them too mired
4 down into, okay, here's my checklist -- check,
5 check, check, check, check, check.

6 CHAIR GRIFFON: I agree, yes, you
7 don't want to be too -- yes.

8 MR. ELLIOTT: Whether they
9 actually read it or not.

10 CHAIR GRIFFON: Yes.

11 MR. ELLIOTT: So we have struck an
12 agreement with our reviewers where we do a
13 percentage.

14 There is also an electronic QA
15 done aside from that, I think.

16 MR. HINNEFELD: No, I believe
17 that's it.

18 MR. ELLIOTT: That's it?

19 MR. HINNEFELD: That's electronic.

20 MR. ELLIOTT: Oh, that's the
21 electronic?

22 MR. HINNEFELD: Twenty percent of

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1 the cases, the checklist pops up and has to be
2 completed.

3 MR. ELLIOTT: It has to be done by
4 the individual, by the reviewer.

5 MR. HINNEFELD: By the reviewer,
6 by the peer reviewer.

7 CHAIR GRIFFON: Okay.

8 MR. HINNEFELD: I think it is 20
9 percent.

10 MR. ELLIOTT: So, when a reviewer
11 comes up with his screen and he doesn't get
12 this pop-up, he is supposed to touch base on
13 all of those things in the list.

14 MR. HINNEFELD: He is supposed to
15 make sure those things are done.

16 MR. ELLIOTT: Those things are
17 supposed to have been done. He doesn't have
18 to check the box.

19 MR. HINNEFELD: He can always
20 choose to fill it out.

21 MR. ELLIOTT: Yes, he can choose
22 to fill it out.

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1 MR. HINNEFELD: Or she. We do
2 have some she's.

3 MR. ELLIOTT: But there is a
4 percentage. I think you're right, it's 20
5 maybe. I should know this, but that is
6 ballpark, right, I think.

7 CHAIR GRIFFON: But, in any case,
8 that doesn't become part of the record?

9 MR. HINNEFELD: That does not go
10 in the DR record. It's captured. I mean the
11 data is captured somewhere, but it must be a
12 data --

13 MR. ELLIOTT: Grady's got it, I
14 think.

15 MR. HINNEFELD: And then there are
16 some things we can do.

17 MR. FARVER: See, on the one hand,
18 the processing is pretty thorough. On the
19 other hand, we shouldn't be seeing these
20 things.

21 CHAIR GRIFFON: Yes.

22 MR. HINNEFELD: Yes, if the

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1 execution is that good.

2 MR. FARVER: That is what confuses
3 me.

4 CHAIR GRIFFON: Right, right.

5 MR. ELLIOTT: I will say one more
6 thing here and then I'm going to bail.

7 CHAIR GRIFFON: Yes.

8 MR. ELLIOTT: On our side, we have
9 to be concerned about those folks who are
10 assigned to do these reviews. One, we want
11 good performance out of them, but I just don't
12 want to take them to a place where they feel
13 they are getting reviewed on the review.

14 CHAIR GRIFFON: Reviewing the
15 reviewer, right. Right.

16 MR. ELLIOTT: And their
17 performance is affected by that. Do you see
18 where I am going with this? I don't think
19 that would be very helpful in our shop.

20 We have some people -- you know,
21 we have never -- I don't know; they have
22 talked about this. I have thought about this,

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1 but we have never gone in and looked on each
2 individual reviewer, how well are they doing?

3 CHAIR GRIFFON: Right. Right.

4 MR. ELLIOTT: Now ORAU I think can
5 produce maybe some results that way. I don't
6 know.

7 MR. HINNEFELD: Well, it depends
8 on what you are talking about.

9 MR. ELLIOTT: Well, do we have one
10 reviewer that consistently misses? You know,
11 is the CATI reflected in the DR? Is all the
12 internal dose accounted for? Do we have one
13 guy that continually seems to miss that?

14 MR. HINNEFELD: Missing a
15 particular aspect.

16 CHAIR GRIFFON: They are missing a
17 high percentage of that.

18 MR. ELLIOTT: Right. Right.

19 CHAIR GRIFFON: Yes.

20 MR. ELLIOTT: Now I think there is
21 a casual supervisor-to-reviewer approach in
22 that regard. Hey, I keep seeing you miss this

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1 thing.

2 CHAIR GRIFFON: But never a
3 formal --

4 MR. HINNEFELD: Yes, because after
5 the HP review, there is another kind of
6 supervisor's final review of the DR. It's
7 called a tech review. There is no spreadsheet
8 on that. There is no procedure on that. They
9 are just trying to make sure that they are
10 looking for things that are fairly obvious.
11 They are not going to open up all the files
12 from the case and do all that stuff.

