

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

+ + + + +

ADVISORY BOARD ON RADIATION AND
WORKER HEALTH

+ + + + +

SUBCOMMITTEE ON DOSE RECONSTRUCTION REVIEW

+ + + + +

MONDAY
FEBRUARY 4, 2013

+ + + + +

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

PRESENT:

MARK GRIFFON, Chairman
BRADLEY P. CLAWSON, Member
DAVID KOTELCHUCK, Member
WANDA I. MUNN, Member*
DAVID B. RICHARDSON, Member*

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ALSO PRESENT:

TED KATZ, Designated Federal Official
KATHY BEHLING, SC&A*
GRADY CALHOUN, DCAS
DOUGLAS FARVER, SC&A
STU HINNEFELD, DCAS
JENNY LIN, HHS
JOHN MAURO, SC&A*
BETH ROLFES, DCAS
SCOTT SIEBERT, ORAU Team*
JOHN STIVER, SC&A

*Participating via telephone

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

2 9:02 a.m.

3 MR. KATZ: Welcome, everyone.

4 This is the Advisory Board on
5 Radiation and Worker Health, the Subcommittee
6 on Dose Reconstruction and Review.

7 Our Chair is here. We will get
8 started. Let's just get going with roll call,
9 and we can speak to conflict of interest. We
10 need to, as we go through that, beginning with
11 the Chair, Board Members.

12 (Roll call.)

13 MR. KATZ: Okay. Then, the agenda
14 for the meeting is posted and there are some
15 materials, I think, posted related to this
16 meeting.

17 And it is your meeting, Mark.

18 CHAIR GRIFFON: Alright. Let's
19 see, I am still logging onto my computer but
20 as I do that, because I want to pull up the
21 notes from the last meeting.

22 But I guess we can start with an

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1 update on the blind dose reconstruction
2 quality control case reviews, NIOSH's blind
3 reviews.

4 MR. CALHOUN: Yes, this is Grady.

5 Yes, this one is going to be brief
6 because we have only completed a couple more
7 since our last time. So, I haven't come up
8 with a new assessment or anything like that.
9 There is really nothing new to report on that.

10 I believe that we are either on
11 our way or we have completed providing you
12 guys access to it. I am not sure about the
13 exact status of that, but I think it is close.

14 MR. HINNEFELD: Access should be
15 available to the Board Members.

16 MR. CALHOUN: Yes.

17 MR. HINNEFELD: They should be
18 able to click on the application from the
19 staff tools and see the same things that we
20 see when we click on it.

21 MR. CALHOUN: And that is really
22 all I have got as far as an update.

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1 CHAIR GRIFFON: Has anybody tried
2 that access?

3 MR. KATZ: Dave?

4 MEMBER KOTELCHUCK: Yes. Yes, I
5 have got it.

6 CHAIR GRIFFON: Oh, you do? Okay.

7 MEMBER KOTELCHUCK: I have got it
8 now.

9 CHAIR GRIFFON: I haven't tried
10 it, but good. I am glad.

11 Alright. Well, that was a quick
12 update.

13 I think the other items we are
14 going just kind of move through our cases,
15 which is why we called for this meeting, too,
16 to catch up.

17 So, without further ado, I guess
18 we can start off with Sets 8 and 9, hoping to
19 close those out. And then, we are going to go
20 into the site-specific sets, right? Is that
21 okay?

22 MEMBER CLAWSON: Mark, I have got

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1 a question. I thought that SC&A was going to
2 do some blind reviews, too, didn't they?
3 Didn't you --

4 MR. KATZ: They have been tasked.
5 They have been tasked.

6 MR. STIVER: They haven't been
7 assigned yet.

8 MEMBER CLAWSON: Oh, okay. Okay.

9 CHAIR GRIFFON: Yes, we still have
10 to select those cases, which actually maybe we
11 can talk about the mechanics of that, too, at
12 some point in this meeting, maybe after lunch
13 when I really get my bearings.

14 MEMBER CLAWSON: While we are on
15 blind reviews, I just had that question.

16 CHAIR GRIFFON: Yes. I mean, I
17 just have to be refreshed on how we did it
18 last time. Stu, I don't know if you recall
19 how we selected the --

20 MR. HINNEFELD: I think we
21 selected from a larger selection matrix, and
22 we just decided we will take these two and

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1 make them blind reviews, as opposed to the
2 typical --

3 CHAIR GRIFFON: So, it was in a
4 normal selection process. We just took out
5 two of them for blind reviews?

6 MR. HINNEFELD: Yes, I think we
7 just designated two of them as blind from the
8 ones we were going to review.

9 CHAIR GRIFFON: Okay.

10 MR. HINNEFELD: I think that is
11 what we did. Now we could put some additional
12 criteria on it --

13 CHAIR GRIFFON: Right.

14 MR. HINNEFELD: -- in terms of
15 selection, and we could use the last group we
16 put together. You know, we have put together
17 a selection matrix not that many months ago to
18 select. Was that the 16th set?

19 MR. KATZ: Yes.

20 MR. HINNEFELD: We could choose
21 from that, if there are any on there you feel
22 like, or we could generate another -- if we

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1 want to generate a list just for blind
2 reviews, and it is going to be a relatively
3 small selection, we would generate a smaller
4 list of cases, and you could make them newer
5 that way. It will take so long to do that.

6 CHAIR GRIFFON: Yes, let's think
7 about that.

8 MR. HINNEFELD: Yes.

9 CHAIR GRIFFON: And we don't have
10 to do that right now, but good point. We will
11 add that to the list of things to do.

12 MR. HINNEFELD: Yes.

13 CHAIR GRIFFON: So, it says 8 and
14 9, if we can find those matrices and work from
15 that, assuming we still don't have our
16 database functional.

17 MR. KATZ: That is too soon.

18 CHAIR GRIFFON: Yes, yes.

19 MR. KATZ: That's too soon.

20 CHAIR GRIFFON: Right, right.

21 We are still going to work from
22 the matrices at this point, and then we will

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1 use those to populate the database, I assume.

2 Okay.

3 So, sets 8 and 9, starting with
4 set 8. I am going to try to find the latest
5 copy.

6 MR. HINNEFELD: Okay. Now Beth
7 sent something on Friday, right? You sent a
8 copy of the eighth and ninth set matrices on
9 Friday?

10 MS. ROLFES: I did.

11 MR. HINNEFELD: Does that include
12 the most up-to-date information that we have
13 provided?

14 MS. ROLFES: Correct.

15 MR. HINNEFELD: Okay. So, our
16 most up-to-date stuff would be on Beth's
17 message from Friday.

18 MR. KATZ: And I sent that to your
19 CSB. Well, Beth sent it actually to your CSB.

20 CHAIR GRIFFON: Okay. So, I have
21 the latest version that was sent from NIOSH,
22 and is it safe to assume the highlighting

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1 still applies to that? If it is highlighted,
2 they are --

3 MS. ROLFES: I did not remove any
4 highlights.

5 CHAIR GRIFFON: Okay. Okay. So,
6 that would be probably the quickest way to go
7 through. If it is highlighted, it is an open
8 item.

9 And I see on No. 149.1, there was
10 an update on 1/31/13.

11 MS. ROLFES: There is a new TBD
12 out, and Jim signed it. And I am told it is
13 waiting for DOE to review it.

14 MR. CALHOUN: Yes, final DOE
15 review is where it is at right now, and it
16 does contain a 95th percentile.

17 MR. FARVER: And I believe this is
18 a Bridgeport Brass --

19 MR. CALHOUN: Correct.

20 MR. FARVER: Okay. Now I don't
21 know if this problem comes into play with
22 talking about the attachments, Attachment 1,

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1 where we did a mini-Site Profile of Bridgeport
2 Brass.

3 CHAIR GRIFFON: Right.

4 MR. FARVER: I am not sure if this
5 particular issue is in that. We will have to
6 keep that in mind when we get to Attachment 1,
7 the findings.

8 MR. CALHOUN: Sure.

9 DR. MAURO: Mark, this is John
10 Mauro.

11 CHAIR GRIFFON: Hi, John.

12 DR. MAURO: Can you guys hear me
13 okay?

14 MR. KATZ: Yes.

15 DR. MAURO: Yes, I just wanted to
16 jump in. On these Bridgeport Brass and a
17 couple of others, as you know, we had those
18 three attachments, which was Bridgeport,
19 Harshaw and Huntington. You may know -- and
20 this might help to expedite the process, is
21 the only reason I bring it up -- 149 is
22 Bridgeport Brass.

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1 I noticed in the blue information,
2 the new information, that apparently there is
3 some new material that NIOSH put out. But I
4 guess I believe that in our previous work on
5 Bridgeport Brass, Harry Chmelynski and SC&A
6 carefully reviewed other exchanges. And there
7 is actually some material in the very back of
8 this matrix where Harry delineates a
9 reevaluation of the data.

10 I believe all the original
11 Bridgeport Brass mini-Site Profile review
12 issues -- that was that Attachment 1 to the
13 eighth set -- have been resolved, including,
14 now which I find interesting, including the
15 item that is in blue right here on Item No.
16 149 dealing with this factor of two. I
17 believe that Harry reviewed that data from
18 another perspective, now not this new material
19 that is in this new TBD, and came to a
20 conclusion that, no, it looks like NIOSH was
21 right and we were wrong, so to speak.

22 But we haven't seen this new TBD

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1 and how it deals with this issue. So, this is
2 a new twist. But I thought the Bridgeport
3 Brass issues were primarily resolved.

4 MR. KATZ: Is the new TBD just
5 implementing the 95th percentile? Is that the
6 only change?

7 MR. CALHOUN: I don't know of all
8 the changes that have been made, but --

9 DR. MAURO: You can actually see
10 the write-ups at the very, very end of this
11 matrix where Harry goes through his own
12 analysis -- that was done some time ago -- on
13 this factor of two business and where he comes
14 out on it. This was something that was
15 discussed and I believe resolved.

16 CHAIR GRIFFON: Well, I still have
17 some open -- I mean, I am looking, John, at
18 the back of the matrix.

19 DR. MAURO: Yes.

20 CHAIR GRIFFON: And if these were
21 resolved, they don't show up that way in this
22 matrix.

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1 DR. MAURO: Well, I'm sorry, I
2 shouldn't say the word resolved. Harry and
3 SC&A's recommendation is that we believe these
4 matters were addressed, based on our
5 reanalysis.

6 Certainly, you folks would want to
7 hear a little bit more about that, and that is
8 fine. But this is what SC&A has done.

9 CHAIR GRIFFON: Okay. So, I mean,
10 it sounds like we could come to quick closure
11 on this --

12 DR. MAURO: We could.

13 CHAIR GRIFFON: -- but we haven't
14 seen what you and Harry have worked on, or
15 whatever, have we? Have you brought it to the
16 Committee? I don't think so. It doesn't show
17 up as --

18 DR. MAURO: Well --

19 CHAIR GRIFFON: I mean, the last
20 note I have is NIOSH to provide additional
21 information on that 95th percentile versus
22 factor of two.

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1 MR. FARVER: I believe it was in
2 our March of 2012 responses.

3 DR. MAURO: That's correct.
4 That's correct.

5 CHAIR GRIFFON: Okay. Maybe we
6 just didn't get to them.

7 MR. FARVER: We didn't get to
8 them.

9 CHAIR GRIFFON: Right, right.

10 MR. FARVER: Correct.

11 CHAIR GRIFFON: So, let's do that.
12 Let's try to get to those today, then. So,
13 let's hold that, John.

14 DR. MAURO: Okay.

15 CHAIR GRIFFON: Okay. But it
16 sounds like you might be closing that, and
17 maybe we can come back to this Item 1 as well.

18 MR. FARVER: Yes. What I did is I
19 took Beth's matrix and their responses and,
20 over the weekend, added some of our responses.
21 So, I can just send this whole thing to you.

22 CHAIR GRIFFON: Okay.

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1 MR. FARVER: And then, you will
2 have the information of Harry's analysis, and
3 you can just paste it in.

4 CHAIR GRIFFON: Okay. You edited,
5 you worked from hers and --

6 MR. FARVER: Yes.

7 CHAIR GRIFFON: Maybe I should put
8 any comments into yours. That would make the
9 most sense.

10 MR. STIVER: His is the most
11 updated version.

12 CHAIR GRIFFON: If it is the most
13 updated. You have everything that she put in,
14 right, and then you added some --

15 MR. FARVER: Yes, and additional
16 material on top of that.

17 CHAIR GRIFFON: Yes. So, I think
18 I should work from your copy, if you could
19 send that.

20 MR. FARVER: And also, I don't
21 believe her copy, and I am not even sure that
22 your original copy, had their initial

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1 responses to some of the Attachments 1, 2 and
2 3.

3 CHAIR GRIFFON: Okay.

4 MR. FARVER: I think those were
5 missing because we have sent things in
6 separately.

7 CHAIR GRIFFON: Yes.

8 MR. FARVER: And they just didn't
9 get added to the matrix.

10 MEMBER MUNN: What date was that
11 sent, do you think? Do you think that was a
12 part of what we were supposedly discussing
13 back in March? Do you know what date it
14 was --

15 DR. MAURO: March 2012 is when I
16 believe we first delivered this package of
17 Harry's responses.

18 MR. FARVER: We never talked about
19 at the meeting.

20 DR. MAURO: But we didn't talk
21 about it, yes.

22 MEMBER MUNN: Oh, all right. That

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1 explains why we don't have --

2 MR. FARVER: And Mark added some
3 of the responses afterwards.

4 MEMBER MUNN: Okay.

5 MR. FARVER: And that is why I
6 believe it says it was not discussed at the
7 meeting there on some of the items.

8 MEMBER MUNN: Okay.

9 MR. STIVER: Okay. Mark, I just
10 sent you the email that has those attachments
11 to your CSB.

12 CHAIR GRIFFON: Okay. Alright.

13 MEMBER MUNN: Can you send me a
14 copy of that, too? This is Wanda.

15 MR. STIVER: Okay. I sure will,
16 Wanda.

17 MEMBER MUNN: I appreciate it.
18 Even if it is a duplicate, it would be
19 helpful.

20 MR. STIVER: Okay. Do you have
21 access to your CDC account, Wanda, right now?

22 MEMBER MUNN: Well, actually, I

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1 would prefer the AOL account.

2 MR. STIVER: Okay. Alright. Here
3 it comes.

4 MEMBER MUNN: It is the one I keep
5 up more easily.

6 MS. LIN: Wait. If it is Privacy
7 Act information, you should not send it to the
8 AOL account.

9 MR. STIVER: Yes, this is
10 something that has got some personal
11 identifying information in it.

12 MS. LIN: Wanda, did you hear
13 that?

14 MEMBER MUNN: Yes, I did. I will
15 go to the CDC account.

16 MS. LIN: Okay. Thank you.

17 MEMBER MUNN: Thanks.

18 CHAIR GRIFFON: Okay. So, we will
19 just move past this one for now. And when we
20 get to the attachment stuff, maybe we can come
21 back to 149.1. But I would say, if you are
22 satisfied -

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1 MR. FARVER: With what, 149.1?

2 CHAIR GRIFFON: If we close
3 Attachment 1, then we can say 149.1 is, you
4 know --

5 MR. FARVER: Just so you know, my
6 computer died this morning.

7 CHAIR GRIFFON: I would like to
8 know that NIOSH --

9 MR. FARVER: It would not boot up.
10 It was giving me hard-drive errors. Mine is
11 dead. So, we are going with a backup plan on
12 some of this.

13 CHAIR GRIFFON: Okay.

14 MR. FARVER: If we are a little
15 slow at telling you an answer to something, it
16 is because I don't have all my files in front
17 of me.

18 MR. STIVER: We have about three
19 layers of attachments to get through.

20 MEMBER MUNN: That never happens
21 to me.

22 (Laughter.)

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1 DR. MAURO: This is John.

2 One point related to this 149.1,
3 the way I see it, it is a two-step process.
4 One, we probably should put to bed Harry's
5 material at the very back of this on
6 Bridgeport Brass. And everybody get
7 comfortable where we are coming from. And
8 then, of course, once we have that Site
9 Profile addressed, then going to 149.1 itself,
10 these are the specific issues on a particular
11 case, which basically draw from the original
12 review of the Bridgeport Brass.

13 What I find interesting, and why I
14 would be interested in it, is I noticed in
15 this matrix -- mine are in blue. They are
16 yellow and blue under resolution. Under the
17 blue one on 149.1, there is some new material
18 here, dated 1/31/2013, indicating that there
19 is a new TBD, something that I have not seen.

20 I don't know if others have reviewed it.

21 In theory, I think we believe we
22 resolved the issues. However, there is this

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1 now new material that is out there regarding
2 the Bridgeport Brass in terms of the Site
3 Profile that is new on the stage, so to speak.

4 MS. ROLFES: I would have to ask
5 Dave Allen why there is another one out.

6 CHAIR GRIFFON: We are going to
7 check that, John, to see if whatever you
8 reviewed is consistent with this.

9 DR. MAURO: Exactly.

10 CHAIR GRIFFON: Okay. Let's move
11 on to 149.3, then, in the meantime. I see
12 NIOSH is continuing to examine this issue.

13 MR. CALHOUN: The same thing.

14 CHAIR GRIFFON: Is that kind of
15 the latest -- yes.

16 MR. CALHOUN: It is the same
17 issue.

18 CHAIR GRIFFON: It is the same
19 issue.

20 DR. MAURO: The same issue.

21 CHAIR GRIFFON: Right. Okay.

22 MR. STIVER: So, that was it for

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1 149, right?

2 CHAIR GRIFFON: Yes. And I am
3 looking for highlighting.

4 MR. FARVER: 160.1. This is a
5 finding where a photon dose for a specific
6 year was not included in the final IREP
7 tables.

8 CHAIR GRIFFON: Right.

9 MR. FARVER: The case was
10 reworked, and it was corrected during the
11 rework. So, we can go ahead and suggest
12 closing this one.

13 CHAIR GRIFFON: Okay. So, I
14 assume, not hearing otherwise, that we can
15 close that. Alright.

16 160.2, is 160.2 similar?

17 MR. FARVER: 160.2 is similar, but
18 a little different.

19 CHAIR GRIFFON: Okay.

20 MR. FARVER: The photon dose was
21 not added in the first one. This has to do
22 with the neutron dose where you would use the

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1 proton/neutron correction factor. They
2 reworked the case, but when they reworked the
3 case, they didn't include a dose for '52 or
4 '53, and I don't understand why. I mean,
5 there was a recorded photon dose for '52 and
6 '53. So, you would apply a neutron/photon
7 correction factor, but to just zoom in for '52
8 and '53.

9 MS. ROLFES: Scott told me earlier
10 that we cannot hear him.

11 Scott, are you there?

12 MR. SIEBERT: Yes, I am here.

13 MR. CALHOUN: Did you get that,
14 160, or do you have anything on that one?

15 MR. SIEBERT: Let's see, 160?

16 MR. CALHOUN: Point two.

17 MR. SIEBERT: Yes, it is a
18 question as to why neutrons were not assigned
19 in '52 and '53, is that correct?

20 MR. KATZ: That's correct.

21 MR. CALHOUN: Yes.

22 MR. SIEBERT: Okay. What I am

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1 seeing here is the individual was in Building
2 313, which is a fuel fabrication facility and
3 not listed as a neutron area. That is
4 information that we got from a CATI in 2010
5 that we didn't have for the original
6 assessment back in 2006. So, when we reworked
7 it, we reflected that information. So, we
8 would not assign neutrons for those two years
9 based on the facility.

10 MR. FARVER: It was just those two
11 years you had that facility?

12 MR. SIEBERT: That is what I am
13 seeing, yes.

14 MR. FARVER: Okay. That is a fair
15 explanation. I suggest we close that, then.

16 CHAIR GRIFFON: And it was based
17 on the CATI, you said? Based on the CATI
18 information?

19 MR. SIEBERT: Yes, we had a new
20 CATI, a survivor CATI, in 2010 that was not
21 available. Well, let me take that back. I
22 assume it was a survivor since it was later.

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1 It could have been we came back and talked to
2 the same person again. I honestly am not
3 sure. I made that assumption just a second
4 ago. But we did have a new CATI in 2010 that
5 we didn't have in 2006.

6 MR. FARVER: So, when they did the
7 rework phase, they just had more recent
8 information.

9 CHAIR GRIFFON: Yes. No, I
10 understand. I am just thinking of using the
11 CATI information of a survivor to sort of
12 place a worker to take away dose. You know,
13 this is an interesting wrinkle.

14 MR. FARVER: Yes.

15 CHAIR GRIFFON: I don't know how
16 close the case was.

17 MR. CALHOUN: Chances are it was
18 not a survivor because the claimant is not
19 deceased.

20 MR. FARVER: Now, Scott, was this
21 a compensable case?

22 MR. SIEBERT: It was when we

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1 reworked it in 2010, yes.

2 CHAIR GRIFFON: Okay. Okay.

3 MR. SIEBERT: Or after the 2010,
4 yes.

5 CHAIR GRIFFON: Alright. In that
6 case, I think it is fine. Alright.

7 MR. CALHOUN: Yes, and just for
8 the record, it was not a survivor.

9 MR. SIEBERT: Yes, I just saw
10 that, too.

11 MR. FARVER: Go on to 160.3, and
12 this has to do with the internal --

13 CHAIR GRIFFON: Just to say we are
14 going to close that out.

15 MR. FARVER: yes.

16 CHAIR GRIFFON: Yes. Okay.

17 MR. FARVER: 160.3 has to do with
18 the internal doses for the same case. When
19 they reworked the case, they just did a
20 partial DR, and they did not do internal
21 doses. So, therefore, the finding is no
22 longer relevant.

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1 MEMBER MUNN: That should be an
2 easy closure.

3 CHAIR GRIFFON: Yes. Okay.

4 MR. FARVER: And I believe this
5 was one of the cases that Kathy wrote up the
6 report on. I believe so.

7 CHAIR GRIFFON: Okay. And 160.4,
8 oh, is that similar? Yes, internal dose
9 again, right?

10 MR. FARVER: 160.4, the same
11 thing.

12 CHAIR GRIFFON: Yes. So, it is
13 closed.

14 MEMBER MUNN: We will close it.

15 CHAIR GRIFFON: Close it, Wanda.

16 MEMBER MUNN: Yes, good.

17 CHAIR GRIFFON: Alright. And that
18 is it for that case.

19 MR. FARVER: That is it on 160.

20 CHAIR GRIFFON: Okay. So, it
21 seems like Mauro's work is going to hold us up
22 from closing this out, right?

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1 (Laughter.)

2 I am just teasing.

3 We miss you here, John, you know.

4 DR. MAURO: I could tell. I could
5 tell.

6 (Laughter.)

7 MR. STIVER: He is here in spirit.

8 MR. FARVER: I think the next one
9 is 165.4.

10 CHAIR GRIFFON: There you go, yes,
11 165.4, which is -- just for our reference,
12 what site is this?

13 MS. ROLFES: INL.

14 CHAIR GRIFFON: INL? Okay. Is
15 the June 6th, 2012 update the last that we
16 have? NIOSH review all INL claims and
17 identify non-claimants that were in the area.
18 Is that the right one? NIOSH was supposed to
19 report back on it?

20 MR. FARVER: And then, they had a
21 response in there. It is in green under the
22 NIOSH response column.

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1 MEMBER MUNN: It is brand-new.