13 MR. FARVER: No, that is what the
14 checklist is, more of an overview.

15 MR. HINNEFELD: Yes.

16 MR. FARVER: But the ORAU one
17 seems very technical and should catch a lot of
18 these items.

19 CHAIR GRIFFON: Yes, right.

20 MR. ELLIOTT: That's where we
21 wanted to place the quality, see.

22 MR. FARVER: But I'm not sure that

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1 is being tracked by them.

2 CHAIR GRIFFON: It is, apparently.

3 Didn't you just say that?

4 MR. ELLIOTT: Well, tracked to
5 what degree?

6 MR. FARVER: In the degree that
7 you have all these specific items on nine
8 pages, and can you tell me how many times item
9 6 shows up?

10 MR. HINNEFELD: See, I don't --

11 MR. ELLIOTT: I don't know if we
12 could -- we would have to follow up on that.

13 MR. HINNEFELD: I don't know what
14 they've got over there.

15 MEMBER MUNN: But this is another
16 one of those questions that I was talking
17 about earlier when I said, how much
18 specificity can you get. How much can you
19 really and truly quantify something unless you
20 have a program set up that's tracking it?

21 Then the question arises, is the
22 end result worth the time, effort, and energy

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1 that goes into even setting up the program,
2 much less tracking it all the time. There is
3 a point of diminishing returns.

4 That is the real question, I
5 think, that we, as a Subcommittee, have to
6 struggle with in terms of making our report.
7 How can you give a report that shows that real
8 progress has been made without giving specific
9 numbers? Because we are not tracking our
10 process that way.

11 MR. ELLIOTT: Let's take you back
12 to the standard of quality.

13 MEMBER MUNN: Exactly.

14 MR. ELLIOTT: We are saying to our
15 reviewers, make sure we get the right decision
16 out of DOL with our work. That is what we are
17 most concerned about. We do not want any
18 false negatives.

19 MEMBER MUNN: No.

20 MR. ELLIOTT: That is what we are
21 most concerned about. So we are saying that,
22 and every person hears that. I know they walk

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1 away with a little bit different -- we've got
2 certain reviewers that review x number in a
3 week, and they are at the top of their form.
4 We've got other reviewers that may review five
5 a week and that are doing something else.

6 So, in the back of their mind,
7 they are saying, hey, what we've got to look
8 for is, are we getting the right decision out
9 of this work, not is that "i" dotted. Is that
10 t crossed? Did ORAU take care of that issue
11 effectively in writing it up? Yes, they did,
12 but maybe they didn't and it still gets the
13 right answer.

14 MEMBER MUNN: Yes.

15 CHAIR GRIFFON: I think one thing
16 for me, anyway, and I think for all the
17 Subcommittee, would be to have a better
18 understanding of all these -- like if ORAU
19 already has and is collecting all their peer
20 review data and can simply sort and find out
21 on how many Question 6 was found, if that
22 already exists --

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1 MR. HINNEFELD: I will have to
2 find that out for you.

3 CHAIR GRIFFON: I agree with
4 Wanda. We don't want to ask, like you should
5 be doing this and this and this, and then at
6 the end of the day, it's not even telling us
7 much.

8 MEMBER MUNN: No, it is not really
9 relevant.

10 CHAIR GRIFFON: But if it is
11 already there, that is a different story.

12 MR. HINNEFELD: I don't know.

13 CHAIR GRIFFON: So maybe just a
14 little better --

15 MR. HINNEFELD: Or whether that
16 checklist is like ours. I mean these are the
17 things you are expected to check or to verify.

18 CHAIR GRIFFON: If I could ask
19 you, Stu, to give us --

20 MR. HINNEFELD: I will find out
21 from them.

22 CHAIR GRIFFON: -- a little better

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1 report on what is out there right now?

2 MR. HINNEFELD: Yes.

3 CHAIR GRIFFON: Yes.

4 MR. HINNEFELD: I will find out
5 for you.

6 CHAIR GRIFFON: That would be
7 helpful, yes.

8 MR. FARVER: But, I mean, if we go
9 back to that one case about the positive
10 bioassays, if we go back and pull that
11 checklist, is that box going to be checked yes
12 or no for all bioassays that are concerned?

13 MEMBER MUNN: Yes.

14 MR. FARVER: Okay.

15 MR. ELLIOTT: If it is checked yes
16 and it wasn't, somebody should have written
17 down, it doesn't make any difference.

18 MR. FARVER: And that is a valid
19 remark.

20 MR. ELLIOTT: Yes, it does not
21 make a bit of difference, and I am not going
22 to waste more money and more time trying to

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1 fix this piece, when I could get it out and
2 get an answer in the hands of a claimant.

3 MR. FARVER: I agree.

4 CHAIR GRIFFON: Right.

5 MR. FARVER: That is why your form
6 has the comments section, which how we used it
7 is very good. It is only good if someone is
8 looking at it.

9 CHAIR GRIFFON: Okay. I think
10 that is a path forward. We will get a better
11 description from Stu.

12 MR. ELLIOTT: Well, I would
13 appreciate it if you and Stu will work
14 together.

15 CHAIR GRIFFON: Yes, I will work
16 with Stu on addressing --

17 MR. ELLIOTT: Because I don't want
18 to set up -- I don't want to go off on our own
19 and set up a system that you're not going to
20 find auditable; you're not going to agree with
21 it.

22 CHAIR GRIFFON: Oh, no, no.

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1 MR. ELLIOTT: You're going to
2 audit the system itself and say it's not what
3 we want.

4 CHAIR GRIFFON: Yes, I think we
5 appreciate this input now, instead of waiting.

6 MR. KATZ: So are we going to have
7 a standing item then for the Subcommittee of
8 quality control, as an agenda item?

9 CHAIR GRIFFON: I guess so, yes.

10 MR. KATZ: Just for a little while
11 at least?

12 MR. HINNEFELD: It is sort of like
13 progress on the effort that we are
14 undertaking.

15 CHAIR GRIFFON: Right.

16 MR. KATZ: Yes.

17 MR. ELLIOTT: We may also have to
18 have a conversation about definitions.

19 CHAIR GRIFFON: Right.

20 MR. ELLIOTT: Because some people
21 come at this with a different definition of
22 what quality assurance means and about quality

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1 control.

2 CHAIR GRIFFON: Definitely, yes.

3 MR. ELLIOTT: Having worked in the
4 food industry, quality assurance means the
5 product is developed and you assure its
6 quality. Quality control means the steps
7 along the way: building the Ford is checked.

8 Well, I put the engine in and I put it in
9 right. Now we put the wheels on, and I put it
10 on right. And at the end of the line,
11 somebody says, hey, yes, they're all there.
12 The wheels are on and the engine is in.
13 Quality is assured.

14 MR. HINNEFELD: Mainly right now,
15 we are talking about inspection.

16 MR. ELLIOTT: Yes, we're talking
17 about inspection.

18 MR. HINNEFELD: We're talking
19 about inspection. The inspection is quality
20 control.

21 MR. ELLIOTT: Quality control.

22 MEMBER MUNN: Quality control,

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1 okay. Yes. That is my definition.

2 MR. FARVER: Well, it is kind of
3 like the peer review is the quality control,
4 and the HP review is the --

5 MR. ELLIOTT: It could be
6 considered a quality assurance step, I guess.

7 MR. FARVER: Looking at the entire
8 animal.

9 MR. ELLIOTT: Yes.

10 MR. KATZ: Actually, it depends on
11 the sophistication of your quality assurance
12 or quality program, because quality control,
13 as you become more sophisticated, you do less
14 and less inspection, even with the quality
15 control aspect of it. But quality control,
16 anyway, is a subcomponent of quality
17 assurance, to be sure.

18 MR. HINNEFELD: Yes, it would
19 include the training requirements --

20 MEMBER MUNN: The program's QA.

21 MR. HINNEFELD: -- for each of
22 your positions.

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1 MEMBER MUNN: The action is QC.

2 MR. HINNEFELD: And you include
3 clarity of the procedures and guidance for
4 each of the procedures. We're going to have a
5 problem with that. It's hard to specify clear
6 procedure and clear guidance, given the amount
7 of leeway or the amount of different kinds of
8 conditions you can encounter in dose
9 reconstruction.

10 You can specify clear guidance,
11 but it is not very specific. If you try to be
12 specific --

13 CHAIR GRIFFON: This gets back to
14 the internal dose questions.

15 MR. HINNEFELD: -- it becomes too
16 voluminous.

17 CHAIR GRIFFON: Yes, yes. Yes,
18 and that gets back to the --

19 MR. ELLIOTT: The standard of
20 quality really. I mean, what are you going to
21 do --

22 CHAIR GRIFFON: Well, no, but,

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1 also, I think a lot of us, as a compromise --
2 I'm speaking for myself now, but that's where
3 I get the show-us-the-work thing, because you
4 can't be prescriptive with that kind of stuff,
5 but at least we can see the thought process
6 that the person went through, instead of
7 trying to recreate it afterwards in this room
8 or in that process.

9 Why don't we take a break? After
10 the break, Stu is going to give us a lecture
11 on Deming's theory of quality.

12 (Laughter.)