2 CHAIR GRIFFON: Oh, okay.

3 February --

4 MEMBER MUNN: Yes.

5 MR. SIEBERT: This is Scott.

6 I tried to put the newest stuff in
7 green, so it stuck out.

8 CHAIR GRIFFON: Yes. Okay.

9 MEMBER MUNN: Thank you very much.

10 That was most helpful.

11 MR. FARVER: Based on their
12 response, we would suggest closing it.

13 CHAIR GRIFFON: Right. Yes.
14 Okay. Yes, that answers the question. So,
15 that is closed.

16 And then, 165.5.

17 MR. FARVER: 165.5, this is the
18 wrong uncertainty was used for the medical
19 exams. It should have been 30 percent, but
20 they used 20 percent.

21 MEMBER KOTELCHUCK: I am curious.

22 How would you determine that? What was that

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1 based on?

2 MR. FARVER: The procedure says 30
3 percent.

4 MEMBER KOTELCHUCK: It was just a
5 simple mistake?

6 MR. FARVER: It was --

7 MEMBER KOTELCHUCK: Okay. Thirty
8 percent was the number --

9 MR. FARVER: Yes.

10 MEMBER KOTELCHUCK: -- that should
11 have been there?

12 MR. FARVER: Yes.

13 MEMBER KOTELCHUCK: Okay. It is
14 not a question of your deciding that 30
15 percent was a better number than 20?

16 MR. FARVER: No, no.

17 MR. STIVER: It is not based on
18 the science. It is just it was a --

19 MEMBER KOTELCHUCK: Oh, okay.
20 Fine.

21 CHAIR GRIFFON: And it looks like
22 it was an individual override, right?

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1 MR. FARVER: Yes.

2 CHAIR GRIFFON: The tool wasn't
3 messed up, right. That is what we asked,
4 right, was, did this impact all cases? So, it
5 is just a quality assurance problem and
6 nothing wrong with the tool?

7 MR. FARVER: It is a QA problem,
8 but I am not sure that is a typical parameter
9 you would enter. The 30 percent should be
10 hard-coded.

11 CHAIR GRIFFON: Right.

12 MR. FARVER: So, I am not sure how
13 you would get to 20 percent.

14 MR. STIVER: So, it was entered
15 separately by the dose reconstructor at the
16 time.

17 MR. SIEBERT: This is one, if you
18 recall correctly, this is one of the INELs
19 that we did. I am sure this is going to come
20 rushing back to you with pain.

21 (Laughter.)

22 We had to do a best estimate, but

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1 there was no best estimate tool for INEL at
2 the time. So, they used the complex-wide best
3 estimate tool and made adjustments to that to
4 fit the circumstances of INEL.

5 What the dose reconstructor did in
6 this case with medical x-rays is they did not
7 put it in the tool. They had the values for
8 the medical x-rays and just did a side
9 calculation because they didn't want to do
10 more changes to the tool. And unfortunately,
11 when they did that site calculation, they
12 multiplied by .2 instead of .3.

13 MR. FARVER: Okay. I have seen
14 them do that before, and they just do it on
15 the sidebar of the IREP table.

16 MR. SIEBERT: Right.

17 MR. FARVER: They just do that
18 calculation, multiply it by .3, or in this
19 case they just typed in .2. Okay. I
20 understand.

21 CHAIR GRIFFON: Okay.

22 MR. FARVER: It is just a QA,

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1 another QA issue.

2 CHAIR GRIFFON: Yes, yes.

3 MR. FARVER: But we can go ahead
4 and close this.

5 MEMBER MUNN: Please do.

6 CHAIR GRIFFON: Okay. That is
7 closed.

8 MR. FARVER: 166.6, this looks
9 like the CADW data was inconsistent with the
10 IREP input data. What it came down to is we
11 were tasked to go back and review a NIOSH
12 response from March of 2012, and we did that.
13 And we agreed with what they did. So, we
14 suggested closing this finding. That is the
15 short response.

16 You know, it is another QA issue.

17 CHAIR GRIFFON: Yes.

18 MR. STIVER: Without having the
19 work showing in the file, so not being quite
20 clear on what was done and why.

21 CHAIR GRIFFON: Okay, but I think
22 we are okay with closing it.

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1 MR. FARVER: Yes.

2 CHAIR GRIFFON: We are not losing
3 the fact that it was a QA here.

4 MR. FARVER: No.

5 CHAIR GRIFFON: Closed, Wanda,
6 okay?

7 MEMBER MUNN: Yes, fine. And I am
8 just thinking how nice it would be if we had a
9 database squared away, so that we could just
10 click on that attachment there.

11 (Laughter.)

12 MR. HINNEFELD: I was very clear
13 at the design meeting that nothing would be
14 done for this meeting.

15 (Laughter.)

16 MEMBER MUNN: Yes, I know.

17 CHAIR GRIFFON: I thought at the
18 design meeting we assigned this to Wanda to
19 finish. Maybe not. I could be wrong.

20 (Laughter.)

21 MR. STIVER: We have gotten adept
22 at working with three or four different

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1 versions of a matrix.

2 MR. FARVER: 171.2.

3 MR. STIVER: What site is this
4 for?

5 CHAIR GRIFFON: So, this was in
6 your hands to review further, SC&A.

7 MR. FARVER: Yes. We reviewed it
8 further. The original finding indicated that
9 the neutron assignment ended in '64. However,
10 NIOSH did assign interim doses through '74.
11 And beginning in '75, all the employees'
12 photon doses were zero and no neutron
13 monitoring was performed.

14 So, based on that information, the
15 job description, SC&A agrees that the neutron
16 dose after '74 is unlikely, agrees with NIOSH,
17 and recommends closing the finding.

18 MEMBER MUNN: I am not seeing
19 anything like that on the entry here. We are
20 just now entering it?

21 MR. FARVER: Yes.

22 CHAIR GRIFFON: Okay.

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1 MR. STIVER: She said she didn't
2 see what you just read, page 8. But she
3 doesn't have it.

4 Wanda, I did email that to your
5 CDC account.

6 MEMBER MUNN: Okay.

7 MR. STIVER: So, the latest
8 version with Doug's comments is in that.

9 MEMBER MUNN: Good. Thank you
10 very much. It wasn't there when I last
11 checked, but I go look again.

12 MR. STIVER: Okay.

13 CHAIR GRIFFON: Okay. So, let's
14 close 171.2. We are saying closed.

15 MR. FARVER: It looks like 171.2
16 is closed.

17 171.3, occupational medical x-ray
18 dose was not assigned for the pancreas from
19 '84 through '89. It was inadvertently left
20 out of the workbook, the '84-to-'89 data.

21 MEMBER KOTELCHUCK: Was this a
22 case of pancreatic cancer or what?

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1 MR. HINNEFELD: It must have been
2 or it wouldn't matter.

3 MEMBER KOTELCHUCK: Why wouldn't
4 you look at the pancreas?

5 MR. HINNEFELD: Well, they did,
6 but they just left a few years out. Those
7 five to six years were inadvertently left out
8 of the dose reconstruction.

9 MEMBER KOTELCHUCK: Oh, okay.

10 MR. HINNEFELD: But the rest of
11 the employment they did.

12 MEMBER KOTELCHUCK: Okay.

13 MR. CALHOUN: Doug, can you email
14 that matrix to Scott Sieber?

15 MR. HINNEFELD: Actually, why
16 don't you send it to all of us? I mean, we
17 are working from Beth's, and you have added
18 things to that.

19 MR. FARVER: Okay. It is not that
20 much different until we get down to the
21 attachments.

22 MR. HINNEFELD: Okay.

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1 CHAIR GRIFFON: Can you tell me, I
2 see the note on 171.3 that NIOSH will
3 determine if all these modifications from
4 these case findings taken together would
5 affect the case outcome? You looked at the
6 case --

7 MR. CALHOUN: Scott, hello?

8 MR. SIEBERT: Oh, I'm sorry, I
9 didn't know you were addressing that to me.

10 CHAIR GRIFFON: No, I was broadly
11 addressing it, but anyway.

12 (Laughter.)

13 MR. SIEBERT: Sorry about that.

14 Yes, this claim was actually
15 reworked in 2011, and the dose reconstructor
16 took into account a lot of these issues and
17 addressed it. Obviously, those medical x-rays
18 were included in the most recent version as
19 well. And it was still non-comp.

20 CHAIR GRIFFON: And what was the
21 PoC?

22 MR. SIEBERT: Oh --

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1 CHAIR GRIFFON: I didn't catch
2 that number, the oh.

3 (Laughter.)

4 MR. SIEBERT: Give me a second
5 here.

6 CHAIR GRIFFON: Sure, sure.

7 MR. SIEBERT: The updated PoC in
8 the latest version was 42.35.

9 CHAIR GRIFFON: Okay. So, it
10 wasn't really, really close. Okay.

11 DR. MAURO: This is John Mauro
12 again.

13 I had an administrative question,
14 the answer which I thought we should have
15 known. But when you have a circumstance like
16 this where an issue comes up on a particular
17 case, and you realize, oh, yes, we do have to
18 fix this, and you fix it, just as you have
19 done, how is that captured? There is a new
20 PoC and it is still uncompensated. How is
21 that captured administratively within the
22 record?

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1 MR. CALHOUN: It depends on what
2 drives us to look at that change. If there is
3 a procedure that changes, we will catch it up
4 with a PER.

5 DR. MAURO: Yes.

6 MR. CALHOUN: Okay?

7 DR. MAURO: Yes.

8 MR. CALHOUN: If there is new data
9 that comes up, we will catch it with what we
10 call a PAD, a post-approval dosimetry review.
11 Those are individual reports.

12 If it is something that would
13 change compensability, we would request a
14 rework from the Department of Labor and revise
15 the claim.

16 DR. MAURO: Okay. So, the rework
17 occurs and reissued on a much more formal
18 basis when there is a reversal on a
19 compensation decision, but the records just
20 administratively that apply if this didn't
21 move forward, that is more of an internal
22 document to the NIOSH records?

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1 MR. CALHOUN: Right, right.

2 CHAIR GRIFFON: Okay. So, where
3 we left off, 171.3, I think I got the answer
4 we wanted, which was that they did look at all
5 these issues and rework the whole case, and it
6 really didn't have any bearing on the PoC; it
7 wasn't important. So, I am comfortable with
8 that.

9 MR. KATZ: Closed.

10 CHAIR GRIFFON: Closed?

11 MR. FARVER: Closed.

12 CHAIR GRIFFON: Okay.

13 MR. STIVER: Okay. I have sent the
14 latest matrix with the updates to all of you.

15 MS. ROLFES: Thank you.

16 MR. KATZ: Good.

17 MR. STIVER: It should be showing
18 up momentarily.

19 CHAIR GRIFFON: 171.4 then?

20 MR. FARVER: Okay. This has to do
21 with assigning coworker doses for unmonitored
22 years. This is where I am going to have to

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1 -- you really need to look at Table 5 of our
2 DR review because it spells out the yearly
3 assignments. It is kind of confusing unless
4 you look at that. I really couldn't include
5 it in the matrix.

6 CHAIR GRIFFON: This is in what
7 you just sent?

8 MR. STIVER: Yes, this should be.
9 What page are we on?

10 MR. FARVER: Page 86, 87.

11 MR. STIVER: Yes, dose responses,
12 and then keep going way down in 88 or 89.

13 MR. FARVER: Now if I can find
14 that document?

15 CHAIR GRIFFON: Now help me. We
16 were on 171.4, right?

17 MR. FARVER: Yes. I will have to
18 look and see what case that is.

19 CHAIR GRIFFON: I think we had two
20 questions in here, while he is looking for
21 that. One was on the case, but one at the
22 bottom, before the blue, where SC&A entered

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1 their information, it says, NIOSH will
2 consider the policy conversation on the
3 decision-making process for the returning
4 worker, the workforce potentially exposed for
5 the model versus non-exposed, you know, versus
6 environmental. That is something that I think
7 we -- this is a generic issue, I guess. I
8 don't know if it is captured in the
9 overarching guidelines. Stu, do you know?

10 MR. HINNEFELD: I don't think it
11 is on the list right now.

12 With respect to that, it is
13 generally done off of information about the
14 employee's work and whether there is
15 sufficient information to conclude that this
16 person really wouldn't have been exposed
17 particularly. And so, they would get
18 environmental, versus someone who potentially
19 was periodically exposed.

20 So, it is essentially a three-
21 point decision. Someone who was not probably
22 exposed would get environmental. Someone who

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1 was exposed somewhat, you know, who wasn't
2 excluded from radiological areas, but didn't
3 necessarily work there all the time or didn't
4 work with hands-on reactive material, they
5 could get 50 percent of a coworker. And then,
6 people who we would expect to be fairly
7 readily exposed would get the 95th percent.
8 So, it is a three-piece decision, and it is
9 based on information in the file. The less
10 information in the file, the more likely you
11 are going to be at the higher end of the
12 distribution because you, essentially, start
13 there, absent evidence of -- that you believe
14 something else.

15 So, that is how it is done, but I
16 don't know where that is written down
17 anywhere.

18 CHAIR GRIFFON: So, that is
19 consistent across all the sites, right?

20 MR. HINNEFELD: Yes.

21 CHAIR GRIFFON: That is our
22 philosophy?

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1 MR. HINNEFELD: Yes.

2 CHAIR GRIFFON: It just may be the
3 different teams --

4 MR. HINNEFELD: Then, the
5 application of that --

6 CHAIR GRIFFON: There is judgment
7 there, too.

8 MR. HINNEFELD: There will be
9 judgment in the application of that.

10 CHAIR GRIFFON: Right.

11 MR. HINNEFELD: And I can't argue
12 with that.

13 CHAIR GRIFFON: But is the policy
14 spelled out in a certain document or is it --

15 MR. HINNEFELD: Boy, I bet it
16 is --

17 MR. CALHOUN: I think it is.

18 MR. HINNEFELD: Yes.

19 MR. CALHOUN: I can't point to the
20 document, but I know that in some of the
21 coworker TIBs that exist --

22 MR. HINNEFELD: It is in there,

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1 yes.

2 CHAIR GRIFFON: Okay. I think
3 that is what we were --

4 MEMBER MUNN: Excuse me. I don't
5 know if it is my phone or not, but I am not
6 getting a lot of what you are saying.

7 MR. SIEBERT: Yes, the same goes
8 for me.

9 CHAIR GRIFFON: Are you not
10 hearing certain people or nobody?

11 MEMBER MUNN: Well, it sounds like
12 your conversation is taking place a long way
13 away from the microphone. That is just what
14 it sounds like, but maybe it is not true.

15 I really didn't get the gist of
16 what that discussion was about. Did I gather
17 correctly that there is some question about
18 what the guidance document is for the action
19 that was taken here?

20 CHAIR GRIFFON: Yes, the
21 overarching -- can you hear me better now,
22 Wanda?

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1 MEMBER MUNN: Beg your pardon?

2 CHAIR GRIFFON: Can you hear me
3 better now?

4 MEMBER MUNN: Yes, I can hear you
5 a little better now.

6 CHAIR GRIFFON: Okay. Okay.

7 MEMBER MUNN: So, the comment
8 about OTIB-60, is that still being debated?

9 CHAIR GRIFFON: I don't know that
10 we brought up a particular OTIB, but we were
11 asking the question on the bottom of 171.4.

12 MEMBER MUNN: Right.

13 CHAIR GRIFFON: That NIOSH will
14 consider the policy regarding assigning worker
15 exposure levels or environmental, coworker or
16 environmental. And Stu is saying that the
17 philosophy is to do 95th if they are
18 definitely exposed a lot, 50th if they are
19 likely in areas where they would get
20 exposures, and environmental levels if they
21 are not likely to be in areas where they would
22 get exposed.

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1 MEMBER MUNN: Right.

2 CHAIR GRIFFON: Which makes sense.

3 And I just asked if that is in some of the
4 overarching guidance documents, and that is
5 what we were -- Grady seems to think that it
6 is in probably several, but that is all we
7 were discussing.

8 MEMBER MUNN: Okay. Alright.

9 CHAIR GRIFFON: No controversies.

10 MEMBER MUNN: So, we don't
11 actually know whether the OTIB which was
12 referenced earlier in our discussion of this
13 particular item is, in fact, adequate? That
14 is the bottom-line question here, right?

15 CHAIR GRIFFON: Yes, I don't know
16 that we were discussing any particular OTIB.

17 MEMBER MUNN: Yes, well, the only
18 reason I keep bringing that up is because that
19 was a part of the response earlier to 171.4.

20 CHAIR GRIFFON: Oh.

21 MR. STIVER: Yes, I think what she
22 is referring to is TIB-60, Section 5.4.2.1.

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1 It should be on page 87. There is a yellow
2 highlight.

3 MEMBER MUNN: Yes, right.

4 MR. STIVER: Excerpts from that
5 OTIB.

6 CHAIR GRIFFON: Oh, yes, you're
7 right, OTIB-60. I'm sorry, Wanda. I wasn't
8 looking at that part. Yes, yes.

9 MEMBER MUNN: Oh, well, that is
10 the only reason I keep bringing it up.

11 CHAIR GRIFFON: Okay. Yes, yes.

12 MEMBER MUNN: I am wondering,
13 since we discussed it before, is that now all
14 moot.

15 MR. FARVER: Well, I don't know if
16 it is all moot, but it is all confusing
17 because, really, you have to go back and look
18 at the Table 5 from our original report
19 because we spell it out year-by-year, what
20 they assigned. Sometimes they assigned an
21 environmental dose; sometimes they will assign
22 a coworker dose; sometimes it will be no dose.

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1 MEMBER MUNN: You're wondering
2 why?

3 MR. FARVER: Yes.

4 MEMBER MUNN: Yes.

5 MR. FARVER: Because it doesn't
6 appear to be consistent with the OTIBs or just
7 consistent across the board.

8 MEMBER MUNN: Got it. Okay. I'm
9 sorry, I didn't mean to have you rehash the
10 whole thing you had already talked about.

11 CHAIR GRIFFON: No, that is okay.
12 Thank you, Wanda.

13 MEMBER CLAWSON: Mark, this is
14 Brad.

15 CHAIR GRIFFON: Yes?

16 MEMBER CLAWSON: How do they
17 classify the person? Is this under job titles
18 that they would do the environmental dose or
19 how?

20 MR. CALHOUN: No, we would take a
21 look at a bunch of things. You know, you look
22 at the era when it occurred. You look at the

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1 records that you have, the dosimetry records.

2 You look at the CATI and see what the
3 individual said where they worked. And you
4 have got to take all those into account and
5 try to come up with what we think is the best
6 approach.

7 MEMBER CLAWSON: Okay. So, do
8 you --

9 MR. CALHOUN: We don't just plug
10 somebody into a category. It is a much more
11 detailed thing to do, because somebody may
12 have a job category that sounds like they were
13 in an administrative area without looking at
14 anything else --

15 MEMBER CLAWSON: Right.

16 MR. CALHOUN: -- but you have got
17 to look at everything.

18 MEMBER CLAWSON: That is what I
19 was getting at.

20 MR. STIVER: Yes, that was my
21 concern. You might have somebody who was
22 pulled from what would appear to be you have

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1 an engineering or an accounting-type job; they
2 might have to go into the dirty area for a
3 particular job, and it might not have shown
4 up.

5 MR. CALHOUN: Right. Right, that
6 is how it is done. I, obviously, don't know
7 all the details of this one yet, but --

8 CHAIR GRIFFON: But that is my
9 point. When you say it is a much more
10 detailed thing, is it outlined anywhere?

11 MR. CALHOUN: Yes, I believe it
12 is.

13 CHAIR GRIFFON: Yes. Okay. I'm
14 sorry.

15 MR. CALHOUN: I got that down. I
16 am going to try to find out where that is.

17 CHAIR GRIFFON: Alright. That is
18 what we were looking for, I think.

19 MEMBER CLAWSON: That is the point
20 I wanted to get to.

21 CHAIR GRIFFON: Yes.

22 MEMBER CLAWSON: Do we have --

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1 CHAIR GRIFFON: Right.

2 MEMBER CLAWSON: -- something
3 established that we can hang our hat on? This
4 is how this process would go before we would
5 do that?

6 CHAIR GRIFFON: Yes. And then, of
7 course, there is still going to be some --

8 MEMBER CLAWSON: There is going to
9 be some judgment in there.

10 CHAIR GRIFFON: Judgments, right,
11 in an application, but if there is some
12 guidance overall, that would be good to know,
13 yes.

14 MR. FARVER: And what they are
15 based on.

16 Yes, if you go back and look at
17 Table 4 and Table 5, Table 4 just lists the
18 assigned intakes and intake periods and what
19 it is based on, whether it is based on
20 bioassay or coworker or environmental. I
21 mean, so that is how we started to break them
22 down to look at each individual intake, what

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1 is it based on?

2 And then, we summarized it by year
3 in Table 5, by year and nuclide. And when you
4 go across the board, it is not always clear
5 what they are assigned or, well, why they
6 weren't assigned. Because, for some of the
7 years, they are assigned cesium-137 intakes
8 and -- well, it looks like half and half --
9 and then, half the time they are not. But I
10 am not sure that the job function had changed.

11 So, when we try to correlate this
12 with the job function, it doesn't always make
13 sense is kind of how we are looking at it.

14 MEMBER MUNN: Well, maybe it has
15 nothing to do with the campaign timing.

16 MR. CALHOUN: Or urinalysis, if it
17 existed.

18 I don't know; Scott, do you have
19 any more details on that than we do? I am
20 looking through some records here and I can't
21 come up with anything quickly.

22 MR. SIEBERT: In the original, the

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1 dose reconstructors seemed to have based it
2 mostly upon the fact that the individual did
3 or did not have internal monitoring, bioassay,
4 during the various timeframes. And that is
5 what they seemed to have mostly based the
6 decision upon, whether a person was being
7 monitored as to whether they were being
8 exposed.

9 That is why there is some
10 inconsistency, it appears, from Table 5,
11 because there are times where they may have
12 been monitored for strontium when they weren't
13 receiving it, or something of the sort.

14 When we redid it, we were more
15 consistent in how we assigned things because
16 just basing it on the monitoring alone seemed
17 to be, well, as is mentioned in this point, it
18 was a little spotty. So, when it was
19 reevaluated, it was more consistently assigned
20 based on the actual bioassay monitoring as
21 well assuming coworker exposures through --
22 I'm looking real quick; give me a second

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1 here -- I believe through '72, when the last
2 bioassay sample was collected.

3 So, we actually assessed and
4 assigned more internal in the rework, based on
5 the fact that we assigned coworker across the
6 board to '72 instead of in a spotty manner
7 that it was in the original assessment.

8 MR. FARVER: Okay, and why was it
9 reworked?

10 MR. SIEBERT: Give me a second
11 here.

12 MR. KATZ: While you are looking
13 into that, Scott, can I just ask everyone on
14 the line -- I don't know who the culprit is,
15 but someone has some sort of, I don't know if
16 it is a speaker phone or a strange wireless
17 connection or what, but we are getting these
18 shrill, little back noises that are annoying.

19 So, if everybody could maybe mute their phone
20 except for whoever is speaking, maybe that
21 will help. Or maybe it is another problem.
22 We don't know, but let's try that.

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1 MR. CALHOUN: Scott, I got this.
2 It looks like -- oh, wait a second, that was
3 '11. Rework complete. Wow, this thing might
4 have been reworked again just now in 2012.

5 This one, it looks like in '09
6 there was a PER, and then it was returned and
7 it was reworked. Let me make sure I have got
8 the right case. And then, additional data, we
9 just got additional data, a new employment in
10 '11, and the case was reworked again.

11 MR. SIEBERT: Correct.

12 MR. CALHOUN: And it was reworked
13 in January of 2012.

14 So, the first one was reworked
15 because of a PER. The second one was reworked
16 because we got additional employment from
17 Y-12. And that is where we stand now. That
18 is where the current dose reconstruction is.

19 CHAIR GRIFFON: And I am trying to
20 understand why the original, going back to
21 Doug's question, why was the original
22 assignment of coworker versus environmental

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1 spotty, as you said, based on whether the
2 person was monitored or not? If it is
3 supposed to be this complicated, detailed
4 approach, not just looking at one thing, how
5 would it end up relying on monitoring to
6 determine whether you assigned a coworker
7 model or not? That seems inconsistent with
8 your policy.

9 MR. FARVER: Well, some years were
10 monitored.

11 CHAIR GRIFFON: Was it just a
12 mistake or was it --

13 MR. FARVER: Some periods the
14 nuclides were based on monitoring; some were
15 based on coworker.

16 CHAIR GRIFFON: Right.

17 MR. FARVER: Some were based on
18 just environmental levels.

19 CHAIR GRIFFON: Right.

20 MR. FARVER: Some were not
21 assigned at all. But it was very spotty. In
22 other words, sometimes they will assign

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1 coworker doses for a certain time period,
2 except for certain nuclides, and then, those
3 will be environmental or those will be no
4 intake.

5 MR. STIVER: So, there is a whole
6 patchwork, the thing on the nuclide and the
7 time period. Whether it was a measurement of
8 coworker or environmental, it was just kind of
9 hard to try to unravel that --

10 CHAIR GRIFFON: Yes, yes, yes.

11 MR. STIVER: -- to determine the
12 cause, the reasons for the choices that were
13 made.

14 MR. CALHOUN: Was the actual DR
15 reviewed in this case the one completed in
16 '06? Or was it the one completed in '10?

17 MR. HINNEFELD: This must have
18 been '06.

19 MR. CALHOUN: Yes, that is what I
20 am thinking.

21 MR. SIEBERT: The original is the
22 2006 version.

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1 MR. CALHOUN: Right. Okay.

2 MR. STIVER: Yes, this is the '06
3 version here.

4 MR. KATZ: Scott, I think it is
5 your phone because, when you muted, it was
6 fine, and now we are hearing it again.

7 MR. FARVER: Yes, so this was done
8 in 2006.

9 MR. SIEBERT: Now I just muted it
10 and I could still --

11 MR. KATZ: Oh.

12 MR. FARVER: So, I don't know what
13 to do about this finding because it has all
14 changed since then.

15 CHAIR GRIFFON: Yes.

16 MR. FARVER: But I don't know that
17 it has been correct --

18 MR. CALHOUN: Well, if it is the
19 same case that I owe you whatever my
20 determination of environmental versus 50th
21 versus 95th we found, that could help.

22 MR. FARVER: So, make this another

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1 item to check up on.

2 MR. HINNEFELD: I think one way to
3 look at this is to try to decide what has
4 happened since 2006 when this was first done,
5 that would standardize, essentially, the
6 decisions about environmental versus coworker.

7 I think what has been done since 2006, and
8 how we fixed a situation that allowed this one
9 to occur in this fashion, and do we feel
10 confident that we are not going to have
11 something like this?

12 Looking at Table 5, it seems like
13 there is a work location decision being made.

14 For instance, at some point the person worked
15 in a facility where plutonium was feasible and
16 sometimes he didn't.

17 The same question could be made
18 for some of the fission products. It looks
19 like there is a suite of environmental
20 isotopes that are provided at environmental
21 times which doesn't include the whole raft of
22 potential. And so, this is going to be really

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1 hard to unravel, but I think if we can come up
2 with something that says, since 2006 we have
3 done a better job of standardizing this
4 decision about environmental versus coworker,
5 I think that is where the search has to be on
6 there.

7 MR. FARVER: Yes. Yes, that is
8 what we are after. But you understand that
9 that is a little confusing initially just
10 looking at that and --

11 CHAIR GRIFFON: That is what I am
12 thinking.

13 (Laughter.)

14 MR. HINNEFELD: Well, we have got
15 in one period, 1969, we have got no for
16 uranium-234 and plutonium-239 but a yes for
17 americium-241.

18 CHAIR GRIFFON: I guess, Stu, that
19 is why I was trying to understand whether this
20 was an individual situation -- because I
21 understand 2006, it is an older case, but
22 there were a lot of DRs done from 2000 to

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1 2006, I mean, in this program. So, if you
2 improved 2006, does that mean it is going to
3 be spotty going backwards or is this kind of a
4 one-off? I guess that is what I am trying to
5 understand.

6 MR. HINNEFELD: Yes, I understand
7 exactly what you are saying.

8 CHAIR GRIFFON: Yes. I mean, if
9 there was no guidance out there, then can we
10 assume that --

11 MR. HINNEFELD: Yes, what guidance
12 was used in this case?

13 CHAIR GRIFFON: Right.

14 MR. HINNEFELD: Because we know
15 what site it is from.

16 CHAIR GRIFFON: Right.

17 MR. HINNEFELD: And so, what
18 guidance was out there at the time and could
19 other stuff have been done in that fashion, I
20 guess? I suspect a lot of cases from this
21 site would have been reworked under the Super
22 S plutonium PER --

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1 CHAIR GRIFFON: Right.

2 MR. HINNEFELD: -- which would
3 have occurred. That is probably the..., what we
4 reworked it under.

5 CHAIR GRIFFON: Right.

6 MR. CALHOUN: Actually, this one
7 was reviewed for three different PERs.

8 MR. HINNEFELD: Okay.

9 MR. CALHOUN: Twelve, 14, and 16.

10 MR. HINNEFELD: So, I would think
11 that most of the things that had been done by
12 this time probably were reworked because of
13 the PER, that Super S PER. So many cases were
14 reworked under the Super S PER. So, I suspect
15 everything has been reworked. So, the
16 question, have we standardized the situation
17 sufficiently and had we standardized
18 sufficiently by the time we did the PER
19 work --

20 CHAIR GRIFFON: Right.

21 MR. HINNEFELD: -- that we
22 essentially addressed it.

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1 CHAIR GRIFFON: And that is for
2 Idaho or --

3 MR. HINNEFELD: This is not an
4 Idaho case.

5 CHAIR GRIFFON: Oh.

6 MR. HINNEFELD: It is X-10.

7 CHAIR GRIFFON: I'm sorry, X-10.

8 MR. HINNEFELD: It is X-10.

9 CHAIR GRIFFON: Yes.

10 MS. BEHLING: Excuse me for just a
11 second. This is Kathy Behling. Can I make a
12 quick comment?

13 It is a little bit of an aside,
14 but I just finished -- well, in fact, a few
15 weeks ago, I sent out the comparison of the
16 second blind review that SC&A did, and I made
17 the comparison between SC&A and NIOSH. It is
18 interesting that this particular issue came up
19 also in that blind review. Hopefully, perhaps
20 at our next meeting I will be able to make
21 that presentation.

22 But it was also the X-10 facility,

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1 and NIOSH did not assign any coworker data,
2 and SC&A did. So, I think this is an
3 important issue because I believe that case
4 was also reworked, but it was also done at the
5 end of 2006.

6 CHAIR GRIFFON: Yes. So, that is
7 why I keep harping on this. I think we have
8 heard this issue before, you know, and that is
9 why the question on guidance and timing and
10 when it changed I think might be important,
11 and whether it is a broader issue I think is
12 important for our overall audit.

13 So, I guess the next step is to
14 find out if there are guidelines and when they
15 were, as you said, improved or what existed
16 prior to them improving, and then, a little
17 more on understanding this case possibly, if
18 it can be unraveled. I think that is
19 secondary. I think the bigger issue is the
20 broader question.

21 MR. HINNEFELD: Okay.

22 CHAIR GRIFFON: Alright. So, that

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1 is just a NIOSH action, I think.

2 MEMBER CLAWSON: You know, one
3 thing I would like to compliment NIOSH on,
4 though, I like when Grady was able to go
5 through all the different changes.

6 CHAIR GRIFFON: Yes.

7 MEMBER CLAWSON: That showed, you
8 know, that we are tracking what is going on.
9 I did want to compliment you guys on that
10 because that shows we are keeping track of
11 what and why. That sure helps.

12 CHAIR GRIFFON: Okay. Let's move
13 on to the next one then.

14 So, that remains a NIOSH action.

15 MEMBER CLAWSON: I believe the
16 next one is 174.1.

17 CHAIR GRIFFON: I still see one
18 before that.

19 MEMBER CLAWSON: Okay.

20 CHAIR GRIFFON: Oh, it is
21 observation. It is the Tab 171 observation.

22 MEMBER MUNN: How about the

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1 reevaluation? That is a graph.

2 CHAIR GRIFFON: Oh, yes. No
3 further action. I don't know why it is still
4 in blue. Anyway, okay, I think that is okay,
5 right?

6 MEMBER MUNN: Oh, I guess because
7 we haven't closed it yet.

8 CHAIR GRIFFON: Yes.

9 MR. SIEBERT: I think all of us
10 had tried to remove that highlighting and it
11 is stuck there.

12 CHAIR GRIFFON: I think that is
13 what it is, yes. I have had that happen, yes.
14 It is permanent highlighting.

15 MEMBER MUNN: Yes.

16 MR. FARVER: 174.1 pretty much has
17 to do with using a K-25 workbook --

18 CHAIR GRIFFON: Wait, 174.1?

19 MR. FARVER: Yes.

20 CHAIR GRIFFON: Yes. Go ahead.

21 MR. FARVER: -- a K-25 workbook
22 for a Portsmouth case, and there was an error

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1 in the workbook apparently. Anyway, the final
2 action was for NIOSH to review all the
3 Portsmouth cases, other Portsmouth cases used
4 with this tool that have the same error.

5 MEMBER MUNN: But there were only
6 four.

7 MR. FARVER: There were only four.
8 None of the other three used the K-25
9 workbook and were not impacted by this issue.

10 So, the only thing we are going to
11 come back with is, okay, is there some
12 guidance now for what they used for
13 Portsmouth? Is there a Portsmouth workbook?
14 Or is there something that says don't use K-25
15 workbook? So, we don't have this come up
16 again.

17 CHAIR GRIFFON: And maybe they
18 have done that. Has that been done, Scott or
19 anyone?

20 MR. SIEBERT: Just a second here;
21 I'm looking.

22 MEMBER MUNN: So, what is he

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1 questioning? Are you questioning why they
2 used the best estimate workbook?

3 MR. FARVER: No, no, what is in
4 place now so that it doesn't happen again. In
5 other words, we have four cases and only one
6 of them used a different workbook, and we have
7 a problem with that. So, now what is in place
8 so that doesn't happen again?

9 MEMBER MUNN: Okay.

10 MR. FARVER: In other words, if
11 there is not a specific workbook for
12 Portsmouth, is there specific guidance on what
13 workbook to use for Portsmouth?

14 MR. SIEBERT: I am going to have
15 to send a message to the tool folks and find
16 out. I should be able to get an answer by
17 today, so we will be able to come back to this
18 one.

19 CHAIR GRIFFON: Okay. We will put
20 that one on hold.

21 All right. Moving on, 175.1, is
22 there anything? Yes.

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1 MR. FARVER: Okay. This is
2 another case that Kathy reviewed, reviewed a
3 reworked case and compared it to the original.

4 So, for 175.1, the DR report did
5 not properly account for all missed neutron
6 dose.

7 CHAIR GRIFFON: And to refresh my
8 memory, the reason was they got the records in
9 the middle, kind of?

10 MR. FARVER: Yes.

11 CHAIR GRIFFON: They hadn't
12 received these records from DOE? And then,
13 they got more records.

14 MR. FARVER: They were received
15 afterwards.

16 CHAIR GRIFFON: Yes, and then,
17 they were used in the rework?

18 MR. FARVER: They were used in the
19 rework and considered in the rework. And so,
20 we are closing that one --

21 CHAIR GRIFFON: Yes. Okay.

22 MR. FARVER: -- because the rework

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1 corrected it.

2 CHAIR GRIFFON: That seems
3 reasonable.

4 MEMBER MUNN: That is -- give me
5 that case number again.

6 CHAIR GRIFFON: 175.1.

7 MR. KATZ: 175.1.

8 MEMBER MUNN: 175.1?

9 CHAIR GRIFFON: Is closed.

10 MEMBER MUNN: In which the last
11 entry we had was December of 2011?

12 MR. FARVER: Yes, that's right.

13 MEMBER MUNN: Yes. Okay.

14 CHAIR GRIFFON: Actually, well,
15 other than your recent one, right, the
16 February 2nd?

17 MR. FARVER: Right.

18 CHAIR GRIFFON: Okay. Moving on.

19 MR. FARVER: 175.2, we didn't feel
20 they applied the appropriate hypothetical
21 internal dose model when they did the rework.
22 They used the more contemporary dose model,

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1 OTIB-18 rather than OTIB-2. And therefore, we
2 suggest closing that finding.

3 CHAIR GRIFFON: What did you say
4 at first, that you didn't think they used the
5 appropriate --

6 MR. FARVER: Yes, this was we were
7 maximizing the award. Yes, they didn't use
8 the appropriate hypothetical internal dose
9 model. They used OTIB-2.

10 MR. HINNEFELD: OTIB-2 had what,
11 four choices?

12 MR. FARVER: Yes.

13 MR. HINNEFELD: It was like
14 reactor and non-reactor, uranium or not
15 uranium.

16 CHAIR GRIFFON: Oh, yes, yes.

17 MR. FARVER: Right.

18 MR. STIVER: In the rework, they
19 used the TIB-18.

20 CHAIR GRIFFON: Okay. So, you are
21 recommending close?

22 MR. FARVER: Yes.

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1 CHAIR GRIFFON: And it seems
2 reasonable. Alright. Closed. 175.2 is
3 closed.

4 And 175.3?

5 MR. FARVER: NIOSH failed to
6 properly address all information submitted by
7 the EE during the CATI.

8 And then, they start off over in
9 the yellow column and it goes on for a ways.
10 Basically, our action was to compare the
11 reworked case with the original case. At the
12 time of the rework, NIOSH was considering the
13 absence of internal bioassay monitoring under
14 an SEC. With regard to external dose, the DOE
15 provided additional dosimetry data that was
16 used in the reworked case. And all other
17 external doses were maximized. Therefore,
18 this finding is no longer relevant.

19 CHAIR GRIFFON: Yes, that makes
20 sense, yes.

21 MR. FARVER: Yes, so we are
22 closing it.

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1 CHAIR GRIFFON: Closed. Okay.

2 MEMBER MUNN: That sounds like an
3 excellent response. Why do I not have a copy
4 of it somewhere?

5 CHAIR GRIFFON: We are looking at
6 that last -- do you have the last one that was
7 sent out, Wanda?

8 MEMBER MUNN: Well, I thought I
9 did. I thought I was looking at what just
10 came out yesterday, today.

11 CHAIR GRIFFON: Today.

12 MEMBER MUNN: I thought that is
13 what I am looking at.

14 CHAIR GRIFFON: And you don't show
15 in the blue a 2/2/13 response from SC&A?

16 MEMBER MUNN: So, I must not have
17 the right copy. Okay.

18 MR. STIVER: Wanda, it should be
19 the one that I sent you about an hour ago.

20 MEMBER MUNN: Okay.

21 MR. KATZ: Page 107.

22 CHAIR GRIFFON: That's all right.

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1 We are almost done with these.

2 MEMBER MUNN: Well, I didn't have
3 that back when I checked even the second time.

4 So, I will try it one more time.

5 CHAIR GRIFFON: So, are we done
6 with the regular --

7 MR. STIVER: We are done with the
8 regulars.

9 CHAIR GRIFFON: We are on to the
10 attachments?

11 Alright. Can I ask can we take a
12 10-minute break, so I can visit that new -- I
13 haven't been here since that new, little
14 coffee bar came.

15 (Laughter.)

16 MR. KATZ: Yes.

17 CHAIR GRIFFON: Are they open all
18 day?

19 MR. KATZ: I don't know.

20 CHAIR GRIFFON: I need coffee.

21 MR. KATZ: A 10-minute break?

22 CHAIR GRIFFON: So, let's take 10

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1 minutes and we will start with the
2 attachments.

3 And, Wanda, you can find the email
4 by the meeting, hopefully.

5 MEMBER MUNN: It wasn't on my CDC
6 email the last time I checked a half-hour ago.
7 Thanks.

8 CHAIR GRIFFON: Alright. Ten
9 minutes.

10 (Whereupon, the above-entitled
11 matter went off the record at 10:13 a.m. and
12 resumed at 10:27 a.m.)

13 MR. KATZ: Scott, are you back on
14 the line?

15 MR. SIEBERT: I am.

16 MR. KATZ: Great.

17 CHAIR GRIFFON: Okay. Ready to
18 start back up, and we are moving into the
19 eighth set with the attachments, which I think
20 the first one is the Bridgewater Brass one,
21 correct?

22 MS. ROLFES: Bridgeport Brass.

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1 CHAIR GRIFFON: Bridgeport Brass.
2 I'm sorry.

3 MR. FARVER: Correct. Attachment
4 1 is the Bridgeport Brass.

5 CHAIR GRIFFON: Bridgeport Brass.

6 So, Doug, you can start. I am
7 sure John is probably going to weigh in a
8 little bit.

9 MR. FARVER: Okay.

10 CHAIR GRIFFON: But take us
11 through this.

12 MR. FARVER: Now NIOSH had a
13 response from April of 2011 that was not
14 included in the matrices that was going
15 around. So, I included it in here on this one
16 that I sent out.

17 CHAIR GRIFFON: Okay.

18 MR. FARVER: It just provides a
19 little bit more background information.

20 CHAIR GRIFFON: When you say, see
21 attached response, where is your attachment?

22 MR. FARVER: Oh, it is at the very

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1 end.

2 DR. MAURO: Yes, I could help with
3 this -- I am quite familiar with it -- if you
4 would like.

5 MEMBER CLAWSON: Okay. Take it
6 away, John.

7 DR. MAURO: Yes. Let me just
8 march through these.

9 CHAIR GRIFFON: Well, first, your
10 attached response is all the way at the end of
11 the matrix? Is that --

12 DR. MAURO: Yes, if you scroll
13 down to the bottom, you will see --

14 CHAIR GRIFFON: Okay.

15 DR. MAURO: -- a write-up that was
16 prepared by Harry that goes through many of
17 the issues that we will be talking about.

18 CHAIR GRIFFON: Okay.

19 DR. MAURO: The more important
20 ones, in fact.

21 CHAIR GRIFFON: Alright.

22 DR. MAURO: Okay?

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1 CHAIR GRIFFON: Alright. Go
2 ahead, John.

3 DR. MAURO: Okay. The first issue
4 that came up, No. 1, had to do with the
5 airborne sampling data. Bridgeport Brass was
6 a facility -- there was really a couple of
7 labs, one in Michigan and one in Connecticut,
8 that rolled the uranium and thorium as an AWE
9 facility.

10 In order to do internal doses, the
11 Site Profile, the exposure matrix for the
12 facilities made use of data -- I believe it
13 might have been some bioassay or hair-sampling
14 data -- that were collected in the '60-61 time
15 period and were used to extrapolate back to
16 reconstruct internal doses for earlier years.
17 And our concern was, can you do that?

18 NIOSH responded back and said, I
19 think we can because, though we only have a
20 limited amount of data in the early years, the
21 data seems to indicate that, related to this,
22 if there had been more data, it would show

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1 that the later years were really limiting.
2 This is a little unusual because you know it
3 is usually the reverse.

4 So, what we did is -- and that is
5 what the blue little indicator is, if you go
6 to the back of this, and I can give you the
7 30-second sound bite. We went back to the
8 SRDB, pulled some records, did some data
9 review, data adequacy/completeness analysis.
10 And, lo and behold, without a doubt, the later
11 concentration numbers with relatively abundant
12 data were, in fact, clearly limiting compared
13 to the earlier years.

14 So, we concluded on that basis
15 that, unlike at other locations, other
16 facilities that we worked with, especially AWE
17 facilities, in this particular facility, using
18 the little bit later data in the early sixties
19 and to extrapolate back is claimant-favorable.

20 So, on that basis, we would
21 recommend that this issue on Bridgeport Brass
22 be closed.

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1 And the data is back there. You
2 could take a look, if you go back, at the
3 summary in the back, to Harry's work. You see
4 the workup is actually the data there.

5 CHAIR GRIFFON: John, looking at
6 the table you have there, the B, BRA3 --

7 DR. MAURO: Yes.

8 CHAIR GRIFFON: -- they are
9 showing 146 people were studied in that. I
10 mean, the maximum weighted exposure was
11 exactly the same as the number of people? Or
12 is that just a coincidence?

13 DR. MAURO: No, there is number of
14 personnel studied.

15 CHAIR GRIFFON: Yes.

16 DR. MAURO: Okay. We have, yes --

17 CHAIR GRIFFON: It is just a
18 coincidence, I guess?

19 DR. MAURO: Yes, but I guess the
20 important point is the concentrations.

21 CHAIR GRIFFON: Yes.

22 DR. MAURO: Yes, that were

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1 observed in 1960 --

2 CHAIR GRIFFON: Yes.

3 DR. MAURO: -- versus, let's say,
4 '56. If you actually move down, that is what
5 brought us to the point.

6 CHAIR GRIFFON: Sure.

7 DR. MAURO: Clearly, there are
8 more personnel there, but the amount of data
9 we had was much less. In the earlier years,
10 they were taking maybe one or two samples a
11 year, while in the later years they were
12 taking more like 9-10 urine samples a year.
13 And it is for that reason there is a richer
14 dataset in the later years, and they came out
15 with higher concentrations also. So, we felt
16 that did the trick for us.

17 But I see your question, the 146
18 versus the 17. I don't have an answer to
19 that.

20 CHAIR GRIFFON: Well, and, also,
21 the 146 and the 146. I mean, it is just a
22 coincidence that the disintegrations per

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1 minute per meter cubed is exactly the same as
2 the number of --

3 DR. MAURO: I would have to say I
4 don't have an answer to that.

5 CHAIR GRIFFON: Alright. I just
6 didn't know if that was like you put the wrong
7 number in the wrong field or something like
8 that.

9 DR. MAURO: Yes, it is possible.
10 We could certainly go back to the original
11 workup that Harry did and check things out, if
12 you would like.

13 CHAIR GRIFFON: I mean, I don't
14 know. I guess I don't have so many questions
15 on that, except that if you had 146 people
16 studied, I understand you are saying -- that
17 must have been across the board, right? It
18 must have been everybody at the plant or
19 something?

20 DR. MAURO: Well, I believe that
21 they are only taking about one sample a year
22 for each person --

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1 CHAIR GRIFFON: Yes.