13 MR. HINNEFELD: A few years ago, I
14 probably could have.

15 CHAIR GRIFFON: I need a break.
16 So let's take a break until 3:30, and maybe we
17 can take another hour and see where we are on
18 the 8th set. That will be about enough to
19 wrap us up for the day.

20 (Whereupon, the above-entitled
21 matter went off the record at 3:22 p.m. and
22 resumed at 3:40 p.m.)

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1 MR. KATZ: This is the Dose
2 Reconstruction Subcommittee.

3 Do we have the Behling's' back
4 yet?

5 MS. BEHLING: Yes, I'm back.

6 MR. KATZ: Great.

7 MR. FARVER: Kathy, did I send you
8 the NIOSH responses for the site profiles, the
9 attachments?

10 CHAIR GRIFFON: For Set Number 8,
11 we're talking about.

12 MS. BEHLING: Yes, I believe you
13 did, Doug, but I've got to look to see,
14 obviously.

15 CHAIR GRIFFON: If you can look
16 for those because we can't seem to find them.
17 That is why we are asking.

18 MS. BEHLING: Okay, let me see.

19 MR. FARVER: I may have sent you
20 the matrix without the responses in it.

21 MR. STIVER: This is John Stiver.
22 I'm online.

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1 MR. FARVER: Yes, John.

2 MR. STIVER: Yes, that last
3 question, I believe there were no NIOSH
4 responses for the attachments.

5 MR. FARVER: Okay. This is a case
6 of having the wrong matrix.

7 CHAIR GRIFFON: That's what I
8 have, yes.

9 All right, let's just start from
10 the matrix in the beginning then. We were
11 thinking about doing those attachments, the
12 site profiles, since Hans was available, and
13 we might want to discuss those. But if we
14 don't have NIOSH responses, I don't think it
15 will be very worthwhile. I would just as soon
16 start from the beginning of the matrix.

17 MR. FARVER: Yes. Well, I found
18 the responses that we sent from NIOSH.

19 CHAIR GRIFFON: Oh, you did find
20 the responses?

21 MR. FARVER: But I don't think I
22 sent them to Hans or John.

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1 CHAIR GRIFFON: Oh, you didn't
2 send them, yes, okay.

3 MR. HINNEFELD: When did I send
4 them?

5 MR. FARVER: Now you're going to
6 ask questions like that.

7 CHAIR GRIFFON: Yes, I don't seem
8 to have them.

9 MR. FARVER: January 26th, 22nd or
10 26th, I believe.

11 So we may not be able to do those
12 this time.

13 MEMBER MUNN: Which group?

14 CHAIR GRIFFON: This is at the
15 very end of the 8th matrix; there are some
16 things called attachments, which are basically
17 the mini site profiles. That's what Doug is
18 referring to.

19 But I would just as soon find out
20 where we are within the matrix, starting from
21 the beginning.

22 Now I'm afraid that I am missing

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1 the most updated matrix, but I left off, in
2 the 3/12 version of the matrix, the last
3 finding I have is 156.1, where we have a
4 resolution down there. Actually, it is 155
5 was the last one I have a resolution for,
6 which was no action necessary. But that was
7 an observation.

8 So then the next one, I don't know
9 if, Stu, in your notes or anything, you show
10 where we left off in this matrix, because I
11 think we made it further.

12 MR. HINNEFELD: The last note I
13 have actually refers to 144.2.

14 CHAIR GRIFFON: Okay. Well, I'm
15 not sure how much headway we are going to make
16 on this until we find our notes.

17 MR. HINNEFELD: Okay, I've got a
18 file; I think it is from you, Mark, on April
19 13th. Is that the one you are working on?

20 CHAIR GRIFFON: Yes, I don't know.
21 Now that could be the updated one. Did you
22 find that? What does that have as far as in

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1 the matrix? What is the tail of the file?

2 MR. HINNEFELD: The file is 8th
3 30-case matrix from Mark April 13, '09.

4 CHAIR GRIFFON: Okay, that might
5 be the one I made my revisions in that's on my
6 other computer at home. Can you email that?

7 MR. HINNEFELD: I can email it to
8 everybody.

9 CHAIR GRIFFON: All right.

10 MR. HINNEFELD: Let's see, we have
11 highlighting into the 150s, through 153 maybe.

12 CHAIR GRIFFON: Oh, is that it?

13 MR. HINNEFELD: Well, I don't
14 know. That is the last highlighting I see.

15 MEMBER MUNN: What was the date
16 again?

17 MR. HINNEFELD: It is April 3rd,
18 '09.

19 MEMBER MUNN: Thank you.

20 CHAIR GRIFFON: If it stops at
21 155 --

22 MR. HINNEFELD: It stops at 155.

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1 It sounds like it is the one you've got.