2 DR. MAURO: -- in the early years,
3 while in the later years they were taking a
4 lot more samples per person.

5 CHAIR GRIFFON: I mean, I am sure
6 you have this in your --

7 DR. MAURO: Yes, we could pull
8 this out.

9 CHAIR GRIFFON: -- richer write-
10 up, but you have 17 people. How many samples?
11 It is a lot more samples you are saying?

12 DR. MAURO: Yes. Yes.

13 CHAIR GRIFFON: Yes.

14 DR. MAURO: In fact, the write-up,
15 if you read the write-up -- it might be right
16 in here -- the shift that occurred was the
17 number of samples collected per year per
18 worker was much higher in the 1960 timeframe
19 than it was in the '56 timeframe. And the
20 results, also, in the dpm -- well, this is air
21 sample, but there was also bioassay sample.

22 So, I guess that is the best I can

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1 do at this time.

2 CHAIR GRIFFON: Yes, yes. And you
3 are confident that the reason they went down
4 to 17, they honed in on the more-likely-
5 exposed people? Is that the sense you have
6 or --

7 DR. MAURO: I am sorry, I can't --

8 CHAIR GRIFFON: Okay.

9 DR. MAURO: I can't be that
10 specific. As I said, we could actually pull
11 together the report. It may very well be on
12 file.

13 What we have captured here was the
14 essence of it. And certainly, we could have
15 done a better job in telling the full story,
16 but I would have to run down the full report
17 that we did.

18 In effect, what we were trying to
19 do here is confirm the statement made by NIOSH
20 that the concentrations were higher in the
21 later years where we had more data. So,
22 extrapolation back seemed to be reasonable.

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1 And we went and checked that independently and
2 ran down the SRDB reports and confirmed that.

3 I guess that is about the level of
4 granularity I can give you at this time.

5 MEMBER CLAWSON: Hey, Mark.

6 CHAIR GRIFFON: Yes?

7 MEMBER CLAWSON: Looking at this,
8 I am just reading a little bit here, and it is
9 talking about there is a total of 14 different
10 types of uranium handlers investigated, and
11 then it goes into a total of nine job
12 categories that were studied, meaning that
13 there was other -- were there other ones that
14 they excluded out of this?

15 MEMBER MUNN: That was what HASL
16 85 did.

17 MEMBER CLAWSON: Okay.

18 CHAIR GRIFFON: Right, which is
19 what we have to work with.

20 MEMBER MUNN: Yes.

21 CHAIR GRIFFON: Yes. And, yes, I
22 had the same question, Brad. It seems like

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1 they honed in on job categories that were most
2 likely exposed, I would guess.

3 MEMBER CLAWSON: Right. That was
4 what I was trying to get the feel; are these
5 the highest exposed or --

6 CHAIR GRIFFON: Yes. I mean, that
7 is the guess I would have, but I don't know.
8 John said he wasn't sure.

9 DR. MAURO: Yes, I can't speak to
10 that until I go back to the original work.

11 CHAIR GRIFFON: Right.

12 MEMBER MUNN: The write-up says
13 they calculated the exposures of individuals
14 rather than using the collection of exposure
15 readings, irrespective of identity. And so,
16 it spanned a wider range than that of the
17 collective distribution. So they looked at
18 what they considered the widest possible range
19 of workers.

20 CHAIR GRIFFON: Well, yes, I think
21 that is just SC&A's analysis of the data.

22 MEMBER MUNN: Yes, it was.

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1 CHAIR GRIFFON: Yes, yes.

2 MEMBER MUNN: That is correct.

3 CHAIR GRIFFON: Individual versus
4 collective distribution, I guess, yes.

5 MEMBER MUNN: Correct.

6 MR. STIVER: Mark, would you like
7 us to track down that report for you?

8 CHAIR GRIFFON: I mean, do others
9 have comments on that?

10 MEMBER CLAWSON: I, myself, I
11 would actually like to --

12 CHAIR GRIFFON: Yes.

13 MEMBER CLAWSON: I understand
14 where they are going out with this.

15 CHAIR GRIFFON: Yes.

16 MEMBER CLAWSON: And I understand
17 the recommendation. But, unfortunately, some
18 of the numbers don't quite jibe to me. I
19 would like to be able to see the actual whole
20 report.

21 MR. HINNEFELD: When you say full
22 report, do you mean the report that Harry --

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1 MEMBER CLAWSON: Yes, Harry --

2 MR. STIVER: SC&A has reviewed it
3 after HASL 85, is what you are saying. It is
4 HASL 85. We have got an SRDB citation for it
5 right here.

6 CHAIR GRIFFON: Yes. No, more of
7 the full SC&A write-up I think is what you are
8 after right now, isn't it?

9 MEMBER CLAWSON: That is all I
10 want, yes.

11 CHAIR GRIFFON: Yes.

12 MR. STIVER: John, this is Stiver.
13 Could you get a hold of Harry --

14 DR. MAURO: Sure.

15 MR. STIVER: -- or maybe Nancy,
16 and see if we can track that report down --

17 DR. MAURO: Yes.

18 MR. STIVER: -- and send it to the
19 Work Group?

20 DR. MAURO: I will take care of
21 it.

22 MR. STIVER: Okay. Great.

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1 Thanks.

2 CHAIR GRIFFON: Assuming we are
3 okay with that, that takes us through a lot of
4 the findings, right, on --

5 DR. MAURO: No.

6 CHAIR GRIFFON: Or they are
7 different, separate issues? Okay.

8 DR. MAURO: No, they are
9 substantive --

10 CHAIR GRIFFON: Okay. Okay.

11 DR. MAURO: -- substantially
12 different issues.

13 CHAIR GRIFFON: All right.

14 DR. MAURO: For example, the next
15 one, Finding 2, is different in nature.

16 CHAIR GRIFFON: Okay. So, let's
17 go on to that for now, Finding 2, yes.

18 DR. MAURO: Yes, and I will try to
19 be brief on this.

20 Now this case has to do with
21 external exposure and something that is
22 referred to as correlated versus uncorrelated

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1 data when you are building a coworker model.

2 CHAIR GRIFFON: Yes.

3 DR. MAURO: Okay. The best way I
4 think about it is let's say you have 100
5 people, and each person had one measurement
6 taken a month, okay, a film badge reading.
7 So, in theory, what you have got here is 100
8 people times 12. You have 1200 numbers, let's
9 say, in a given year.

10 What you can do is, let's say you
11 pooled all those numbers together. So, you
12 have these 1200 numbers in a pool with no
13 personal identifiers. And you said, okay, I
14 am going to use these data to build a coworker
15 model for the workers I don't have data for.
16 But, certainly, for the workers I do have
17 data, I could use the data to reconstruct
18 their external doses.

19 But if I don't have data for some
20 people and I want to build a coworker model, I
21 am going to take these 1200 numbers, and I am
22 going to go in and, since they are monthly

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1 readings -- now it turns out I think they were
2 more than monthly, but let's just, for the
3 sake of the understanding conceptually it was
4 done.

5 You go in and you say, well, that
6 means for any given worker, there are 12
7 readings. So, let's go in and randomly pick
8 from the 1200 numbers 12 and add them up, and
9 that would give you one random estimate of
10 what a person's dose would be for the year.

11 Then, I go in and do it again, and
12 I do it again, and I do it again. And in the
13 end, you have got a collection of annual
14 doses, if you are following me, that are taken
15 from this pool. And then, you plot that and
16 you pick off the upper 95th percentile. Okay?
17 Stay with me.

18 This would be considered
19 uncorrelated data. That is, you have taken
20 the pool of numbers, you are not assigning
21 them to any people, and just pulling numbers
22 out. Alright?

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1 We reviewed the coworker model
2 that was done. At the time we did the review,
3 NIOSH claimed that they did an uncorrelated --
4 I'm sorry. Correlated would be I don't
5 randomly go in and I sort them by people. I
6 say, no, I am going to take Person No. 1, take
7 his monthly readings. That is Person No. 1.
8 That is his dose. And then, Person No. 2,
9 that is his dose. That would be correlated.
10 That is, I am grouping the numbers by people.

11 From there, I would have these 100
12 people, each one with their real annual dose.

13 And that would be a different way to come at
14 the problem. And then, I would take that real
15 annual dose or real people and plot that and
16 pick off the 95th percentile.

17 So, when we reviewed NIOSH's work,
18 we believed that they processed the
19 information as if it was uncorrelated. And
20 that is important because, if you actually
21 have a group of people that tend to have the
22 highest exposures, by doing it uncorrelated,

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1 you are not going to get a good representation
2 of the spread.

3 So, we expressed concern that we
4 think their coworker model where they said, we
5 went through this process and picked off the
6 upper 95th percentile, and are using that as
7 our coworker model, we went ahead and checked
8 that both using a correlated approach and an
9 uncorrelated approach. And we ended up coming
10 up with exposures that were twice those of
11 NIOSH. We felt that there was something wrong
12 with the way they did their work.

13 Well, it turns out we went back
14 and re-performed the analysis, taking each
15 person where we had data. And say let's take
16 Person No. 1. Let's get his annual dose.
17 Let's get Person No. 2.

18 And the outcome was a graph that
19 you could see in the plot. It turns out, when
20 you pick off the upper 95th percentile, we
21 rechecked the numbers, basically. We went
22 back and redid them and said let's do it by

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1 correlated approach, pick off the upper 95th
2 percentile, and see how different that is for
3 the 95th percentile that NIOSH is using. And
4 it turns out that we ended up matching their
5 number.

6 So, after revisiting the issue, we
7 concluded that NIOSH was correct all along,
8 and we are recommending that we close this
9 issue.

10 MEMBER MUNN: Wonderful. That
11 explains why I was so pleased when I saw that
12 graph.

13 DR. MAURO: Yes.

14 MEMBER MUNN: Yes.

15 DR. MAURO: And we believe it is
16 the right way to do it for building a coworker
17 model for external exposures.

18 MEMBER MUNN: Wonderful.

19 DR. MAURO: I hope that everybody
20 understood that. That statistics stuff always
21 shakes me up a bit.

22 MEMBER KOTELCHUCK: And in the

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1 end, NIOSH chose which model?

2 DR. MAURO: Yes. We thought, I
3 have to say we thought that they did an
4 uncorrelated analysis. In fact, they came up
5 with this number. And when we checked it, we
6 went through it and did our own statistical
7 workup in our own way. If the numbers were
8 correlated -- we didn't actually do it by
9 person.

10 So, when we originally did our
11 check, there are certain statistical
12 techniques that many of you may be familiar
13 with. And if Harry was on the line, I am sure
14 he could explain it better than I could. But
15 there are statistical techniques where you
16 could take your population of 1200 film badge
17 readings and establish some degree of
18 correlation between numbers, higher numbers
19 and lower numbers, as if there is a
20 relationship between them.

21 And he processed them as if they
22 were correlated. He ended up coming up with

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1 an upper 95th percentile dose when he treated
2 the data as if it was correlated, with a value
3 that was twice that that NIOSH selected for
4 its coworker model. So, we felt that maybe
5 NIOSH did something wrong, that they didn't
6 really use a correlated approach to the data
7 processing.

8 When NIOSH came back and said, no,
9 no, we did, and it's right, we said, hmm, you
10 know, we have another way to check this. And
11 the way we will check it is we will actually
12 go get the people, you know, not use a
13 statistical method, but let's go grab the
14 people and rank them and plot them. And when
15 we did that, we got their numbers.

16 MEMBER KOTELCHUCK: Okay. Good.

17 CHAIR GRIFFON: So, what was the
18 number? NIOSH's number is about 110. Is
19 that --

20 DR. MAURO: It might be here. I'm
21 not sure. The actual result, the annual dose,
22 you mean? The upper 95th percentile --

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1 CHAIR GRIFFON: Yes.

2 DR. MAURO: Yes, it has got to be
3 here somewhere. I actually have the report
4 here. I could probably run it down. Let's
5 see what we have got here.

6 CHAIR GRIFFON: You have 95th
7 doing it two different ways. You get 122 and
8 108. So, NIOSH's was consistent with that?

9 DR. MAURO: Mark, as usual, you
10 are ahead of me. I would have to go back and
11 do a little more homework.

12 CHAIR GRIFFON: Oh, no, this is
13 just in the bottom of the --

14 DR. MAURO: Oh, the report?

15 CHAIR GRIFFON: The very bottom of
16 your attachment, yes. Page 129.

17 DR. MAURO: Okay. Let me get my
18 hard copy real quick.

19 CHAIR GRIFFON: Yes, the Table 1,
20 right below the graph.

21 DR. MAURO: Here we go. Let's
22 see.

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1 CHAIR GRIFFON: I assume that is
2 the data that you are talking about --

3 DR. MAURO: Yes, yes.

4 CHAIR GRIFFON: -- that when you
5 went back and did it -- yes.

6 DR. MAURO: Okay.

7 CHAIR GRIFFON: So, 108 compared
8 well with what NIOSH had reported. Is that
9 what you are saying?

10 DR. MAURO: Yes.

11 CHAIR GRIFFON: Okay. Instead of
12 being like a doubling factor?

13 DR. MAURO: Exactly.

14 CHAIR GRIFFON: Okay. Alright.

15 DR. MAURO: Okay. Let's see. We
16 could go on to --

17 CHAIR GRIFFON: Well, this one I
18 am more comfortable -- I mean, I don't know if
19 others have comments on this, but this one I
20 am more comfortable closing, with what we
21 have.

22 MR. STIVER: Yes, it kind of makes

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1 more sense because --

2 CHAIR GRIFFON: Yes.

3 MR. STIVER: -- the median is
4 quite a bit higher --

5 CHAIR GRIFFON: Yes, yes.

6 MR. STIVER: -- even with the 95th
7 percentile, you know, depending on the amount
8 of error.

9 CHAIR GRIFFON: Right, right.

10 MR. STIVER: It is a little lower,
11 actually.

12 CHAIR GRIFFON: Yes.

13 MEMBER MUNN: I am certainly
14 pleased with it. Closing it is logical to do.

15 MR. KATZ: Okay. Closed.

16 CHAIR GRIFFON: Yes.

17 MR. KATZ: Good.

18 CHAIR GRIFFON: So, that is
19 Attachment 1, Finding 2, closed.

20 Okay. John, go ahead on to the
21 next one, then.

22 DR. MAURO: Okay. This is we are

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1 in Attachment 1. What finding?

2 CHAIR GRIFFON: No. 3.

3 MR. FARVER: No. 3, I am not sure
4 we received a response from NIOSH to begin
5 with on Finding 3, but John might have some
6 more information on anything he knows about
7 Finding 3.

8 MR. SIEBERT: This is Scott.

9 The finding should be --

10 MEMBER MUNN: Localized exposures.

11 MR. SIEBERT: Wait a minute.
12 Sorry. I was going to a different one. Never
13 mind.

14 DR. MAURO: This is extremities,
15 hands, forearms exposures.

16 MR. SIEBERT: Correct.

17 DR. MAURO: I don't have any
18 additional information over and above what is
19 here in the matrix regarding the status of
20 this. Namely, I guess we were expecting a
21 report.

22 MEMBER MUNN: And it reflects

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1 NIOSH was expecting you to conduct the --

2 DR. MAURO: Well, in the matrix
3 that I am looking at, and this is what I am
4 going by, the last entry, this blue item that
5 is dated February 2nd, 2013. SC&A has not
6 received NIOSH's initial response of its
7 finding. So, I believe that is the latest
8 position, as we understand it.

9 MR. STIVER: I could not find any.

10 MEMBER MUNN: No, I think that is
11 the wrong finding. Or maybe I am looking at
12 the wrong finding.

13 CHAIR GRIFFON: No, there is --

14 MEMBER MUNN: Attachment 1,
15 Finding 3, March 2012, says NIOSH/ORAU notes
16 from the December 11th meeting, indicate that
17 SC&A will conduct additional review.

18 CHAIR GRIFFON: Yes, I think you
19 are still looking at the old Version 1. That
20 is in there, but, then, SC&A added another
21 comment.

22 MEMBER MUNN: Well, I see it over

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1 in the other column, right.

2 CHAIR GRIFFON: Yes, yes.

3 MR. SIEBERT: This is Scott again.
4 There is an April 2009 SC&A White Paper named
5 SC&A Follow-up to NIOSH's Responses to
6 Bridgeport Brass Site Profile Review Findings.
7 And the original responses appear to be in
8 that.

9 CHAIR GRIFFON: Can you forward
10 that to everyone, Scott? Yes, because I
11 think, even if we have it, we might need to
12 re-get it, right? It may have been sent, but
13 at this point I think we just need to
14 distribute it, yes. So, Scott, can you
15 forward that to folks?

16 Alright. Going on to Finding 4, I
17 assume Scott is going to forward that. I
18 didn't hear.

19 MR. SIEBERT: Yes.

20 CHAIR GRIFFON: Okay. Thanks.

21 MR. SIEBERT: Yes.

22 CHAIR GRIFFON: Yes.

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1 DR. MAURO: Yes, with regard to
2 Finding 4, this is linked back to this concern
3 we had regarding the external-dose business.
4 When Harry reviewed the data, he said one of
5 the problems you always run into when you try
6 to fit data to a log-normal distribution and
7 there is a lot of scatter, one of the things
8 you like to ask yourself is, if there is a lot
9 of scatter, and there may be some numbers
10 which you consider to be an outlier that you
11 may or may not trust, you leave it out and you
12 redo your geometric mean, standard deviation,
13 et cetera, to see how it affects the results.

14 So, he called this a leave-one-out analysis.

15 And he suggested at the time -- if
16 I had had the presence of mind, I would have
17 called Harry this morning -- he suggested at
18 the time, why don't you do a leave-one-out
19 analysis and see how important they are. That
20 is, in terms of affecting the results of your
21 distribution.

22 But it turns out that, after we

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1 did that re-analysis that we talked about
2 before with the curve, there weren't any
3 outliers to speak of. So, the outcome meant
4 that, well, listen, if we really don't have
5 any outliers when we do it this way, you know,
6 doing the individual workers and say annual
7 dose for this worker, annual dose for this
8 worker, et cetera, there were really no
9 outliers and they fit that log-normal pretty
10 nicely.

11 So, as a result, we concluded that
12 the whole issue related to leaving one out
13 goes away, and our recommendation is to drop
14 it. That's it.

15 CHAIR GRIFFON: Yes, I am
16 satisfied with that.

17 DR. MAURO: Yes.

18 CHAIR GRIFFON: Others?

19 MEMBER KOTELCHUCK: Fine.

20 CHAIR GRIFFON: Yes, that sounds
21 good. Okay.

22 MR. KATZ: Closed.

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1 CHAIR GRIFFON: Finding 5.

2 DR. MAURO: Five, I think.

3 CHAIR GRIFFON: That was done,
4 right?

5 DR. MAURO: That was done, yes.

6 CHAIR GRIFFON: Yes. So, Finding
7 5(a).

8 DR. MAURO: Oh, well, we know what
9 this is. This is the residual period --

10 CHAIR GRIFFON: Oh, yes.

11 DR. MAURO: -- resuspension factor
12 issue --

13 CHAIR GRIFFON: Yes.

14 DR. MAURO: -- with 10 to the
15 minus 6, which we have been struggling with
16 for a long time.

17 CHAIR GRIFFON: We love this one.

18 DR. MAURO: And I don't think it
19 is still entirely resolved.

20 For those of you who haven't been
21 involved in this, this is one of these
22 overarching issues that I believe -- and

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1 certainly, if anyone wants to correct me -- I
2 believe there is agreement that there are
3 times when it makes sense, when you are
4 dealing with residual radioactivity on the
5 surface and you are concerned about it
6 becoming resuspended and inhaled through
7 people walking around and vehicles and stuff,
8 there are resuspension factors which relate
9 the activity in the air to the activity that
10 is on the surface.

11 For the longest time, SC&A has
12 been concerned that the standard number used
13 by NIOSH to derive airborne dust-loading,
14 given the dust-loading on the surface, a value
15 which is 10 to the minus 6, it is basically 10
16 to the minus 6 picocuries per cubic meter in
17 the air per picocurie per meter squared on the
18 surface. It is an empirical relationship.
19 For the longest time, we felt that 10 to the
20 minus 6 looked low.

21 And after lots and lots of
22 discussion and data acquisition and review, I

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1 think we have come to an agreement. And that
2 is, when the site is relatively clean and has
3 been cleaned up, there still may be some
4 residual radioactivity, but most of the
5 removable material has been removed, the 10-
6 to-the-minus-6 number is a good number.

7 However, if you have got a really
8 dirty place, which does occur, especially in
9 the early years of AWE facilities, that 10-to-
10 the-minus-6 number may not be a very good
11 number, and you might be better off with
12 something like 10 to the minus 5.

13 And I believe NIOSH has actually
14 memorialized this and has taken that position
15 in OTIB-70, the latest revision to it.
16 Correct me if I am wrong. And so, there is a
17 new paradigm where there is sort of -- I guess
18 we have converged on how to deal with this
19 problem.

20 And so, the question, then, really
21 becomes with regard to this issue, for
22 Bridgeport Brass, are we dealing with a

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1 circumstance where the 10 to the minus 6 might
2 work out pretty good if it was relatively
3 clean and they cleaned up after their
4 operations? Or it was a pretty dirty place,
5 such as, oh, Bethlehem Steel, where you had
6 lots of residual uranium on surfaces that
7 could easily be resuspended.

8 I am not in a position at this
9 point in time to answer that question. I
10 haven't looked closely enough at Bridgeport
11 Brass in some time to say whether the 10 to
12 the minus 6 might be okay or might not.

13 But I think all I could say right
14 now is that the 10-to-the-minus-6 issue is a
15 generic issue that was overarching. It has
16 been resolved to, I believe, everyone's
17 satisfaction in OTIB-70 in its latest version.

18 And unfortunately, right now, the question
19 becomes, well, what does that mean to this
20 issue as it applies to Bridgeport Brass? And
21 I am really not in a position right now to
22 say, in my opinion, whether I think we are

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1 dealing with a relatively clean or relatively
2 dirty place.

3 MEMBER MUNN: Based on the
4 conversations we have had in the Subcommittee,
5 John's synopsis is pretty accurate.

6 MR. KATZ: Right.

7 MEMBER CLAWSON: So, I guess the
8 question I have is, how are we going to be
9 able to apply it to this?

10 DR. MAURO: I have to apologize.
11 If I had had the presence of mind, again, to
12 go back to the Bridgeport Brass data and
13 review it and their practices, you know, I
14 might be in a better position to advise it
15 looks like this might have been a dirty place
16 or not. But I really don't have that
17 information for you at this time.

18 MR. HINNEFELD: I don't know for
19 sure, but this question may be one of the
20 things addressed by the Bridgeport Brass TBD
21 revision. Didn't we talk about that earlier
22 on? That there is a revision that is -

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1 MR. KATZ: Right.

2 MR. HINNEFELD: -- going through
3 DOE's final approval for public release. The
4 reason I say that is that we have modified
5 other documents for this specific purpose, to
6 incorporate the agreement that was reached on
7 TIB-70 into the Site Profile document. So, I
8 suspect it was addressed in that.

9 So, I believe, to complicate
10 matters further at Bridgeport Brass, there has
11 been a change in the designation of one of the
12 two facilities from DOL, I believe from an AWE
13 to a DOE facility. So, for that facility, the
14 residual contamination portion goes away. So,
15 it would only apply, if one of the sites
16 remains an AWE, it would pertain to that part.

17 MEMBER CLAWSON: So, when we do a
18 TBD from now on, to be able to effectively
19 implement this OTIB, it will basically call
20 out if it is a clean, relatively clean, or
21 dirty facility?

22 MR. HINNEFELD: It should specify

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1 what, of the TIB-70 avenues -- TIB-70 gives
2 actually various avenues. And it is, you
3 either write one into the TBD or refer to the
4 TIB-70 specifically enough that this is what
5 you would do with it. That is what they
6 should do.

7 MEMBER CLAWSON: Okay. So, when
8 we looked at a TBD, we would be able to see
9 what avenue it was going to -- how they were
10 going to apply the OTIB?

11 MR. FARVER: And this relates to
12 AWEs.

13 MR. HINNEFELD: Residual
14 contamination periods only exist for AWEs.

15 MR. FARVER: Yes. But is this
16 resuspension factor an issue for other DOE
17 facilities?

18 MR. HINNEFELD: Well, not in the
19 same fashion because in a residual
20 contamination period where there is no
21 radiological work going on ---

22 MR. FARVER: Is it handled the

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1 same way? I mean, can a TBD say, for a DOE
2 facility like it would be for an AWE facility?

3 MR. HINNEFELD: Well, it is not
4 likely because you are going to need to
5 continue to have active operation in a DOE
6 facility. And so, you will not have the
7 situation where you just have a residual with
8 resuspension being the primary exposure
9 method.

10 So, if you are in an operating
11 activity, you would have bioassay data, which
12 would include it all, all the intakes, or air
13 sampling, which would include it all, or
14 things like that. So, I don't see it arising
15 in a TBD.

16 MR. FARVER: Okay. Because I
17 remember mainly it was an AWE issue.

18 MR. HINNEFELD: Yes, I think it
19 is, yes.

20 MR. STIVER: Yes, you would be
21 forced to use a source term resuspension in
22 order to derive an intake.

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1 MR. HINNEFELD: I don't see how
2 that would --

3 MR. FARVER: And I don't remember
4 it coming up in any of the DOE facility DRs
5 that we looked at.

6 MR. HINNEFELD: Right.

7 MR. STIVER: Well, TIB-70 is
8 specific to the AWE.

9 MR. HINNEFELD: Well, it is
10 specific to residual contamination --

11 MR. STIVER: Yes, residual, which
12 is --

13 MR. HINNEFELD: -- which is
14 specific to AWEs.

15 MR. STIVER: Okay.

16 MR. KATZ: Just to put a coda on
17 this, Mark was asking on the side where this
18 stood with Procedures. Procedures, as you
19 know from the last Board meeting, is starting
20 to report out on its closeouts on procedures,
21 and it has started to report out on TIB-54, I
22 think it was.

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1 MEMBER MUNN: Fifty-two.

2 MR. KATZ: Fifty-two at the last
3 Board meeting. It is going to report out
4 again on that more fully at the next Board
5 meeting and probably some others. And this
6 one may be one, 70. So, the Board will get to
7 hear and understand the closeout of that
8 procedure by the Subcommittee.

9 MEMBER CLAWSON: Just specific to
10 this one, because Bridgeport Brass is kind of
11 the interesting one, especially where you have
12 a facility going to DOE versus AWE, I just
13 wonder about people being able -- between the
14 two or --

15 MR. HINNEFELD: Well, they were in
16 different states.

17 MEMBER CLAWSON: Oh, okay.

18 MR. HINNEFELD: So, normally, we
19 know which one they were at.

20 MEMBER CLAWSON: Okay.

21 MEMBER MUNN: This particular
22 finding is on Harshaw, is it not?

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1 MR. HINNEFELD: No, this is
2 Bridgeport Brass.

3 MEMBER CLAWSON: Bridgeport Brass.

4 MEMBER MUNN: Oh, Bridgeport
5 Brass.

6 CHAIR GRIFFON: It might come up
7 on Harshaw, too.

8 MEMBER MUNN: So, we are deciding
9 5(a)?

10 CHAIR GRIFFON: 5(a), yes.

11 MEMBER MUNN: Okay.

12 DR. MAURO: One of the things I
13 would like to suggest is, in light of the fact
14 that there is a new version of the Bridgeport
15 Brass that I only became aware of now, as a
16 result of participating in this, the fact is
17 even though the big ones we closed out without
18 that -- in other words, we still have, of
19 course, this issue we are talking about, 10 to
20 the minus 6, but what we really have here is
21 we managed to convince ourselves that really
22 most of the issues that we originally raised

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1 we are okay with, you know, without the
2 benefit of looking at the latest version of
3 the Bridgeport Brass.

4 So, I hope the degree to which the
5 Subcommittee feels it might be worth having a
6 look at it, which I don't think would be a
7 very complicated process, just to read it and
8 see how it dealt with these various issues, I
9 would probably do on my own time anyway, you
10 know. I am interested in seeing what it looks
11 like. But it might be worthwhile just closing
12 this loop by saying, yes, we took a look at
13 the new one and there are no surprises;
14 everything looks like it is in order, or there
15 may be a couple of places where we want to mop
16 things up.

17 CHAIR GRIFFON: Yes. No, I think
18 that makes sense. I think most of it is going
19 to be consistent with what you have already,
20 with what we have closed out. So, I don't
21 think it will be a big deal. But I think it
22 is worthwhile, yes.

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1 MEMBER CLAWSON: Well, especially
2 where you have got a new Site Profile that has
3 been reviewed.

4 MR. STIVER: Another way we might
5 possibly do that would be to, you know, in the
6 next set of dose reconstruction reviews, pick
7 one from Bridgeport, just a recent case, if
8 there any available at this time. So, you can
9 kind of do a follow-up kind of in relation to
10 the original mini-Profile review.

11 CHAIR GRIFFON: Yes, I don't know
12 if we have -- yes.

13 MR. HINNEFELD: Well, in this
14 case, we are writing a revision to the Site
15 Profile to resolve findings.

16 CHAIR GRIFFON: Right, out of this
17 case. So, yes.

18 MR. HINNEFELD: The way we do it
19 in the other procedures is, when we revise a
20 technical document, there is a review of the
21 revision to see if the findings were, in fact,
22 addressed by the revision. It seems like that

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1 is what we are doing here. Our revision is
2 just sort of this is our latest response and,
3 then, asking, look, did we, in fact, treat the
4 finding in that revision?

5 I don't see this as any particular
6 big deal at all. I would be surprised if we
7 have any Bridgeport Brass site cases that were
8 done in accordance with the new TBD because it
9 is just coming out.

10 MR. STIVER: Yes, we would have to
11 wait for a year anyway.

12 MEMBER CLAWSON: I don't think you
13 will get any more -- well, all of Bridgeport
14 Brass I think have already been filed, or
15 whatever. I don't think that we --

16 MR. STIVER: Okay.

17 MEMBER CLAWSON: But SC&A still
18 has to review this to make sure that --

19 MR. STIVER: Yes, we are just
20 going to follow up.

21 CHAIR GRIFFON: Yes. Okay.

22 MR. FARVER: It will also take

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1 care of 149.1 because we will go back and be
2 reviewing the TBD, and we should be able to
3 answer 149.1.

4 MR. HINNEFELD: And I just checked
5 and I was correct in that designation
6 business. The one in Michigan has been de-
7 listed as an AWE and will be listed as a DOE
8 facility. So, the whole residual question
9 goes away for Michigan.

10 DR. MAURO: Oh, I didn't hear you.
11 Did you say Bridgeport is being designated as
12 a DOE facility? So, the residual period goes
13 away?

14 MR. HINNEFELD: For one. Only the
15 Michigan part.

16 DR. MAURO: Only the Michigan? I
17 forget which one that is. Adrian?

18 MR. CALHOUN: Adrian.

19 DR. MAURO: Adrian?

20 MR. CALHOUN: Adrian's is
21 Connecticut I believe.

22 MR. HINNEFELD: No, it is Adrian,

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1 Michigan, and it is Havens Lab in Connecticut.

2 MR. CALHOUN: Right.

3 DR. MAURO: Oh, okay.

4 MR. HINNEFELD: Adrian is the one
5 in Michigan. That is the one that is becoming
6 a DOE facility.

7 MEMBER CLAWSON: Yes, and I
8 misunderstood you. I thought it was a
9 building in the next one. Okay. Thank you.

10 CHAIR GRIFFON: Which one is this
11 case from or this, what we are doing now? I
12 thought it said Adrian.

13 MR. FARVER: I thought it was an
14 Adrian.

15 DR. MAURO: There is a Havens Lab
16 and the Adrian Lab. I don't know which one is
17 Michigan and which one is Connecticut off the
18 top of my head.

19 MR. HINNEFELD: Well, Adrian is in
20 Michigan. I just don't know where this
21 case --

22 MR. STIVER: We just don't know

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1 whether Case 149 was from Adrian or --

2 MR. CALHOUN: Oh, oh, I will
3 figure that one out.

4 MS. BEHLING: This is Kathy.
5 It is from Adrian.

6 CHAIR GRIFFON: So, explain that,
7 Stu. Since this one is Adrian, and it is a
8 DOE facility, you don't think this
9 resuspension question is in --

10 MR. HINNEFELD: Well, it won't be
11 pertinent to this claim. But the fact of the
12 matter is the TBD --

13 CHAIR GRIFFON: Right.

14 MR. HINNEFELD: -- the Bridgeport
15 Brass TBD should describe how we will do
16 residual contamination at the Havens
17 Laboratory --

18 CHAIR GRIFFON: Right.

19 MR. HINNEFELD: -- in accordance
20 with TIB-70. It should say which of the
21 TIB-70 things are we going to use at Havens
22 Laboratory in Connecticut.

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1 CHAIR GRIFFON: Okay.

2 MR. HINNEFELD: That is what it
3 should say. Now I am going out on a limb
4 here. I haven't read it.

5 CHAIR GRIFFON: The TBD is
6 covering both facilities?

7 MR. HINNEFELD: I am pretty sure
8 it did.

9 CHAIR GRIFFON: Okay. Okay. I
10 wasn't sure on that.

11 MR. STIVER: Yes, it is kind of an
12 overarching, generalized mini-review of the
13 Site Profile.

14 CHAIR GRIFFON: All right.

15 MR. CALHOUN: And if the Adrian
16 facility, if what is currently listed as the
17 AWE period now remains the operational
18 period --

19 MR. HINNEFELD: The DOE
20 operational period.

21 MR. CALHOUN: -- the DOE
22 operational period, yes, there is only this

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1 person, instead of getting covered employment
2 through '85-ish, will only have a year and a
3 half covered.

4 MR. HINNEFELD: Yes. The impact
5 really on this case, I mean, it is pretty
6 clear we are concerned on this case. But the
7 question remains, for finishing out these
8 attachment findings, it all depends on the
9 Site Profile. Does it address those findings?

10 MR. CALHOUN: Yes, is it still
11 applicable to Havens?

12 CHAIR GRIFFON: And I will save my
13 comments on TIB-70 for the Board meeting. I
14 can't wait to hear the presentation.

15 MEMBER CLAWSON: Do we need a task
16 to review that or --

17 MR. STIVER: Do we need a formal
18 tasking or just kind of a follow-on?

19 CHAIR GRIFFON: No, just continue
20 to work, right? Yes.

21 MR. STIVER: Okay. So, John, feel
22 free to follow on that as soon as you would

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1 like.

2 MR. KATZ: Right. Read it when it
3 is out.

4 DR. MAURO: Okay. I will be glad
5 to.

6 MR. KATZ: Thank you, John.

7 MR. HINNEFELD: We can provide it
8 or at least let people know when it is
9 available on the website.

10 DR. MAURO: Oh, so it is not out
11 on the web yet?

12 MR. HINNEFELD: No. DOE is
13 reviewing it for public release.

14 DR. MAURO: Okay.

15 MR. HINNEFELD: It is all approved
16 and everything. DOE is reviewing it for
17 public release. When they say okay, then it
18 will be there.

19 CHAIR GRIFFON: All right, Doug or
20 John, Attachment 2.

21 MR. STIVER: Attachment 2 is
22 Harshaw.

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1 MR. CALHOUN: And I don't have any
2 good news on that one. I need to do better
3 and promise a response by next time.

4 I think that what we need to do is
5 reevaluate all the data and justify whether we
6 need a 95th percentile or not. There is a
7 move afoot to change some of the AWE TBDs, or
8 whatever the methodology, to include a 95th
9 percentile, but I can't answer this off the
10 top of my head. I didn't start it early
11 enough to give you a good answer.

12 MEMBER MUNN: You are far, far
13 away from your microphone.

14 MR. CALHOUN: I think I am just
15 speaking quieter than I usually do.

16 MEMBER MUNN: Oh, okay.

17 MR. CALHOUN: Basically, I said
18 I'm sorry.

19 (Laughter.)

20 But, yes, I don't have a good,
21 detailed response for that one yet. I know it
22 has been dragging on forever, and I can't

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1 claim ignorance too many more meetings.

2 CHAIR GRIFFON: Wanda, this one is
3 third apology now.

4 MR. CALHOUN: That is okay. I
5 will send her a private one.

6 (Laughter.)

7 CHAIR GRIFFON: Alright.

8 DR. MAURO: So, at this time, am I
9 correct that at this time there is no action
10 item for SC&A on Harshaw?

11 MR. KATZ: That is correct.

12 CHAIR GRIFFON: Is this for all
13 Harshaw, Grady?

14 MR. CALHOUN: Yes.

15 CHAIR GRIFFON: Basically, we can
16 skip over this?

17 MR. CALHOUN: Yes.

18 MR. FARVER: Yes, there's a few
19 that have been closed, as we go down through.

20 CHAIR GRIFFON: But they are not
21 highlighted anymore, right?

22 MR. FARVER: Right.

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1 CHAIR GRIFFON: So, that is fine.
2 Okay.

3 MR. FARVER: If you look at
4 Finding 3 under Attachment 2, there is a
5 little note that says Mark Griffon needs
6 additional time to consider approach.

7 CHAIR GRIFFON: When was that, in
8 2010?

9 (Laughter.)

10 MR. FARVER: Yes.

11 MEMBER MUNN: Last week.

12 CHAIR GRIFFON: Yes. Well, would
13 this constitute additional time, two years?

14 MEMBER MUNN: One would probably
15 think so.

16 CHAIR GRIFFON: Three years? That
17 was on my birthday. I get a little break on
18 that one, I think.

19 (Laughter.)

20 MEMBER MUNN: And the same break
21 in 2011.

22 CHAIR GRIFFON: I know I had a

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1 stomach hurt at this meeting or in an incident
2 with the Chemical Safety Board.

3 (Laughter.)

4 Alright. I will look at that
5 while NIOSH looks at the rest of it. So, I
6 will say I'm sorry I didn't do that, either.

7 MR. CALHOUN: We are a sorry lot.

8 CHAIR GRIFFON: Yes, yes.

9 (Laughter.)

10 Going on to Huntington then.

11 MR. FARVER: Yes, Attachment 3 is
12 Huntington Pilot Plant.

13 John, are you --

14 DR. MAURO: Oh, yes, I am here. I
15 could help with that.

16 MR. FARVER: Okay. Good.

17 DR. MAURO: Just to help
18 conceptually, it is a facility that receives
19 -- you know these diffusion barriers that are
20 used at the gaseous diffusion plants? These
21 are nickel barriers that the diffusion occurs
22 through. They would send all these barriers

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1 over to Huntington Pilot Plant, where they
2 would clean them up; in other words,
3 chemically remove the nickel from these
4 barriers. And they would always have lots of
5 uranium entrained in there.

6 They would do the chemical process
7 where you would separate the uranium, which
8 had various levels of enrichment, and that
9 would go in one place, and the clean nickel
10 would go somewhere else.

11 It turns out in the process, you
12 generate airborne radioactivity that consists
13 of nickel mixed with various levels of
14 enriched uranium. And you also generate these
15 birdcages where the uranium that was separated
16 from the nickel is sitting in a geometry that
17 is safe from a criticality perspective, but it
18 raises the potential for external exposure.
19 So, that is the picture. I suppose it is good
20 to have a little visual in your head.

21 Now what happened here is we had a
22 number of comments. And in preparing for this

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1 meeting, I looked at that. NIOSH has issued a
2 revision to the Site Profile for Huntington.
3 I could tell you what the comments are, but
4 before we get into that and what our concerns
5 were, apparently, there is a revision out
6 there. I went online to read it over the
7 weekend. A note comes up that it is not
8 available because it has not yet been screened
9 for 508 compliance. So, I was not able to
10 physically download it and read it.

11 I think maybe a lot of the
12 concerns I had that are raised here may have
13 been addressed, maybe not, but I don't have
14 it. And now, is it correct that that document
15 is still not available for me to review or
16 SC&A to review?

17 MR. HINNEFELD: We can make it
18 available to review.

19 DR. MAURO: Yes, that would be
20 great, yes.

21 And I think that there are a
22 couple of issues. I mean, once we review it,

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1 maybe we could revisit this issue again. If
2 you would like to go over what the issues are,
3 I could certainly do that, and why we have
4 expressed certain concerns. Some are more
5 important than others. Or do you just want to
6 wait until we have a chance to look at this
7 new version?

8 MR. KATZ: It makes sense to wait.

9 CHAIR GRIFFON: Yes, why don't we
10 just wait, yes?

11 MR. KATZ: 508 compliance is just
12 a posting issue, John. So, there is no
13 problem making it available.

14 DR. MAURO: Yes. No, I understand
15 that, yes. Yes. Sometimes when I go onsite
16 and I see I can't actually find a document
17 because I am not looking in the right place. I
18 looked in a few places and I couldn't find it,
19 but you say that that actually is not up there
20 yet, but you could make it available to me?

21 MS. ROLFES: He is right. I
22 looked and it is not up there.

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1 MR. SIEBERT: This is Scott.

2 It appears to be there that I can
3 see.

4 DR. MAURO: Oh, okay.

5 MS. ROLFES: I asked about it last
6 week.

7 DR. MAURO: I went online the way
8 I normally go and then tried a couple of other
9 ways. I kept getting that message, the 508
10 compliant message.

11 CHAIR GRIFFON: Well, we will
12 figure it out. And either way, we will get
13 access to the document and, then, we will
14 discuss it later, right? We will hold it,
15 yes.

16 MR. KATZ: Right.

17 DR. MAURO: Then, we can revisit
18 it.

19 MR. KATZ: Next meeting.

20 CHAIR GRIFFON: Okay. So, are we
21 on to the ninth set?

22 Doug, can I ask, did you do the

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1 same thing with the ninth set that you did
2 with the eighth? Did you add in responses?

3 MR. FARVER: I did not.

4 CHAIR GRIFFON: Okay. So, we
5 could work from this.

6 MR. FARVER: Because we had some
7 malfunctions with the operating equipment.

8 CHAIR GRIFFON: Okay. We can work
9 from the copy of that.

10 MR. FARVER: Yes, and my
11 handwritten notes. We are back to paper
12 copies.

13 MR. STIVER: The most reliable
14 form available.

15 MEMBER CLAWSON: Maybe this is the
16 wrong time, and tell me if it is. I know that
17 Stu said we wouldn't have the database, but
18 could we kind of figure out -- I just wanted
19 kind of an update of it. Because just looking
20 at this, it is kind of hard to go through. I
21 was kind of a little bit excited for the
22 database. I was wondering, could we have just

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1 an update on that? I was just wondering where
2 we were at on it?

3 CHAIR GRIFFON: And we had the
4 meeting, right?

5 MR. HINNEFELD: Well, we have had
6 the design meeting.

7 CHAIR GRIFFON: You sent around
8 some notes on the --

9 MR. HINNEFELD: Yes. The notes
10 that we captured about things to be done were
11 I think just recently sent around for
12 everybody's review.

13 I don't have really an update. I
14 mean, we came out of that meeting saying,
15 look, there are other things that our TST is
16 working on, and there won't be anything for
17 this meeting. So, we didn't try to make any
18 progress for this meeting.

19 CHAIR GRIFFON: We can muddle
20 through with our matrices for the meantime,
21 yes.

22 MEMBER CLAWSON: Well, yes, I was

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1 just kind of wondering where we were at, if
2 the ball was rolling on it or what.

3 MR. KATZ: Yes, the ball is
4 rolling. It was a good meeting. We got a lot
5 worked out in terms of what we think is needed
6 as a starting point.

7 MR. HINNEFELD: I believe we want
8 to go starting with the sixth set, is that
9 what we decided?

10 CHAIR GRIFFON: Right. Skip the
11 first five, right. Yes.

12 MR. HINNEFELD: Okay. So, there
13 will be a significant data entry, a
14 significant and complicated data entry,
15 because of the way the matrices are formed, to
16 get things in in sequence.

17 MEMBER CLAWSON: Okay.

18 MR. HINNEFELD: So, it is going to
19 be a fairly significant, complicated data
20 entry process to get these things in.

21 MEMBER MUNN: It is not going to
22 be a trivial effort.

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1 MR. KATZ: Right.

2 MR. HINNEFELD: So, we will work
3 on it, but I didn't expect I would give any
4 report today.

5 MEMBER CLAWSON: No, and I
6 apologize, I was just kind of wondering
7 where --

8 MR. HINNEFELD: It is a decent
9 design. I mean, we have got a pretty good
10 design.

11 MR. KATZ: No, that is fine. It
12 is a good question, yes.

13 MR. STIVER: I guess the question
14 is one of implementation, about when do you
15 expect to start getting IT people working on
16 developing the modules and doing all that, the
17 data transfer?

18 MR. HINNEFELD: Yes, it didn't
19 come with a report. I tried to set that
20 expectation at the beginning.

21 MEMBER CLAWSON: And, Wanda, are
22 you listening for this one?

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1 MEMBER MUNN: I am.

2 MEMBER CLAWSON: I was just going
3 to make a comment about how your process has
4 made it easier for me to go through and find
5 information. And I guess that is why I was
6 just kind of looking at this, because it has
7 made it easier for somebody like myself to be
8 able to follow through where the process was.

9 I didn't mean to put Stu in a bad
10 situation because I know he didn't come with a
11 report. I am just curious.

12 MEMBER MUNN: I am going to send
13 you a gold star.

14 MEMBER CLAWSON: Okay. I will put
15 it on my forehead.

16 (Laughter.)

17 MR. HINNEFELD: I will tell you
18 that this last week Dave Sundin and I met with
19 our TST team lead to talk about the items that
20 we are working on, you know, the list this
21 long. So, it has got to fit into the list
22 somewhere.

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1 CHAIR GRIFFON: Well, in the
2 meantime, after this meeting, I will generate
3 the eighth and ninth, and whatever we get; I
4 will generate the newest single version, so we
5 can all work from one. That is part of the
6 problem, is that we have complicating matters
7 here, is that we get multiple versions.

8 MR. FARVER: And that is why I
9 just try to update the NIOSH one, just to keep
10 it all in the same --

11 CHAIR GRIFFON: So, I will try to
12 have a master copy with this meeting date.

13 MR. HINNEFELD: Okay.

14 CHAIR GRIFFON: Then, I will see
15 how far --

16 MR. HINNEFELD: For downstream
17 when we start loading six and seven, we need a
18 defined matrix for six and seven.

19 CHAIR GRIFFON: Right, right.
20 Yes.

21 MR. HINNEFELD: For usability, we
22 might make this a two-tiered. We might start

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1 entering things we are working on now.