2 CHAIR GRIFFON: Then it is the
3 same thing. Yes, it is the same thing I have.

4 MR. HINNEFELD: Yes. Okay, so
5 I've got that one.

6 CHAIR GRIFFON: Well, I'm not sure
7 how much -- let's see. We don't have the
8 transcripts from this meeting, do we?

9 MR. KATZ: From?

10 CHAIR GRIFFON: From the last
11 Subcommittee meeting, April?

12 MR. KATZ: We should.

13 CHAIR GRIFFON: I mean, do you
14 have them that we can find out where we left
15 off on this?

16 MR. KATZ: Let me ask Zaida to
17 send them to me.

18 CHAIR GRIFFON: Yes. Alright.

19 MR. KATZ: I might be able to pull
20 them up. Do you want me to look for that?

21 CHAIR GRIFFON: The only reason
22 I'm saying is we could skip the ones that were

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1 covered in the last meeting and then start
2 from there on.

3 MR. KATZ: They should be on the
4 website by now.

5 MEMBER MUNN: They should be on
6 the website.

7 CHAIR GRIFFON: Oh, are they
8 posted already?

9 MR. KATZ: If you had done it,
10 then they should be --

11 CHAIR GRIFFON: I'm the
12 bottleneck, huh?

13 (Laughter.)

14 MR. KATZ: They should be posted.

15 CHAIR GRIFFON: Then they're
16 probably not, no.

17 Let's see who finds them first.

18 MEMBER MUNN: What was the date?

19 CHAIR GRIFFON: April 15.

20 MEMBER MUNN: That's when the
21 meeting was?

22 CHAIR GRIFFON: That's what we

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1 have been saying.

2 MR. KATZ: Is somebody at the
3 website.

4 MEMBER MUNN: Yes, I'm looking.

5 CHAIR GRIFFON: April 16th.

6 MEMBER MUNN: April 16th.

7 CHAIR GRIFFON: Right.

8 Are they still on your desk,
9 Emily?

10 MS. HOWELL: I don't do that. For
11 once, it's not me.

12 (Laughter.)

13 MR. KATZ: We have someone do
14 that, but they don't take long, and the PA
15 part isn't the hang-up.

16 CHAIR GRIFFON: So you think those
17 are with me?

18 MR. KATZ: I think they're with
19 you.

20 CHAIR GRIFFON: Well, Stu probably
21 has the draft ones, right?

22 MR. KATZ: No, no, he wouldn't

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1 have gotten them, but I can get the draft.
2 Let me email Zaida.

3 CHAIR GRIFFON: We don't have a
4 lot of time left today anyway, but at least we
5 can find out where we left off, and I'll look.
6 They have to be on my other computer.

7 MR. FARVER: Yes, we definitely
8 need to get an updated read-only file.

9 MEMBER MUNN: Yes.

10 MS. ADAMS: Ted, what do you need
11 me to send you? Zaida may be on her way.

12 MR. KATZ: Oh, okay, thanks. Hi,
13 Nancy.

14 The transcript from the April 16th
15 Subcommittee, Dose Reconstruction Subcommittee
16 meeting.

17 MS. ADAMS: Okay, I will get it to
18 you.

19 MR. KATZ: Thanks.

20 It just came to me. Did it come
21 to you, Mark?

22 CHAIR GRIFFON: Can you forward

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1 it?

2 MR. KATZ: Yes.

3 CHAIR GRIFFON: Because I can't
4 find it. We've got an app for it.

5 MR. KATZ: I will forward it to
6 you right now.

7 CHAIR GRIFFON: Is this a draft?

8 MR. KATZ: Yes.

9 CHAIR GRIFFON: Okay. I think our
10 app won't show it until it's final.

11 MR. KATZ: Right. I just sent it
12 to you, Stu. I will send it to Mark again,
13 too.

14 MS. ADAMS: This is Nancy. Ted,
15 that is the original transcript.

16 MR. KATZ: That's good. I will
17 send it. It just means that it will have some
18 problems with it, but it is the draft.

19 CHAIR GRIFFON: Did I review that
20 yet, Nancy?

21 MS. ADAMS: I don't know that I
22 have your comments. I would have to go back

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1 into that.