2 CHAIR GRIFFON: Right.

3 MR. HINNEFELD: So, that it is
4 useful. And make the sixth and seventh set
5 and eighth set, you know, kind of make that a
6 side issue or a second string. So, that would
7 make it useful if we don't wait until we get
8 all those.

9 CHAIR GRIFFON: Right. Otherwise,
10 you will always be catching up.

11 MR. HINNEFELD: Yes, we will never
12 catch up. It will be hard to catch up.

13 MEMBER CLAWSON: Thank you. I
14 appreciate that.

15 CHAIR GRIFFON: Alright. So, in
16 the meantime, moving on to my beloved
17 matrices, the ninth set, working from the one
18 that Beth sent around.

19 Doug, did you come down to the
20 first one that is open? Is the first one
21 open, 179.1?

22 MR. FARVER: 179.1 is open.

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1 DR. MAURO: Doug, if you want me
2 to help out --

3 MR. FARVER: Please, because I
4 don't have anything, John. I'm squirming.

5 (Laughter.)

6 DR. MAURO: Yes. That was one of
7 mine. All these AWEs, they are sort of the
8 thing I do.

9 The first one, No. 1, in the
10 original DR review where they talked about
11 external exposures, there really was very
12 little information available for us to make a
13 judgment whether the numbers that they used
14 were reasonable.

15 I think the answer they gave us
16 here in green answers it. As far as I am
17 concerned, I am okay with it. You know, I
18 would recommend close it, Item No. 1.

19 CHAIR GRIFFON: And the answer is
20 that they didn't start dumping material there?

21 CHAIR GRIFFON: Yes, and see, the
22 information that was provided -- there is no

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1 Site Profile --

2 CHAIR GRIFFON: Right.

3 DR. MAURO: -- for Ashland Oil.
4 So, all the information I had was based on
5 what was in the DR report, whatever other
6 sources I could find. And I was having a
7 little trouble confirming the external
8 exposure rates that were employed, this 57
9 micro-r per hour.

10 But they provided information --
11 there was this survey done in '58 --
12 information regarding when the dumping
13 occurred, the conservative assumptions
14 regarding the number of hours of exposure, and
15 taken together, it seems to be a reasonable
16 answer. So, I know I am comfortable with
17 that.

18 The actual detailed data, it might
19 be useful to have that available. Are there
20 any other sources of data that we should have
21 access to? Your answer is good for me, but,
22 you know, it would be good to have the SRDB

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1 numbers, and so forth, where all this comes
2 from.

3 CHAIR GRIFFON: John, can you tell
4 me a little story? I mean, what did Ashland
5 Oil do? I know you like to tell stories.

6 DR. MAURO: Oh, it was a dumping
7 site --

8 CHAIR GRIFFON: And it is before
9 lunch.

10 DR. MAURO: -- for residue that
11 came from Linde, I believe. Wait, I might
12 be --

13 CHAIR GRIFFON: A dumping site for
14 residue that came from Linde?

15 DR. MAURO: Give me a second.
16 Some of these start to blur together.

17 CHAIR GRIFFON: Alright.

18 DR. MAURO: Give me a second. I
19 have the actual Site Profile review in front
20 of me in hard copy, and that will help me get
21 myself oriented.

22 I read these before the meeting

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1 began, just to get myself a little oriented.

2 Let's see. Ah, okay.

3 I'm correct. It turns out that
4 this was a facility that was simply a storage
5 location where they dumped large quantities of
6 residue from the Linde facility at the Ashland
7 Oil site in the time period from 1947 to '75.
8 So, you had this pile of stuff, of residue.

9 CHAIR GRIFFON: '47 to '75?

10 DR. MAURO: Yes, I am looking, I
11 am actually reading from my summary of the
12 background information.

13 Ashland Oil was in existence.

14 CHAIR GRIFFON: Yes.

15 DR. MAURO: When this dumping
16 occurred, when the actual dump occurred might
17 have been --

18 CHAIR GRIFFON: Fifty-seven,
19 right.

20 DR. MAURO: Yes, it ended early.
21 Even though the site has been there until '75,
22 the actual Linde production activities ended

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1 in 1949, as we know actually from Linde.
2 Right.

3 And about 8,000 tons of uranium
4 tailings and residues are spread over two-
5 thirds of the 10-acre site, the site we are
6 talking about. No residues were added after
7 1948. Okay. So, it was in the late 1940s
8 when they piled up all this stuff at the site.

9 And then, okay, it wasn't until a
10 fellow named Weinstein in 1958 gave some
11 reports, some surveys were done. Radiological
12 surveys were conducted in 1957. And the
13 numbers we are looking at are a result of the
14 measurements that were made at that time. I
15 believe that is correct.

16 CHAIR GRIFFON: Okay. So, this
17 stuff was buried at this site at Ashland?

18 DR. MAURO: No, it actually
19 wasn't.

20 CHAIR GRIFFON: Or it was a mound?

21 DR. MAURO: That was one of the
22 questions I had, whether there was a soil

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1 cover.

2 CHAIR GRIFFON: Yes.

3 DR. MAURO: And I don't think
4 there was.

5 CHAIR GRIFFON: So, it was just
6 piled up or whatever?

7 DR. MAURO: Yes, yes.

8 CHAIR GRIFFON: Okay.

9 DR. MAURO: And then they provide
10 this information in the answer, that this is
11 what the survey revealed. I wish I could say
12 that I recently looked into the Site Research
13 Database to look at the survey and data, et
14 cetera, et cetera, but I did not.

15 What we have in front of us is the
16 answer that we are looking at. That came in
17 in February 2013. And I am taking it at face
18 value, you know, and have not checked the
19 source documents behind which those numbers
20 came.

21 MEMBER CLAWSON: But this is an
22 AWE?

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1 DR. MAURO: This is an AWE
2 facility.

3 MR. STIVER: Hey, John, this is
4 Stiver.

5 A minute ago, you said that, based
6 on that review you are looking at, they
7 started dumping residues at Ashland in '47?

8 DR. MAURO: Yes. I am actually
9 reading from the hard copy of the DR review I
10 prepared back in 2008. I tried to refresh my
11 memory over the weekend to get up to speed.

12 Yes, it looked like the dumping
13 occurred up through -- the last dump -- what
14 did I say? -- is 1948. No residues were added
15 after '48.

16 And that was about the time when
17 the activities at Linde ended. All this was,
18 was a dumping ground for residue from Linde.

19 MR. STIVER: The reason I am
20 asking was the response in green indicates
21 here that Ashland didn't start dumping
22 material until 1957. So, the 1958 survey is

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1 reasonably representative of the early
2 exposures.

3 But you are telling me, based on
4 this review, that, no, that is not true; in
5 fact, they started 10 years earlier.

6 DR. MAURO: Yes, you caught me.
7 You're right.

8 MR. STIVER: So, I guess that is
9 kind of still up in the air then?

10 DR. MAURO: Yes, I agree. So,
11 there is a little bit of, yes, maybe we are
12 not okay with this. A little homework may be
13 due. I just didn't dig that deeply into it.

14 MR. STIVER: Yes, and it has been
15 four years since --

16 DR. MAURO: Yes. I would have
17 done it, but I tell you I didn't really jump
18 on this thing until late last week. I'm not
19 sure when all this came out.

20 MR. STIVER: It came out late last
21 week.

22 DR. MAURO: Oh, okay.

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1 MR. STIVER: You didn't have a lot
2 of lead time.

3 CHAIR GRIFFON: So, I think a
4 little more follow-up maybe is needed on that
5 one.

6 DR. MAURO: Yes, a little homework
7 here.

8 CHAIR GRIFFON: All right.

9 MEMBER CLAWSON: Well, this will
10 fall under SC&A follow-up, correct?

11 CHAIR GRIFFON: Yes.

12 DR. MAURO: Okay.

13 MR. FARVER: And you may see that
14 a lot with some of these AWE cases here.

15 MR. STIVER: Yes, I think, as we
16 revisit these.

17 MR. FARVER: We just haven't had
18 time to look at the responses and dig into
19 them.

20 CHAIR GRIFFON: Okay. Moving
21 ahead.

22 MEMBER CLAWSON: Could I just ask

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1 one question? Where is this Ashland Oil,
2 where was it dumped at?

3 MR. STIVER: Geographically where?

4 MEMBER CLAWSON: Yes,
5 geographically where? Because I see Niles,
6 Ohio and Western Reserve Refinery. Is it in
7 Ohio that this was done?

8 MR. STIVER: It's upstate New
9 York, isn't it?

10 DR. MAURO: It is probably close
11 to Linde.

12 MEMBER CLAWSON: Tonawanda.

13 DR. MAURO: Tonawanda.

14 MEMBER CLAWSON: New York. Okay.

15 DR. MAURO: Yes, it says in New
16 York, in the Tonawanda area near Linde.

17 MEMBER CLAWSON: Okay. I see that
18 now. Okay.

19 CHAIR GRIFFON: Okay. 179.3 looks
20 like the same question, I think, to me,
21 anyway.

22 MR. FARVER: Pretty much all the

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1 179s are where you have to look at.

2 DR. MAURO: On No. 3 --

3 CHAIR GRIFFON: Yes.

4 DR. MAURO: -- I do have a concern
5 with that one. It turns out I took a look at
6 it. It was after the data and our review.

7 We had a concern, the original
8 concern was that the dust-loading, .3
9 picocuries per meter cubed may not be the best
10 number. We went back to the original report
11 by Weinstein.

12 What he did is a dust-loading in
13 milligrams per cubic meter that was measured
14 at the site and, also, measurements made in
15 the material that was on the site. What
16 fraction of it was uranium, and the rest was
17 other material.

18 Using those two numbers, we came
19 up with a concentration of airborne uranium
20 that was about four times higher than the
21 numbers that were done in this dose
22 reconstruction.

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1 So, one of our findings, which
2 still stands, is that now we are coming up
3 with numbers four times higher, for the
4 reasons I just gave. So, unlike the other one
5 in which I was ready to say I think we are
6 okay with, which we are not, this one, I am
7 still concerned that maybe they underestimated
8 the internal doses by, at least the airborne
9 dust-loadings, by about a factor of four.

10 There were other aspects, by the
11 way, to this calculation, the assumptions
12 regarding occupancy times, that sort of thing,
13 which are conservative. So, there are many
14 factors. But if you just look at the
15 concentration of the dust in the air, what we
16 found reported in the literature: it looks
17 like the numbers that were used by NIOSH in
18 the DR could be low by a factor of four.

19 CHAIR GRIFFON: And if I may,
20 John, I think the question on the dumping
21 versus the survey timing still stands for this
22 one, too.

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1 DR. MAURO: I agree.

2 CHAIR GRIFFON: Yes, yes.

3 DR. MAURO: I agree.

4 CHAIR GRIFFON: So, you have both
5 factors.

6 CHAIR GRIFFON: Okay.

7 MR. STIVER: So, an additional
8 error or an additional issue.

9 CHAIR GRIFFON: All right. So, I
10 guess there is a question on the number,
11 right --

12 DR. MAURO: Yes.

13 CHAIR GRIFFON: -- that NIOSH came
14 up with? So, NIOSH might want to re-look at
15 that, and you can also check on the survey
16 stuff, the timing of the dumping versus the
17 survey, SC&A.

18 DR. MAURO: Yes.

19 CHAIR GRIFFON: Okay. 179.4, this
20 looks like some comments in the CATI report.

21 DR. MAURO: Yes. My little note
22 that I put down here when I read this answer,

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1 I put down okay. In other words, after
2 reading this, what I think we have here is
3 there was some incompatibility, at least in my
4 mind, between how the location of this worker
5 was represented compared to where he lived and
6 said he lived in his CATI. And there is an
7 explanation provided here, February 2013, that
8 points out that, no, everything is okay.

9 In my mind, I guess the reality is
10 I don't even know if it makes a difference.
11 So, I think, you know, the fact that we had a
12 finding of what appeared at the time we did
13 the review an incompatibility between what the
14 person said his location was in his CATI
15 compared to where he was assumed to be in the
16 DR, and that is why the comment is here.

17 But the response that we are
18 looking at says, no, everything is okay. And
19 I don't know if this really would affect
20 anything anyway. You know, regarding the
21 assumptions you would make in the model, it
22 wouldn't change, notwithstanding this location

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1 question.

2 CHAIR GRIFFON: I think that is
3 correct. That is correct, right?

4 MR. CALHOUN: Yes, if DOL says he
5 was there, he was there.

6 CHAIR GRIFFON: He was there, yes.

7 MR. CALHOUN: Yes.

8 CHAIR GRIFFON: And he is going to
9 get the site doses.

10 DR. MAURO: He is going to get the
11 dose anyway.

12 CHAIR GRIFFON: Yes. Right.
13 Okay. So, that is closed.

14 DR. MAURO: Good, good.

15 CHAIR GRIFFON: Alright. And
16 then, 180.1. Yes, go ahead.

17 MR. FARVER: The finding is, it
18 has to do with the employment period and job
19 location, basically, which are identified. It
20 is the Bridgeport Brass case, Havens Lab. And
21 we haven't discussed this for quite a while.
22 So, this response is even rather old.

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1 But the worker claimed that he
2 worked at Havens Lab from '42 through '80.
3 However, the Site Profile states that
4 operations ended in '62, and operations were
5 transferred to the Seymour Specialty and Wire
6 facility.

7 So, our inquiry is related to
8 whether the worker might have been transferred
9 to Seymour and experienced exposures at that
10 location that were not accounted for in the
11 DR.

12 MR. CALHOUN: I think that is kind
13 of a similar thing --

14 CHAIR GRIFFON: Yes.

15 MR. CALHOUN: -- as we just
16 discussed. Unless Labor puts him there, he is
17 not there. We have to go by the verified
18 employment.

19 CHAIR GRIFFON: Haven't we
20 referred some to Labor just to check on it in
21 the past?

22 MR. CALHOUN: Yes.

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1 CHAIR GRIFFON: I mean, is that
2 one that we --

3 MR. CALHOUN: I don't recall
4 having done that.

5 CHAIR GRIFFON: We can't really do
6 much about this.

7 MR. CALHOUN: Correct.

8 CHAIR GRIFFON: Yes.

9 MR. CALHOUN: But, you know, we
10 did have a relatively successful story. I
11 can't remember the details, but I think
12 somebody ended up getting comped out of the
13 deal.

14 MEMBER CLAWSON: Yes.

15 CHAIR GRIFFON: Yes. Right.

16 MEMBER CLAWSON: Yes.

17 CHAIR GRIFFON: And that came out
18 of the Subcommittee.

19 MR. CALHOUN: It did, yes.

20 CHAIR GRIFFON: Yes.

21 MR. CALHOUN: Because we forwarded
22 it to Denise.

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1 MR. KATZ: Denise brought the folk
2 to DOL, and they sorted it out.

3 MR. CALHOUN: Yes, right.

4 MR. KATZ: And the person was
5 comped; that's true.

6 MR. CALHOUN: And in that case, we
7 had actually referred it to DOL at least on
8 two different occasions.

9 MR. KATZ: Right.

10 MR. CALHOUN: We said, are you
11 sure, and they said yes. That is all we can
12 do. I don't know if we have done that on this
13 one.

14 MR. FARVER: And the reason we
15 bring it up is because there is information
16 that is inconsistent with what is in the DR.
17 So, we just bring it to your attention.

18 CHAIR GRIFFON: I don't think we
19 can do much with it from a DR standpoint here,
20 but I think it might be worthwhile forwarding
21 to DOL and requesting that they look into it,
22 just like they did the other one.

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1 MEMBER CLAWSON: Well, the company
2 was sold, or?

3 MR. FARVER: Operations were
4 transferred to another Bridgeport Brass
5 facility called Seymour Specialty and Wire.

6 MR. CALHOUN: Which is an AWE.

7 CHAIR GRIFFON: Which is an AWE.

8 MR. FARVER: Which is an AWE,
9 right.

10 CHAIR GRIFFON: So, the person
11 could get more, yes.

12 MR. STIVER: It would certainly be
13 worth checking up on.

14 CHAIR GRIFFON: Yes.

15 MR. CALHOUN: I am looking here.
16 It looks like we might have done that.

17 MEMBER MUNN: She did.

18 CHAIR GRIFFON: Oh, you did? You
19 did?

20 MR. CALHOUN: Hold on a second.
21 Let's look.

22 MS. ROLFES: DOL sent it to you

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1 because Kim questioned it.

2 MR. CALHOUN: Yes, one of our
3 PHAs, we are reviewing the claim to make sure
4 that we have correct location. Not specified
5 locations as Havens or Adrian. We didn't ask
6 about Seymour, it doesn't look like.

7 And then, let's see. They came
8 back and verified that, no, it was Havens.
9 Location is Havens.

10 CHAIR GRIFFON: This is a little
11 different question in 2005.

12 MR. STIVER: Yes, the question
13 was, was it Havens or Adrian? And it is
14 Havens.

15 MR. CALHOUN: What is the specific
16 information that makes you think it was --

17 MR. FARVER: The worker -- let's
18 see --

19 MR. CALHOUN: Was that the CATI or
20 something?

21 MR. FARVER: I believe it is the
22 CATI, and the time period is from '42 to 1980,

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1 and the location is given as Bridgeport Brass.

2 I am not sure how specific that is. But,
3 apparently, the Havens Lab ended in '62. So,
4 how could he have employment up through '80?

5 MR. CALHOUN: Unless he went to
6 Seymour.

7 MR. FARVER: But operations were
8 transferred to Seymour. But if he doesn't
9 list Seymour in his work history, are they
10 going to check Seymour?

11 MR. CALHOUN: Well, it looks like
12 the CATI was all done by a survivor.

13 MEMBER KOTELCHUCK: Seymour is in
14 Tonawanda or Buffalo?

15 MR. HINNEFELD: Well, this is a
16 different one.

17 MR. FARVER: This is a different
18 one. This is Bridgeport.

19 MR. HINNEFELD: Bridgeport Brass,
20 yes.

21 MR. FARVER: And I don't know
22 where it is. And I am not sure if it is in

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1 the CATI report or -- what is it? -- the E3.

2 MR. CALHOUN: Yes, I'm looking
3 now, but you guys can go ahead.

4 CHAIR GRIFFON: It is not quite as
5 strong of evidence as we had in the last case,
6 frankly, but yes.

7 MEMBER CLAWSON: Well, if
8 operations went on, if it went from Bridgeport
9 Brass to Seymour, are we classifying Seymour
10 and Bridgeport Brass as the same?

11 MR. CALHOUN: No. No, it is
12 different facilities.

13 MR. FARVER: The thing is, if you
14 don't check their records, are you going to
15 find them?

16 MEMBER CLAWSON: Right. I
17 understand what you are saying now.

18 MR. CALHOUN: Yes, I am looking at
19 the initial DOL application, and they don't
20 mention Seymour in the application.

21 MR. FARVER: No. Do they mention
22 a time period up through 1980?

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1 CHAIR GRIFFON: Right.

2 DR. MAURO: Would I be correct --
3 this is John -- if he did go to Seymour and
4 work there, and that was not picked up as part
5 of his dose reconstruction, that would be a
6 problem. You would have to revisit that
7 because that would be dose you missed.

8 MR. CALHOUN: Only if Labor says
9 that he worked there.

10 DR. MAURO: Okay.

11 CHAIR GRIFFON: That is the key.
12 Yes, Labor is --

13 MR. KATZ: It is an issue between
14 the claimant and Labor to pursue if there was
15 employment elsewhere.

16 MR. CALHOUN: Seymour has covered
17 period of '62 to '64, and then, it is a
18 residual from '65 to '91, and then, DOE, '92
19 to '93 remediation.

20 MR. HINNEFELD: Well, does Havens
21 Laboratory have a residual?

22 MR. CALHOUN: Let's look. I think

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1 yes, off the top of my head, but let's verify.

2 MR. HINNEFELD: It is going to be
3 Bridgeport Brass then.

4 MR. STIVER: Well, they did
5 contract work through '64, but it doesn't say
6 how long the facility was open after that.
7 So, it still at work there.

8 MR. CALHOUN: It is just that
9 Seymour is an AKA as Bridgeport Brass.

10 MR. STIVER: Yes.

11 MR. CALHOUN: Okay. They are an
12 AWE 51-52, and there is no residual period
13 after '62.

14 MR. HINNEFELD: After '62, there
15 is no residual for Havens Laboratory. So,
16 that kind of lends credence to the argument
17 that he may have moved to the Seymour
18 Specialty and Wire facility. Even though the
19 contract ended in '64, there was a residual
20 period that might have passed through his
21 employment. He may have continued to work
22 there, but not on DOE work.

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1 CHAIR GRIFFON: It sounds like
2 something before he was released.

3 MR. FARVER: Yes, it could have
4 been he may not have even known he was working
5 on DOE-related activities.

6 CHAIR GRIFFON: Yes, I think it is
7 worth following up on.

8 MR. HINNEFELD: Yes, we ought to
9 send this to --

10 MR. CALHOUN: Now you think that,
11 ultimately, it is something from CATI, right?
12 Is that what you are saying?

13 MR. FARVER: I don't know without
14 looking further into it.

15 MR. HINNEFELD: He probably didn't
16 only describe it in his CATI; he gave his
17 employment years on his application.

18 MR. FARVER: He probably just gave
19 the employment period.

20 MR. CALHOUN: I looked that up,
21 but it only gives -- I have got to find it
22 again -- it only gives Bridgeport Brass. But

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1 if it was known as Bridgeport Brass --

2 MR. HINNEFELD: But does it give
3 any year? Does it give the years he worked?

4 MR. CALHOUN: It probably does
5 now.

6 MR. FARVER: Yes, I think the
7 years were not consistent with the Bridgeport
8 Brass time period.

9 MR. CALHOUN: This is the initial
10 case, and keep in mind that this is done by a
11 survivor.

12 MR. HINNEFELD: Yes.

13 MR. CALHOUN: Okay. The covered
14 period that is provided here is, oh gosh, '42
15 to '80.

16 MR. HINNEFELD: That is from the
17 DOE summary you are looking at now?

18 MR. CALHOUN: No, that was
19 DOL's --

20 MR. HINNEFELD: DOL's summary?

21 MR. CALHOUN: -- covered period.
22 The application that they put in was '42 to

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1 '80, Bridgeport Brass Company, Bridgeport,
2 Connecticut.

3 MR. HINNEFELD: Okay. So, they
4 sent applications for Bridgeport Brass in
5 Bridgeport, Connecticut, and Seymour Specialty
6 and Wire I assume is in Connecticut.

7 MR. STIVER: I assume they would
8 move it, so it is a really close-by facility,
9 Seymour, Connecticut, yes.

10 MR. HINNEFELD: So, the question
11 to DOL should be the person said they worked
12 at Bridgeport Brass, although they shut down,
13 but there was this other facility that was
14 known as Bridgeport Brass that operated
15 through 1980. Could his employment have
16 switched to Seymour Specialty?

17 MR. CALHOUN: Yes, I can send that
18 really quick to our PHAs.

19 CHAIR GRIFFON: Okay. Alright.
20 So, a referral, and I think we are kind of
21 done with this.

22 MR. HINNEFELD: We are kind of

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1 done unless there was a change in employment.