2 MR. KATZ: If it is not on the
3 website, it means you haven't cleared it yet.

4 CHAIR GRIFFON: Right.

5 Did you forward it to me?

6 MR. KATZ: I did.

7 CHAIR GRIFFON: Okay.

8 MR. KATZ: I sent it to you and
9 Stu.

10 CHAIR GRIFFON: All right, I'm
11 waiting.

12 MR. KATZ: It has to go to CDC and
13 then to you.

14 CHAIR GRIFFON: Yes.

15 MR. KATZ: But if you're actually
16 looking in your email at CDC, that will come
17 quicker to that than your -- except I didn't
18 send it to there, right? I sent it to your
19 regular email.

20 CHAIR GRIFFON: It would take me
21 about 10 minutes to log in.

22 MR. KATZ: Stu, have you gotten it

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1 yet?

2 MR. HINNEFELD: I have the
3 transcript. I'm working backwards.

4 MR. KATZ: Okay.

5 CHAIR GRIFFON: It should be at
6 the tail end, and write it down.

7 Oh, there it is, okay.

8 MEMBER MUNN: If you have it, you
9 might search for 155.

10 MR. KATZ: What are we searching
11 for exactly?

12 CHAIR GRIFFON: Well, the last
13 case that we discussed.

14 MR. KATZ: What is a term I can
15 search for?

16 MEMBER MUNN: Tab 155 would be a
17 good place to start.

18 CHAIR GRIFFON: Yes, 155.

19 MR. KATZ: Tab 155?

20 MEMBER MUNN: Tab 155.

21 CHAIR GRIFFON: Yes.

22 MR. KATZ: Okay.

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1 MEMBER MUNN: No luck?

2 CHAIR GRIFFON: I don't see
3 anything else on Bridgeport now. I'm right at
4 the end. Is Bridgeport one of the
5 attachments?

6 MR. HINNEFELD: Yes. We seem to
7 end at talking about Bridgeport.

8 CHAIR GRIFFON: Bridgeport, yes,
9 because I see a comment that I would like to
10 do Harshaw, but I think we are too tired. So
11 Bridgeport was the last. Is that attachment
12 1?

13 MS. BEHLING: Yes, Bridgeport is
14 attachment 1.

15 CHAIR GRIFFON: Okay. And 2 is
16 Harshaw?

17 MS. BEHLING: Yes.

18 MEMBER MUNN: Yes.

19 CHAIR GRIFFON: I mean the only
20 thing from my standpoint; I think it is more
21 important to get the files with the NIOSH
22 responses rather than have a description of

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1 these findings now at the end of today, when
2 the next time we meet I will need another
3 description of them, you know.

4 MR. FARVER: Yes, that's true.

5 CHAIR GRIFFON: So I'm not sure it
6 is worth our energy to go through and have
7 SC&A describe the findings.

8 MR. FARVER: Well, I thought I
9 sent the matrix with the findings in it.

10 CHAIR GRIFFON: Yes.

11 MR. FARVER: And I may have that
12 matrix on the other computer.

13 CHAIR GRIFFON: I know, and I have
14 the same issues, yes.

15 MR. FARVER: So, until I get fully
16 migrated over to this one, we both have
17 problems.

18 CHAIR GRIFFON: All right.

19 MR. FARVER: I did find those
20 responses, and I emailed them to Stu. I don't
21 know if you got them yet.

22 CHAIR GRIFFON: But before we went

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1 to Bridgeport, did you find out if we just
2 left off on 155 or if we got further than
3 that? Because just in terms of preparing for
4 the next meeting, I would like to know where
5 we left off.

6 So we had a preliminary discussion
7 of Bridgeport, which is in this transcript.

8 Did anybody have any luck finding
9 out what tab we left off, what number?

10 MS. BEHLING: The notes on my
11 matrix indicate that we stopped with tab 154.

12 CHAIR GRIFFON: So 154. Okay, so
13 that was it? Then we went to the attachments.

14 I guess we went from there to attachment 1,
15 we decided, probably because Hans was
16 available and we wanted to discuss that. So
17 that makes sense. Okay.

18 Well, I think that's where we will
19 pick it up next time. I mean I'm not sure --
20 Stu, do you agree? I will coordinate with Stu
21 and Doug and get the 6th, 7th, and 8th matrix
22 updated and sent out, and maybe we can talk

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1 about how to post them in read-only format on
2 the O: drive.

3 MR. FARVER: So we are going to
4 start at 154?

5 CHAIR GRIFFON: Well, 156 really
6 because we did 154, and then 155 was just an
7 observation.

8 MEMBER MUNN: No action required.

9 CHAIR GRIFFON: Right. I believe.

10 MEMBER MUNN: Yes. That's what
11 your file says.

12 CHAIR GRIFFON: Yes.

13 MR. FARVER: So we are at 156?

14 CHAIR GRIFFON: Yes, as far as the
15 first run-through. Now that doesn't mean --

16 MR. FARVER: Oh, I understand.

17 CHAIR GRIFFON: Yes, there are
18 other ones that have actions, but as far as
19 making a first cut through.

20 MR. FARVER: Okay, I just want to
21 make a note.

22 MS. BEHLING: Now my matrix shows

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1 155 having several findings.

2 MR. FARVER: Eight.

3 MS. BEHLING: Eight findings, yes.

4 I think there was one observation on 154, and
5 I'm not sure that we actually talked about
6 that one.

7 MR. FARVER: Well, 154 has five
8 findings and one observation.

9 CHAIR GRIFFON: 154.

10 MS. ADAMS: This is Nancy.

11 If it is any help, this is about
12 page 288 in the transcript.

13 CHAIR GRIFFON: Yes. Thank you,
14 Nancy.

15 Tab 154, the observation, I show
16 the one observation, too, Kathy, but it says
17 the case is being reviewed under PER review.

18 MS. BEHLING: That's correct.

19 CHAIR GRIFFON: It doesn't really
20 say anything more.

21 MS. BEHLING: Okay.

22 CHAIR GRIFFON: Yes. Yes.

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1 MS. BEHLING: Right, but I think
2 we will be starting with 155.

3 CHAIR GRIFFON: No, I have a bunch
4 of comments on 155.

5 MS. BEHLING: Oh, okay.

6 CHAIR GRIFFON: I mean, in terms
7 of a first cut through, I have a bunch of
8 either SC&A agrees or -- so I have comments
9 all the way through 155.4. There is an
10 action. NIOSH will consider adding the
11 instruction into the site profile documents.

12 MR. FARVER: I think we agreed
13 with most of them.

14 CHAIR GRIFFON: There's a lot of
15 agreement. NIOSH agrees no further action.
16 SC&A agrees.

17 MS. BEHLING: Okay, yes.

18 CHAIR GRIFFON: So I go up through
19 the end of tab 155.

20 MS. BEHLING: Okay. I think what
21 happened there, I had to cut off early on that
22 day.

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1 CHAIR GRIFFON: Okay.

2 MS. BEHLING: And I may not have
3 listed your last one.

4 CHAIR GRIFFON: I will make a real
5 effort in the next couple of days, because I
6 don't like to let these things sit because I
7 forget where we are at, to get all three of
8 these matrices out: 6, 7, 8, you know, updated
9 and to everyone.

10 I will talk to NIOSH about how to
11 get them on the O: drive in a read-only
12 format, so we don't have this issue of leaving
13 them on other computers and stuff.

14 MEMBER MUNN: As long as what you
15 send me is not read-only.

16 CHAIR GRIFFON: All right. So I
17 don't think we can go much further today,
18 unless anybody else has anything they want to
19 cover.

20 MR. KATZ: Do you want to book
21 another meeting?

22 CHAIR GRIFFON: Yes, we should do

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1 that. Let's book another meeting.

2 MR. HINNEFELD: On the 8th matrix,
3 there are other NIOSH responses that were
4 later, 156 and later. So, on those, SC&A is
5 going to take the opportunity to evaluate what
6 they thought of our response and determine.
7 So we will be ready to discuss on those.

8 MR. FARVER: Yes.

9 MR. HINNEFELD: Then I will look
10 for -- we may have some response. I'm trying
11 to get responses back on the site profile.

12 MR. FARVER: Yes. I've been
13 emailing them to you for Bridgeport.

14 MR. HINNEFELD: Thanks.

15 MR. FARVER: Because it was within
16 a matrix. Harshaw was not in a matrix form.
17 It was in a report form, which will have to be
18 cut and pasted into the matrix.

19 MR. HINNEFELD: We can do that.
20 We can do that.

21 MR. FARVER: I thought we had
22 something from the Huntington plant, but I

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1 can't find it.

2 CHAIR GRIFFON: I do remember --

3 MR. HINNEFELD: I know we have --

4 CHAIR GRIFFON: I know, now that
5 we are discussing it.

6 MR. HINNEFELD: We have a
7 Huntington finding from later on. I know that
8 there are a number of Huntington findings from
9 very early on.

10 CHAIR GRIFFON: Yes.

11 MR. HINNEFELD: And there have
12 been some Huntington findings subsequently. I
13 know that we have revised site profiles since
14 very early on.

15 CHAIR GRIFFON: Right, right.

16 MR. HINNEFELD: And if these cases
17 were all done in accordance with the first
18 site profile, then it could be it resolved. I
19 know we revised that site profile.

20 MR. FARVER: I thought you also
21 provided responses to those files?

22 MR. HINNEFELD: I will, yes.

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1 MR. FARVER: Well, I thought you
2 had previously.