2 CHAIR GRIFFON: Yes, we are done
3 with it.

4 MR. KATZ: Closed?

5 CHAIR GRIFFON: Yes, closed and
6 referral to DOL.

7 MEMBER CLAWSON: Well, yes, for
8 this one, but I guess I am looking at a little
9 bit of the broader picture that we are getting
10 from this. Do we have other claimants that
11 maybe fell into this? Because this operation
12 period, the operations were transferred to
13 Seymour, do we --

14 CHAIR GRIFFON: Oh, the question
15 in Bridgeport Brass, I mean, yes. Yes.

16 MEMBER CLAWSON: Do we have lots
17 of other claimants that would have fallen
18 under this same process that may not even have
19 called out Seymour --

20 CHAIR GRIFFON: Right. Good
21 question.

22 MEMBER CLAWSON: -- because they

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1 worked for Bridgeport Brass?

2 MR. HINNEFELD: Well, that is
3 searchable.

4 CHAIR GRIFFON: Yes.

5 MR. HINNEFELD: Beth, Grady is
6 busy writing, so you are going to have to take
7 notes on this one. Beth, Grady is busy
8 writing, so --

9 MS. ROLFES: I heard.

10 MR. HINNEFELD: Okay. So, what we
11 will need to do is search for Bridgeport Brass
12 cases that are described as being at Havens
13 Lab past 1962, because any of those, then,
14 would be suspect. Since Havens closed in '62
15 with no residual period, it sounds like they
16 were done. They emptied the place. And so,
17 those people may have, in fact, switched to
18 Seymour Specialty --

19 MR. CALHOUN: Did they close the
20 place or is it just no rad?

21 MR. HINNEFELD: Well, regardless,
22 there would be a residual period, Grady, if

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1 they --

2 MR. CALHOUN: It depends on why
3 they closed it.

4 MR. HINNEFELD: Well, we would
5 have to look at the termination report.

6 MR. CALHOUN: Yes, because they
7 may have existed until then. But that is just
8 a question. I will look at that.

9 MR. HINNEFELD: Okay. Check it
10 out.

11 CHAIR GRIFFON: Yes, yes.

12 MR. HINNEFELD: Right. Right,
13 they could have continued to exist, but our
14 residual report says there is no potential for
15 contamination --

16 MR. CALHOUN: Right.

17 MR. HINNEFELD: -- in which case
18 they would not have --

19 CHAIR GRIFFON: -- cleaned it up
20 to zero.

21 MR. HINNEFELD: Well, if they did
22 a good cleanup and had a survey, we are going

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1 to say it is not contaminated. If they did
2 have a cleanup and had a survey, we are going
3 to say -- actually, if they have a survey --

4 MR. CALHOUN: If they had a
5 survey.

6 MR. HINNEFELD: -- with the
7 results going off or if they did a good
8 cleanup -- it is either/or; it is not both.

9 MEMBER CLAWSON: Well, Seymour, we
10 have got information on it. It is a covered
11 facility, isn't it?

12 MR. STIVER: Yes. I am looking at
13 it right now.

14 MEMBER CLAWSON: So, I was just
15 wondering how we --

16 MR. STIVER: It is a TBD-6000
17 appendix.

18 MEMBER CLAWSON: You know, there
19 may be some people --

20 DR. MAURO: I don't remember doing
21 a Site Profile review on Seymour. We might
22 have, but I am looking at my list here of the

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1 different AWES.

2 MR. HINNEFELD: I don't think
3 there is --

4 DR. MAURO: There isn't one? Oh,
5 okay.

6 MR. STIVER: John, it is Appendix
7 C/D to TBD-6000.

8 DR. MAURO: Oh, so it is TBD-6000?

9 MR. STIVER: Yes.

10 DR. MAURO: But I have got to say
11 I don't remember looking at it.

12 MR. STIVER: I don't remember
13 doing one.

14 MR. HINNEFELD: It may have been
15 written after you guys made your review. That
16 appendix could have been.

17 MEMBER MUNN: But just looking at
18 what is on it, it doesn't look like there is
19 an awful lot of information about Havens,
20 Seymour. It looks like Seymour had a very
21 limited time covered. There's ample
22 requisition forms from August of '52 through

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1 March of '64. That is floor smears,
2 urinalysis, air samples. But a contamination
3 survey at the facility after operations had
4 ceased occurred on October 7, 1964. So, it
5 doesn't look as though Seymour actually was
6 doing anything other than '64.

7 DR. MAURO: You know what would be
8 interesting, too? I know, Kathy, you keep a
9 database of this. Have we ever reviewed a
10 case from Seymour?

11 I don't know if Kathy is still on
12 the line.

13 MS. BEHLING: Yes, I am on the
14 line here.

15 Somehow that rings a bell with me.
16 Also, looking down my list, I don't see that
17 that was the sole site, but I am wondering if
18 it was along with some other. Let me just
19 scan quickly here.

20 DR. MAURO: I mean, the name is
21 familiar, but I don't remember -- I don't
22 think we ever reviewed the exposure matrix.

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1 And the fact that the name is familiar might
2 be because I reviewed a case.

3 MR. STIVER: Regarding that thread
4 we were talking about, how long was the
5 Haven's Lab operational? Basically, it says
6 here in the appendix or the TBD-6000 that,
7 after decontamination in '62, the site was
8 closed down, converted into a school.

9 MEMBER CLAWSON: Boy, they must
10 have got it to zero then. But I guess my
11 thing on here is I think we have got some
12 loose threads on this because it sounds like
13 to me that, basically, the workforce, the
14 whole workforce that was working on this may
15 have been transferred.

16 CHAIR GRIFFON: That is a good
17 question. So, they are going to follow up on
18 that.

19 MEMBER CLAWSON: Okay.

20 CHAIR GRIFFON: I think we will
21 leave it at that. Let NIOSH pull this thread
22 and see what they get.

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1 John, how about 180.2? This is a
2 similar issue that we discussed.

3 DR. MAURO: Yes, well, we talked
4 about that. That was that factor of two
5 because of correlated --

6 CHAIR GRIFFON: Right.

7 DR. MAURO: As long as everybody
8 is happy that we have dealt with that in the
9 Site Profile, then this issue could be closed.

10 CHAIR GRIFFON: And we are still
11 going to get the full report, right? That is
12 what we asked for before.

13 DR. MAURO: Yes.

14 CHAIR GRIFFON: Yes, yes.

15 DR. MAURO: I mean, if you want to
16 leave the decision on that --

17 CHAIR GRIFFON: Your full report,
18 right.

19 DR. MAURO: -- we could do that,
20 or whatever.

21 CHAIR GRIFFON: We are leaving it
22 open for now until we see your --

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1 DR. MAURO: Sure.

2 CHAIR GRIFFON: I mean, you have
3 provided it before. We just haven't looked at
4 it in a while.

5 MEMBER CLAWSON: So, we are going
6 to put that down, awaiting SC&A's report?

7 CHAIR GRIFFON: Yes. Yes.

8 MEMBER CLAWSON: The full report?

9 CHAIR GRIFFON: Or the
10 Subcommittee is going to look at the full
11 report, right.

12 Okay. Let's see, is there another
13 quick one we can tackle before lunch?

14 MR. HINNEFELD: We could do 181
15 and 182.

16 (Laughter.)

17 CHAIR GRIFFON: Yes, done. A
18 comedian.

19 (Laughter.)

20 How about 183.5? Dare I try to go
21 into this?

22 MR. STIVER: Modeled intake versus

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1 ingestion.

2 MR. FARVER: I don't have anything
3 unless John does.

4 DR. MAURO: Oh, this is very
5 simple. Notice the comment. You are talking
6 about 183.5?

7 CHAIR GRIFFON: Yes.

8 DR. MAURO: Yes. Yes, we are
9 referring to, apparently, the 1 percent per
10 day. Do you remember in the old days one of
11 the ways you would model the rate of decline
12 of residual activity is one percent a day?
13 That is all gone.

14 I believe, Stu, you folks I know
15 you might be doing a PER to revisit that 1
16 percent per day. But now you are using .00067
17 per day as being the way to deal with the
18 residual period, the rate of decline.

19 Now I know that that part of the
20 dose usually isn't very important.

21 CHAIR GRIFFON: Right, right.

22 DR. MAURO: But that is what the

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1 issue is here. You know, the concern we
2 raised here had to do with that.

3 MR. HINNEFELD: What site are we
4 talking about? Do we know?

5 DR. MAURO: Yes. I have it here.
6 That is Herring Hall.

7 MR. CALHOUN: Herring Hall/Marvin
8 Safe.

9 DR. MAURO: I have 183 is called
10 Herring Hall.

11 MR. CALHOUN: It is a comp case.

12 MR. STIVER: This is already a
13 comp case.

14 MR. CALHOUN: Yes.

15 MR. SIEBERT: This is Marvin Safe,
16 that is correct.

17 MR. STIVER: Yes.

18 CHAIR GRIFFON: It was
19 compensated, yes.

20 MR. CALHOUN: Yes, it is a comp
21 case.

22 MR. STIVER: And the issue itself

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1 is already, it is counted in the TIB-70
2 revision.

3 CHAIR GRIFFON: Okay.

4 MR. STIVER: So, it is not like it
5 is common to other cases.

6 CHAIR GRIFFON: Right. So, this
7 is covered in the TIB-70 revision. So, we can
8 close it for this case, I think, right?

9 MR. STIVER: Yes.

10 CHAIR GRIFFON: Yes.

11 DR. MAURO: Yes, and it had to be
12 compensated as -- you know, the dose may go up
13 marginally if you go to that.

14 CHAIR GRIFFON: Yes, and we
15 couched that issue elsewhere, yes, the TIB-70
16 revision. Okay.

17 MR. KATZ: Closed?

18 CHAIR GRIFFON: So, closed for
19 this.

20 184.1.

21 DR. MAURO: That is Hooker.

22 CHAIR GRIFFON: Oh, 6001 closed

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1 this out for us.

2 MR. CALHOUN: Thank you, 6001.

3 CHAIR GRIFFON: Yes.

4 DR. MAURO: Well, 6001 is gone,
5 right?

6 MR. HINNEFELD: Well, the uranium
7 refining --

8 CHAIR GRIFFON: Yes.

9 DR. MAURO: Now there are
10 independent, standalone --

11 CHAIR GRIFFON: Right.

12 DR. MAURO: -- Site Profiles for
13 each of the ones that used to be under it.

14 CHAIR GRIFFON: That is right.

15 DR. MAURO: But 6001 really does
16 not physically exist anymore.

17 CHAIR GRIFFON: Yes, yes.
18 Nonetheless, was this issue, I mean it seems
19 like it was discussed there.

20 MEMBER CLAWSON: And that Work
21 Group went away.

22 MEMBER MUNN: That is a PER, yes.

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1 DR. MAURO: Hooker, I have to say
2 I didn't get this far. Hooker would be one
3 that I normally would look at and try to put
4 to bed for you, folks. And this issue that we
5 are looking at, I would need a little time to
6 look at this.

7 CHAIR GRIFFON: How about this?
8 We break for lunch and you --

9 DR. MAURO: And I will take a look
10 at it, sure.

11 CHAIR GRIFFON: -- take a look at
12 it?

13 (Laughter.)

14 DR. MAURO: No, it usually doesn't
15 take long.

16 CHAIR GRIFFON: No. I mean, if
17 you can, really, if you can look at it and it
18 is quick, you know --

19 DR. MAURO: Yes.

20 MR. CALHOUN: Otherwise, we will
21 just hold it. I am just teasing a little bit.

22 DR. MAURO: No, no, that is true.

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1 CHAIR GRIFFON: Yes, if it is
2 something simple, you know, okay.

3 DR. MAURO: Yes.

4 CHAIR GRIFFON: And I don't know
5 if anybody was on the 6001 Work Group. Wanda,
6 are you on that Work Group?

7 MEMBER MUNN: I was not, no. I
8 was on 6000, not 6001.

9 CHAIR GRIFFON: Yes. I am not
10 sure what was done there.

11 MR. CALHOUN: Hey, John, didn't
12 Bill work --

13 DR. MAURO: I am going to call
14 Bill during the lunch break.

15 CHAIR GRIFFON: Okay. Alright.

16 DR. MAURO: I am going to try to
17 get him into this because he is the expert on
18 this facility.

19 MR. KATZ: Yes, he knows that.
20 Great.

21 CHAIR GRIFFON: So, John has got
22 his assignment, and I think we should break

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1 for lunch until 1:00. How does that sound?

2 MEMBER MUNN: Good.

3 MR. KATZ: Thanks, everybody.

4 CHAIR GRIFFON: Thanks. We made
5 some progress.

6 (Whereupon, the above-entitled
7 matter went off the record for lunch at 11:55
8 a.m. and resumed at 1:04 p.m.)

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

2 MR. KATZ: Good afternoon, Dose
3 Reconstruction Subcommittee. We are getting
4 back going after lunch.

5 Let me just check on the line and
6 see, do we have our Board Members, Ms. Munn
7 and Dr. Richardson?

8 MEMBER RICHARDSON: This is David
9 Richardson.

10 MR. KATZ: Hi, David.

11 Wanda, do we have you, too?

12 (No response.)

13 Not at the moment.

14 CHAIR GRIFFON: I think we will
15 start. I am sure Wanda will come on in a
16 second.

17 MR. KATZ: Sure. You have a
18 quorum.

19 CHAIR GRIFFON: Yes, we have a
20 quorum.

21 MEMBER MUNN: And I'm here.

22 CHAIR GRIFFON: And Wanda's here.

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1 Great.

2 So, the first item, I think, if
3 John has done his homework, maybe we can hear
4 from 183.5.

5 DR. MAURO: Yes, I will make it
6 quick.

7 CHAIR GRIFFON: Okay.

8 DR. MAURO: I did speak to Bill
9 Thurber. What we have here is, when we
10 reviewed the Hooker case, this case, it was at
11 a time when it was a subset of TBD-6001. And
12 the comment that we had here was that the
13 duration of exposure, a person's experience,
14 we thought was too short, for a variety of
15 reasons.

16 Now it turns out that in the
17 interim between when we made this comment, we
18 could see the green provided here which
19 indicates that, well, there is now a
20 standalone Hooker Chemical Company Site
21 Profile that has been issued that SC&A has not
22 reviewed.

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1 And coincidentally, I think it was
2 Thursday or Friday, because of the PER
3 discussions that, Wanda, will be held tomorrow
4 -- and you will hear more about this -- you
5 know, the review of the PER -- stay with me;
6 this is an interesting bridge between the
7 differing Work Groups and the Procedures
8 Subcommittee, the DR, and the Work Groups, an
9 interesting blending issue and has some
10 importance.

11 In any event, Bill actually did
12 read through very recently the new version of
13 Hooker from the perspective of, well, has it
14 changed to such a large extent that we really
15 need to -- we can't pull a PER review? And he
16 read it and he went over it, and he sent the
17 memo in. And John will talk about this
18 tomorrow.

19 But the bottom line is, with
20 regard to this one issue -- this is a call you
21 guys have to make -- this business of 5
22 percent of the time, Bill, when he read the

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1 new Site Profile for Hooker felt that NIOSH
2 provided a good rationale for why the 5
3 percent was a good number. And in his
4 opinion, we could close this issue.

5 However, the interesting part of
6 this is this is really part of a larger Site
7 Profile that has never been reviewed, this
8 revision. There are lots and lots of issues
9 that are in play. In theory, one could ask
10 yourself the question, well, should we be
11 closing out this issue if, in fact, the Site
12 Profile within which this issue has been
13 addressed has never been reviewed? And this
14 raises questions like the cross-cutting across
15 the DR, the Procedures, and the AWE Work
16 Group.

17 Do you see what I am getting at?
18 I hope I didn't confuse things. But it is an
19 interesting dilemma.

20 We believe we can close this issue
21 out, based on Bill's review of the answer as
22 provided in the latest version of the Hooker

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1 Site Profile. So, from a technical
2 perspective, that would be our recommendation.

3 But, at the same time, the
4 circumstance you are in is that, well, really,
5 that particular Site Profile has never been
6 reviewed. And so, it becomes a question of,
7 should we move forward with that, even though
8 it really is something that should be looked
9 at by the AWE Subcommittee, the AWE Work
10 Group?

11 MR. KATZ: Right, that is the
12 TBD-6000 Work Group. So, it doesn't sound
13 like much of a dilemma for this Subcommittee
14 at all.

15 DR. MAURO: Well, you could close
16 it out, but it would be closing it out in
17 advance of, let's say, Dr. Anderson saying it
18 is okay.

19 MR. KATZ: It is not Dr. Anderson,
20 is it?

21 DR. MAURO: Oh, I'm not sure --

22 MR. KATZ: No, no, you're right.

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1 No, you're right. You're right, it is Dr.
2 Anderson.

3 DR. MAURO: Am I correct? Okay.

4 MR. KATZ: Yes. But it doesn't
5 sound like it is a dilemma for the
6 Subcommittee, which is just considering the
7 case, not --

8 CHAIR GRIFFON: Well, I mean, it
9 is a little odd because weren't we doing these
10 as mini-Site Profile reviews?

11 MR. STIVER: Yes. So, this really
12 is kind of an individual case.

13 MR. KATZ: Well, Hooker is not.
14 Hooker has a Work Group --

15 CHAIR GRIFFON: Hooker has, yes.

16 MR. KATZ: -- that is charged with
17 the TBDs and SECs.

18 CHAIR GRIFFON: Okay. Yes, yes,
19 yes.

20 DR. MAURO: You see, the issue is
21 the answer that we received from NIOSH here,
22 basically, could have been just an answer

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1 directly to the question and said, okay, we
2 believe the 5 percent is good for the
3 following reasons. And Bill could have looked
4 at it and said, yes, we agree, and it would
5 have been very well clean. It would be clean.

6 But the answer that is provided
7 here is that, well, we have a whole new TBD.
8 And if you look at it, you will see in it
9 there is an answer to this question that we
10 believe takes care of the problem. So, you
11 see the issue it raises.

12 CHAIR GRIFFON: Yes, I mean, I
13 think we could -- and that is the importance
14 of linking these things.

15 DR. MAURO: Yes.

16 CHAIR GRIFFON: I mean, we could
17 say at least that we came to this decision,
18 and for your information, you might want to
19 consider what the Subcommittee did. We don't
20 want to go over the same turf again, right?

21 And SC&A is probably going to be
22 assisting that Work Group as well. So, I

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1 think you would have the same opinion, right?

2 MR. KATZ: Right, and that Work
3 Group dealt with a lot of TBD issues in
4 dealing with the Hooker SEC.

5 CHAIR GRIFFON: Yes.

6 MR. KATZ: So, I don't know how
7 much the new TBD already reflects discussions
8 that occurred on the SEC issues for Hooker --

9 CHAIR GRIFFON: Right.

10 MR. KATZ: -- but I imagine there
11 is significant overlap because they went into
12 it in considerable detail.

13 DR. MAURO: See, this would be one
14 of those interesting Site Profile issues that
15 are not an SEC.

16 MR. KATZ: No.

17 DR. MAURO: It has to do with, did
18 they use the right time length?

19 MR. KATZ: No, I understand. I
20 understand, John. So, I understand there may
21 be issues that the Work Group hasn't
22 addressed, right, that are strictly sort of

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1 TBD issues.

2 DR. MAURO: Yes.

3 MR. KATZ: Absolutely. And the
4 thing I think to do here is to simply raise
5 with that Work Group, are you going to be
6 looking at the TBD? I think that would take
7 care of it --

8 CHAIR GRIFFON: Right, right.

9 MR. KATZ: -- because they have
10 other --

11 CHAIR GRIFFON: Yes.

12 MR. KATZ: -- things they need to
13 do.

14 CHAIR GRIFFON: Right.

15 MR. KATZ: And then, it doesn't
16 sit on your plate, Mark, here.

17 CHAIR GRIFFON: Yes, yes.

18 MEMBER KOTELCHUCK: Which is to
19 say it is just being transferred to the AWE
20 group.

21 MR. KATZ: In effect. In effect.

22 CHAIR GRIFFON: Now tell me where,

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1 John, tell me where this 5 percent reference
2 is. You keep saying the 5 percent.

3 DR. MAURO: Yes, well, in --

4 CHAIR GRIFFON: In our matrix,
5 show me where.

6 DR. MAURO: Oh, in 184-1.

7 CHAIR GRIFFON: Okay.

8 DR. MAURO: In the comments, right
9 there, right next to it, you will see the 5
10 percent is in there. In other words, it
11 basically assumes one day per month.

12 In modeling -- I will tell you the
13 story. It is simple.

14 CHAIR GRIFFON: Wait. 184.1?

15 DR. MAURO: 184, page 7, the
16 bottom of page 7.

17 CHAIR GRIFFON: Oh, 5 percent, I
18 got it. Okay.

19 DR. MAURO: You got it.

20 What we are saying is this.

21 CHAIR GRIFFON: In the initial
22 finding, okay.

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1 DR. MAURO: All this magnesium,
2 this material that you generate, the magnesium
3 fluoride that is produced when you do
4 reduction, you know, you are making uranium,
5 you have got some slag, what happens is they
6 sent tons of this stuff over to Hooker and
7 they used this hydrochloric acid to digest it
8 and separate out whatever residual uranium was
9 present there.

10 And embedded in that process is
11 assumptions regarding, well, how long was the
12 worker actually directly involved in handling
13 this material, inhaling the material? And in
14 the TBD, they use, I believe, one day a month
15 or 5 percent of the time on that. I think
16 that was the number.

17 And we were critical of that. We
18 explained at some length why we thought that
19 was a little bit short, for a variety of
20 reasons.

21 However, it turns out, recently,
22 we had a chance to look at that new version of

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1 the TBD, and in it is the rationale and
2 justification for that, which Bill just told
3 me it seems to be a pretty good argument. And
4 so, in his opinion, this issue, SC&A would
5 recommend closing the issue on that basis.

6 But I wanted to bring up this
7 other matter because it goes toward the
8 overall new version of this TBD.

9 CHAIR GRIFFON: Okay. And so,
10 then, in the green we have this issue was
11 brought up, discussed, and resolved in the
12 6001 Work Group. Is that --

13 DR. MAURO: No. This is --

14 CHAIR GRIFFON: That is what you
15 are saying; there is a new TBD since then?

16 DR. MAURO: Yes.

17 CHAIR GRIFFON: Okay.

18 DR. MAURO: There is a new TBD
19 that has come out that we haven't reviewed
20 formally as part of the TBD-6000 -- I'm sorry
21 -- as part of the TBD-6001, the new AWE Work
22 Group. We have not been asked to review it.

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1 But we did review it sort of. It
2 turns out that one of the questions that came
3 up is, under Wanda's Subcommittee, there is a
4 PER that has been identified for review, which
5 is basically a PER dealing with the fact that
6 Hooker Chemical has a PER that the
7 Subcommittee, the Procedures Subcommittee,
8 would like us to review.

9 But we come back and say, well,
10 hold the presses. You know, this is a whole
11 new TBD. Shouldn't that be reviewed first by
12 the AWE Work Group?