3 MR. HINNEFELD: Oh, okay.

4 MR. FARVER: You may not have,
5 but --

6 MR. HINNEFELD: Okay.

7 CHAIR GRIFFON: Okay, what about
8 dates?

9 MR. KATZ: How about the first
10 week in November? How does that look for
11 people?

12 MEMBER MUNN: Not bad,
13 surprisingly.

14 CHAIR GRIFFON: Are there other
15 meetings lined up in that time period?

16 MR. KATZ: No, there aren't, but
17 the third week of November is a chopping block
18 at this point. Then the end of that week, OGC
19 is not available.

20 The second week in November,
21 Veterans' Day is in the middle of it.

22 MR. HINNEFELD: There is a holiday

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1 in there.

2 CHAIR GRIFFON: How about the 4th
3 or 5th of November? Either of those a
4 preference, Wednesday or Thursday?

5 MR. KATZ: They are both fine for
6 me.

7 CHAIR GRIFFON: Okay.

8 MR. HINNEFELD: Good for me.

9 MR. KATZ: Emily, how do those
10 look to you?

11 MS. HOWELL: They're fine.

12 CHAIR GRIFFON: Any preference one
13 over the other?

14 MR. KATZ: The 3rd is great just
15 because it gives a little latitude for other
16 groups.

17 CHAIR GRIFFON: The 3rd is not
18 good for me.

19 MR. KATZ: Oh, the 3rd is not?
20 Oh, 4th or 5th, you said?

21 CHAIR GRIFFON: The 4th or 5th.

22 MR. KATZ: Oh, then let's --

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1 MR. HINNEFELD: If you have any
2 local elections or anything --

3 MR. KATZ: Oh, you're right, the
4 elections, right. I'm sorry, I missed that.

5 MR. HINNEFELD: I mean it's not a
6 big year, but there might be some local
7 things.

8 MEMBER MUNN: But, nevertheless,
9 there's a lot of stuff going on some places.

10 CHAIR GRIFFON: How about the 5th?
11 Is that okay?

12 MEMBER MUNN: The 5th is fine with
13 me.

14 CHAIR GRIFFON: All right.

15 MR. KATZ: The 5th is fine. Then
16 if another Work Group wants to attach on
17 either side of that, that works out well, too.

18 CHAIR GRIFFON: Yes. Now we don't
19 know about John, but I will email him.

20 MR. KATZ: Right.

21 CHAIR GRIFFON: I would like him
22 to be able to --

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1 MR. KATZ: Yes, it would be good
2 to see him.

3 CHAIR GRIFFON: Yes.

4 MR. KATZ: November 5. Okay.

5 CHAIR GRIFFON: All right,
6 November 5th.

7 MR. KATZ: I'm going to book it
8 for then.

9 CHAIR GRIFFON: Kathy, does that
10 work for you?

11 MS. BEHLING: That's fine for me.

12 CHAIR GRIFFON: Can you be in
13 Cincinnati with the dogs?

14 (Laughter.)

15 MS. BEHLING: If the dogs are
16 invited.

17 (Laughter.)

18 CHAIR GRIFFON: Always. I think
19 we use this hotel enough that we could
20 probably swing that, you know.

21 (Laughter.)

22 MR. HINNEFELD: Right. As long as

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1 we are down here, we ought to be able to put
2 our menagerie on there.

3 Are we going to do a 9:30 start
4 time?

5 CHAIR GRIFFON: 9:30, yes.

6 MR. HINNEFELD: I mean it doesn't
7 hurt me.

8 CHAIR GRIFFON: 9:30. I don't
9 think we need until 10 o'clock, although that
10 was nice, but 9:30 is fine because I get in at
11 8:00 usually.

12 MR. KATZ: 9:30, done.

13 CHAIR GRIFFON: Okay. I'm sorry
14 about the logistical problems, but we will
15 have those worked out next time.

16 MR. FARVER: I hope so.

17 CHAIR GRIFFON: Yes. We missed a
18 meeting there, and it threw us all off, you
19 know. That wasn't my fault. Everybody's
20 schedule was --

21 MEMBER MUNN: Yes, just terrible.

22 CHAIR GRIFFON: The Health Physics

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1 meeting got in the way, too.

2 Alright. I think we are ready to
3 adjourn.

4 Anything else?

5 MR. KATZ: No. Thank you,
6 everybody.

7 CHAIR GRIFFON: Meeting adjourned.

8 MR. KATZ: Meeting adjourned.
9 Thank you, Behling's and Liz, if you are still
10 with us.

11 (Whereupon, the above-entitled
12 matter went off the record at 4:06 p.m.)

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