13 I don't know if you are following
14 this.

15 MR. KATZ: No, we understand this,
16 John.

17 CHAIR GRIFFON: Yes, yes, yes.

18 MR. KATZ: But the comment --

19 DR. MAURO: There are these
20 linkages --

21 MR. KATZ: Right.

22 DR. MAURO: -- that I think are

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1 important. And all I am doing is alerting to
2 you that we have three separate operations
3 going that are linked: the work you are doing
4 right now with the particular case --

5 MR. KATZ: Yes.

6 DR. MAURO: -- Wanda's
7 Subcommittee on Procedures, and Dr. Anderson's
8 Work Group dealing with Hooker.

9 MR. KATZ: Right, we understand,
10 John.

11 DR. MAURO: Okay.

12 MR. KATZ: The only reason Mark is
13 a little bit questioning this is because it
14 says specifically this issue was brought up
15 and discussed and resolved in the TBD-6001
16 Work Group. And that sort of relates to what
17 I was saying. The TBD-6001 Work Group, when
18 they dealt with the SEC, they dealt with a
19 number of issues that may, you know, they deal
20 with more than what ends up being strictly SEC
21 issues.

22 CHAIR GRIFFON: Right.

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1 MR. KATZ: Some end up being TBD
2 issues. So, maybe they did; maybe they
3 didn't. But I think the way to just sort of
4 put a period on this is I will send an email
5 to Dr. Anderson for that Work Group -- I will
6 copy you, Mark -- just saying, raising the
7 issue of considering looking at the new TBD
8 and seeing what issues have not been addressed
9 that need to be put to bed, that weren't
10 covered by the SEC discussions. And that will
11 take care of it, John.

12 DR. MAURO: Good.

13 MR. KATZ: And then, if they need
14 to task you, they will task you.

15 DR. MAURO: No, I just wanted to
16 put it in --

17 MR. KATZ: Right.

18 DR. MAURO: -- because I think
19 it --

20 CHAIR GRIFFON: No, that is okay.
21 It is confusing. Alright.

22 MEMBER MUNN: It was appropriate

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1 for you to put in. It is good for everybody
2 to be aware that those went up here, and that
3 that is very real.

4 CHAIR GRIFFON: So, it is closed
5 from our standpoint. We will refer to, or Ted
6 will send an email referring it.

7 MR. KATZ: Right, right.

8 CHAIR GRIFFON: Okay. So, are we
9 on to 185.1?

10 DR. MAURO: Well, 185 is
11 Huntington --

12 CHAIR GRIFFON: Yes.

13 DR. MAURO: -- Pilot Plant, the
14 whole string of them. Should we wait until we
15 have reviewed the new Huntington? Or do you
16 want to talk about them now, our issues
17 related to the Huntington new -- we have a
18 whole list of issues --

19 CHAIR GRIFFON: Yes.

20 DR. MAURO: -- related to this,
21 and the birdcages, and all --

22 CHAIR GRIFFON: Yes, we said

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1 refer, we said --

2 MR. STIVER: Yes, I think this
3 should be grouped with the --

4 CHAIR GRIFFON: Attachment 3,
5 right, was it? Yes. Okay. I forgot. Yes,
6 that came up before.

7 DR. MAURO: Yes.

8 CHAIR GRIFFON: So, we will wait
9 and defer that until you review the new one.

10 DR. MAURO: Yes.

11 CHAIR GRIFFON: Okay.

12 MR. KATZ: So, the next meeting?

13 CHAIR GRIFFON: Yes.

14 Most of all these cases are yours,
15 huh, John?

16 DR. MAURO: I am a busy guy.

17 (Laughter.)

18 CHAIR GRIFFON: I thought you were
19 retired.

20 DR. MAURO: Yes, no way.

21 CHAIR GRIFFON: No way.

22 Alright. Let's see, I guess there

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1 is nothing on these. What is 187.1? Why do
2 we have Vitro Manufacturing in there? I am
3 not sure why that is in there.

4 MR. FARVER: Probably just so you
5 know what site it is.

6 CHAIR GRIFFON: So, we know the
7 site, yes.

8 MEMBER MUNN: I don't know that we
9 have anything new. The last thing we had was
10 in 2012, I think.

11 CHAIR GRIFFON: But in 187.1, we
12 had no initial response, did we? Or did we?

13 MS. ROLFES: I just got that in
14 from Dave.

15 CHAIR GRIFFON: Oh, okay.

16 MS. ROLFES: He said an 83.14 was
17 an initiated and a Class was designated.

18 CHAIR GRIFFON: Oh, yes.

19 MS. ROLFES: A PER was done today.
20 It wouldn't be done with the radium intakes
21 because of that.

22 CHAIR GRIFFON: Okay. So,

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1 Vitro --

2 MR. CALHOUN: The entire
3 employment of this case is within the
4 established SEC.

5 CHAIR GRIFFON: So, it was an SEC?

6 MR. CALHOUN: Yes.

7 CHAIR GRIFFON: Do these findings
8 have any effect on non-SEC dose
9 reconstruction? I mean, are we treating this
10 sort of as a mini-review as well?

11 MEMBER MUNN: This is all
12 employment verification stuff.

13 MR. FARVER: I don't have the case
14 in front of me.

15 MR. CALHOUN: Well, the first two
16 talk about unmonitored dose and internal dose.

17 CHAIR GRIFFON: Yes, yes.

18 MR. CALHOUN: So, those are going
19 to be N/A because of the SEC.

20 MR. HINNEFELD: We added an SEC
21 Class because we couldn't reconstruct it from
22 the doses.

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1 MR. CALHOUN: Right.

2 MR. HINNEFELD: And so, those
3 components would not be reconstructed in it.

4 CHAIR GRIFFON: But unmonitored --

5 MR. HINNEFELD: If they were
6 employed during the period of the SEC, they
7 can't reconstruct the internal dose.

8 CHAIR GRIFFON: You did it based
9 on internal, but the first one is unmonitored.
10 Wouldn't that be external? I don't know.

11 MR. HINNEFELD: What's that?

12 CHAIR GRIFFON: The first one says
13 potential unmonitored dose. I assume that is
14 external.

15 MR. STIVER: That is an external
16 dose.

17 MR. CALHOUN: Well, again, if it
18 is unmonitored dose, if it is an SEC, a lot of
19 times you are not going to have a coworker
20 approach, internal or external.

21 CHAIR GRIFFON: So, they will just
22 assign the people that have records, right?

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1 MR. CALHOUN: Right.

2 CHAIR GRIFFON: Well, I thought in
3 some cases you did try to do external?

4 MR. STIVER: We try to do partial
5 reconstruction.

6 MEMBER CLAWSON: So, refresh my
7 memory. The 83.14 was for internal dose only?

8 CHAIR GRIFFON: Okay. So, let's
9 assume the first two are not applicable. So,
10 they will go away, right? We are not going to
11 worry about them. What about other ones,
12 187.3?

13 MR. CALHOUN: Talked about
14 employment prior to '49.

15 CHAIR GRIFFON: Prior? Okay.

16 MR. CALHOUN: Verified employment
17 is only '50. He is comped.

18 MEMBER MUNN: Was I mistaken when
19 I said this was all record-of-employment
20 issues?

21 MR. CALHOUN: The first two were
22 not, Wanda.

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1 MEMBER MUNN: They were not?

2 CHAIR GRIFFON: Yes, we are just
3 walking down, Wanda, yes.

4 DR. MAURO: One is external. Two
5 is internal. And then, the third one I
6 believe has to do with --

7 CHAIR GRIFFON: His employment,
8 yes.

9 DR. MAURO: -- employment.

10 MR. FARVER: And as I recall,
11 there was something in, I believe it was the
12 CATI report that said that he was employed
13 beginning earlier, like 1940.

14 But I know we have been through
15 this before because I have got this one --

16 MEMBER MUNN: Yes, they don't have
17 anything prior to 1949.

18 MR. FARVER: Right. And I think
19 what it comes down to is the action was DOL,
20 to determine whether this issue was
21 communicated to DOL. In other words, did
22 anyone mention it and they did their response

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1 here. So, I don't know that there is any more
2 we can do on this.

3 CHAIR GRIFFON: Right. Plus the
4 fact that the case is an 83.14, anyway, right?
5 So, yes.

6 MR. FARVER: So, I would close
7 that one.

8 CHAIR GRIFFON: Yes, I think it is
9 closed, right.

10 MR. HINNEFELD: That means there
11 was an SEC added that included this case.

12 CHAIR GRIFFON: Sorry, yes.

13 MR. HINNEFELD: Yes. Okay.

14 MEMBER MUNN: And the last
15 statement there pretty much says we can't go
16 any further than that, right?

17 CHAIR GRIFFON: Yes. Yes, we are
18 up to 191.1, I guess.

19 MEMBER MUNN: Right.

20 DR. MAURO: Mark, this is John.

21 I am going to break. I think we
22 have cleared all the AWE sites. The rest are

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1 DOE. And I am going to, unless you would like
2 me to stay on, I am going to break.

3 CHAIR GRIFFON: Okay. Thanks,
4 John.

5 DR. MAURO: Okay. Bye-bye,
6 everybody.

7 CHAIR GRIFFON: Alright.

8 MR. FARVER: I would like to keep
9 this one open until I can go check this. This
10 is where my computer went on me, and I
11 couldn't go in and look at the files.

12 CHAIR GRIFFON: Is that true for
13 the rest of the matrix or no?

14 MR. FARVER: Some of these we can
15 close just by reading the responses.

16 CHAIR GRIFFON: Okay. So, 191,
17 you think or --

18 MR. FARVER: 191.1.

19 CHAIR GRIFFON: Oh, just that
20 particular one? Okay. Alright. So, next
21 time. Okay.

22 191.2.

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1 MR. FARVER: Electron dose
2 assigned to incorrect cancer location. So,
3 this one is agreed upon. They corrected it.
4 Did not result in a change in compensability.

5 MR. CALHOUN: That is a comp case,
6 it looks like.

7 CHAIR GRIFFON: It was
8 compensated?

9 MR. CALHOUN: Yes.

10 CHAIR GRIFFON: So, it is a QA
11 error, but --

12 MR. FARVER: It is a QA error.

13 CHAIR GRIFFON: But it is closed?

14 MR. FARVER: Closed.

15 CHAIR GRIFFON: Yes.

16 MR. CALHOUN: And Clarksville,
17 Medina are now SECs, anyway, I believe.

18 MR. FARVER: Yes.

19 CHAIR GRIFFON: Oh, is that what
20 this one is? Okay.

21 MR. FARVER: The next one has to
22 do with converting neutron doses to organ

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1 doses. And you can see in their response --

2 CHAIR GRIFFON: The same thing,
3 right?

4 MR. FARVER: -- the same thing,
5 closed.

6 CHAIR GRIFFON: Okay. So, it is
7 QA? Okay.

8 Alright. What is our next one,
9 192, Observation 1? Oh, this is a skin dose,
10 measuring skin dose question?

11 MR. FARVER: Skin dose at Fernald,
12 I believe.

13 CHAIR GRIFFON: Okay. Was this
14 referred? NIOSH is suggesting referring.

15 MR. FARVER: They are suggesting
16 refer it.

17 CHAIR GRIFFON: It seems like it
18 should be -- I don't know.

19 MEMBER MUNN: Looks not specific
20 to me.

21 CHAIR GRIFFON: Yes, yes. You
22 don't want it, Wanda?

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1 MEMBER MUNN: You're right.

2 (Laughter.)

3 CHAIR GRIFFON: Alright, Bradley,
4 that is yours.

5 MEMBER MUNN: It really does look
6 clearly to me.

7 CHAIR GRIFFON: Yes, I think it
8 makes sense that it should be brought to the
9 Fernald Work Group. The thing is I don't
10 think it is going to be -- it is not going to
11 be a top-burner for Fernald.

12 MR. CALHOUN: This was also a comp
13 case.

14 CHAIR GRIFFON: This was comp,
15 too.

16 MEMBER CLAWSON: Which one is it?

17 MR. FARVER: 192, at the bottom of
18 page 15.

19 CHAIR GRIFFON: Is this the
20 question that has --

21 MR. FARVER: It was the
22 question --

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1 CHAIR GRIFFON: -- that has arisen
2 before, that it is skin doses where --

3 MR. HINNEFELD: Skin doses where
4 you may have had contamination on the skin.

5 CHAIR GRIFFON: Hot spot, yes,
6 yes.

7 MR. STIVER: Localized exposure, a
8 hot particle.

9 MR. HINNEFELD: Well, you don't
10 really have hot particles in a uranium plant,
11 but you can get contamination.

12 MR. STIVER: Yes, when you have
13 localized, yes.

14 MR. FARVER: I believe it is about
15 using the film dosimeter data to assess the
16 skin dose. And I don't know the exact
17 location, but --

18 MR. HINNEFELD: Okay. I think the
19 critical question has always been, in a
20 situation like a plant at Fernald where there
21 is a chance for skin contamination to occur
22 without a particular warning bell sounding,

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1 for instance, are you, in fact, capturing what
2 the dose might be to exposed surfaces? It
3 comes up at the Oak Ridge plants as well,
4 gaseous diffusion plants. So, that has come
5 up in that context. We have had some
6 discussions about this before, but I don't
7 think we have got a resolution.

8 MEMBER CLAWSON: Okay. This ought
9 to be referred to my group, though, because I
10 think we are looking at this a little bit
11 right now.

12 MR. STIVER: I don't think we have
13 looked at the issue of film dosimeters and
14 skin dose contamination at Fernald as a
15 particular sub-issue. It might be something
16 we want to look at.

17 MEMBER CLAWSON: Maybe we need to
18 look at that.

19 MR. STIVER: Yes. You can
20 certainly bring it over.

21 MR. KATZ: Well, it is not an SEC
22 issue.

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1 CHAIR GRIFFON: Yes, I don't think
2 it is an SEC issue.

3 MR. STIVER: But you can still put
4 it in a TBD.

5 MR. FARVER: I want to go back and
6 look and find out exactly what the --

7 MR. STIVER: Right, let's check.

8 MR. HINNEFELD: We need to make
9 sure that Mark, and I guess me -- I am our
10 other Fernald person -- because I will forget
11 it, make sure he is aware of this item, may in
12 fact come up at the Fernald Work Group.

13 MR. CALHOUN: What is the exact
14 issue? I'm sorry, I am trying to look
15 through --

16 MR. KATZ: He has a problem with
17 Fernald, but on the issue of dealing with skin
18 doses, he is the one who --

19 MR. HINNEFELD: He has dealt with
20 this, I believe, at Bethlehem Steel and
21 perhaps at --

22 MR. KATZ: A number of places he

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1 has dealt with this. It's always his standard
2 assertion that this is really -- dealing with
3 this on a case-by-case basis.

4 MR. HINNEFELD: Yes, there is not
5 a standard approach to it.

6 MEMBER CLAWSON: But wouldn't
7 Fernald be a little bit different case? I
8 guess I am looking at it a little bit
9 different because in like Bethlehem Steel, or
10 something like that, where they have
11 particulates, we really wouldn't have that at
12 Fernald. They are trying to use film badge
13 data for skin contamination.

14 MR. HINNEFELD: Well, no, they are
15 using film badge data as the dose to the skin.
16 The contention from SC&A is that, at a plant
17 like Fernald and Bethlehem Steel, where you
18 are using uranium, essentially bare uranium
19 without containment, you are going to have
20 uranium contamination around. It could be on
21 people's skin, their exposed skin, in the
22 workplace. It could be their hands. It may

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1 be their forearms. And based on that, that is
2 usually what's exposed.

3 And so, in a situation like that
4 where contamination of the skin would not
5 necessarily be unexpected and would not rise
6 to the level of notice that you would have a
7 recording of it each time it occurred, are you
8 accounting for doses that may have occurred
9 from that type of contamination appropriately
10 if you only use film badge reading, which
11 theoretically would read the skin from being
12 close to the uranium, but may not read the
13 dose that was because of some contaminated
14 uranium rust or something, uranium particles
15 that get on your neck or your forearm or
16 something.

17 So, that is it, and it is the same
18 here. It is the same in some of the gaseous
19 diffusion plants. It is the same at Bethlehem
20 Steel and maybe some other places as well.
21 So, that is the question.

22 MR. SIEBERT: This is Scott.

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1 I just want to point out that the
2 Work Group should already know about this
3 since the rest of the observation cases are
4 concerned and taken directly from SC&A's
5 review of the Fernald Site Profile. So, it
6 should already be covered in the Site Profile.

7 CHAIR GRIFFON: Yes.

8 MR. STIVER: Yes. So, maybe it is
9 not something that is unique to Fernald. It
10 is really a global issue.

11 CHAIR GRIFFON: Alright, 194.4.

12 MR. FARVER: It looks like another
13 one we suggest going over to the Fernald Work
14 Group.

15 CHAIR GRIFFON: Yes, yes.

16 MR. FARVER: About thorium doses.
17 "Failed to calculate internal doses
18 associated with potential exposure to
19 thorium."

20 CHAIR GRIFFON: Yes, I think that
21 is something --

22 MR. STIVER: Thorium is something

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1 that has been discussed --

2 CHAIR GRIFFON: Yes. Yes. So,
3 that makes sense.

4 MR. STIVER: -- in a lot of
5 detail.

6 CHAIR GRIFFON: I mean, I know
7 that is on the list of actions, anyway, right?

8 MR. STIVER: Yes.

9 CHAIR GRIFFON: Yes.

10 MR. STIVER: It is ongoing.

11 MR. KATZ: Are you closing these
12 with a reference to Fernald? Is that what you
13 are doing?

14 CHAIR GRIFFON: Well, is that --

15 MR. CALHOUN: Well, in this case,
16 it looks like we didn't include it because it
17 is comped.

18 CHAIR GRIFFON: Oh, okay. So, the
19 broad issue. So, in that case, definitely we
20 should close it, then, and refer it, yes. If
21 it is comped, I don't think we have to worry
22 about it.

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1 MR. CALHOUN: Yes. It was
2 assigned uranium, neptunium, plutonium, and
3 technetium internal dose; comp the case.

4 CHAIR GRIFFON: Okay.

5 MEMBER CLAWSON: But the Fernald
6 Work Group is still looking at that, though.

7 MR. HINNEFELD: They're looking at
8 thorium exposure.

9 MEMBER CLAWSON: Yes.

10 CHAIR GRIFFON: Yes. I mean, the
11 broad issue is still being referred.

12 MEMBER CLAWSON: Right.

13 CHAIR GRIFFON: Right.

14 MEMBER CLAWSON: Yes.

15 CHAIR GRIFFON: But this is
16 compensated, so there is no further --

17 MEMBER CLAWSON: Right, with this
18 case.

19 CHAIR GRIFFON: Right.

20 MEMBER CLAWSON: Yes.

21 CHAIR GRIFFON: 195.1.

22 MR. FARVER: Okay. This has to do

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1 with using the rotational geometry for certain
2 cancers on the external doses. And this has
3 been brought up before. And this is a
4 compensated case.

5 MEMBER CLAWSON: But is this a
6 bigger picture?

7 MR. FARVER: It is a recurring
8 problem, yes.

9 CHAIR GRIFFON: Right.

10 MR. FARVER: And the way the --
11 gosh, where is this worded? This is in
12 IG-001.

13 MR. STIVER: Yes, this is related
14 to the PA or anything other than --

15 MR. FARVER: Yes. It is worded
16 that, I believe you are supposed to justify
17 either using or not using -- would we use
18 rotational geometry or would we use isotropic
19 geometry in the external doses? When you
20 consider the dose correction factor, what
21 geometry do you use?

22 There is a blurb in there that

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1 says one may be more representative and more
2 claimant-favorable.

3 MEMBER CLAWSON: So, this is a
4 bigger picture than from what is on this for
5 this --

6 MR. FARVER: For this case, yes.

7 MEMBER CLAWSON: -- for this case?

8 MR. FARVER: This comes up time
9 and time again.

10 MEMBER CLAWSON: So would this be
11 considered a QA problem or?

12 MR. FARVER: Well, I don't know if
13 it is a QA problem. I think part of it is I
14 haven't seen it done where they have used the
15 rotation. And we do see it quite a bit where
16 they do not use the rotational; they use the
17 AP geometry or the isotropic.

18 MR. SIEBERT: They assume 100
19 percent AP?

20 MR. FARVER: I do not have this in
21 front of me right now. So, I do not know, but
22 I believe so.

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1 MR. HINNEFELD: Doesn't this go
2 back to the original issue with the geometry?

3 MR. STIVER: Yes, that is what I
4 was thinking; it gets back to the IG --

5 MR. HINNEFELD: IG-1 has a set of
6 different geometry dose conversion factors.
7 And there has been criticism, particularly of
8 the PA --

9 MR. STIVER: Yes, PA.

10 MR. HINNEFELD: -- as being
11 incorrectly valid. But there is PA and there
12 is AP rotational isotropic.

13 MR. STIVER: Yes.

14 MR. HINNEFELD: And in going
15 through this, in almost all cases, AP yields a
16 higher dose conversion factor for most organs.

17 MR. FARVER: For most.

18 MR. HINNEFELD: But not for
19 leukemia. Isn't that what we are talking
20 about? Maybe something else.

21 MR. FARVER: There's a few.

22 MR. HINNEFELD: There are two or

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1 three.

2 MR. FARVER: I think lungs is one.

3 MR. HINNEFELD: Yes, yes. So, the
4 remedy to get out from under this rather
5 cumbersome DCF regimen, and the fact that you
6 really cannot make very many good judgments
7 about what someone's geometry was in the
8 workplace -- you just don't know enough about
9 their orientation -- why don't we just use AP
10 because that is the highest one, except for
11 those cases when it is not the highest one?

12 MR. FARVER: Right.

13 MR. HINNEFELD: And now, it sounds
14 to me like the directions or the instructions
15 are not terribly clear.

16 MR. FARVER: If someone can pull
17 it up, the IG-01 and look at that little
18 statement, I believe it says for those certain
19 cancers you are supposed to use the higher
20 one, like rotational, unless you justify using
21 and saying it is not appropriate.

22 MR. HINNEFELD: Yes. And in this

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1 particular case, it would seem like there is
2 some confusion adopted by the dose
3 reconstructor by saying, "Well, if I choose
4 the highest one, it is like they were judging
5 that to be an overestimate," which it is
6 really not, which is really the instructions,
7 "This is what you are to do," is use the
8 highest one.

9 And so, they said that "This is a
10 compensable case. I don't want to use an
11 overestimate for a compensable case. And so,
12 I'll use this lower one, and it is still
13 compensable. And so, I use that."

14 It sounds to me like that is what
15 went on here. And that, I think, is not the
16 correct decision to make. The correct
17 decision to make was the IG-1 says use
18 whichever one gives you the highest dose,
19 regardless of outcome. That is what it says,
20 I believe.

21 So, I think there was a mistake in
22 interpretation of that. So, it may have to do

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1 with how clear the instructions are.

2 MR. FARVER: Right. And then,
3 really, what I said here was we will accept it
4 for this case because it is compensated,
5 because I can understand that. But I believe
6 there is a statement saying that, if you do
7 not use the higher ones, you are supposed to
8 justify why you didn't.

9 MR. HINNEFELD: Right.

10 MR. FARVER: And we do not say
11 that, see that sentence anywhere.

12 MR. HINNEFELD: Yes.

13 MR. FARVER: We do see this come
14 up quite a bit where they don't use the
15 rotational, but we don't see any statement
16 saying why.

17 MEMBER CLAWSON: Right. The
18 statement is what was missing.

19 CHAIR GRIFFON: Okay, but it is
20 closed. I think it is closed.

21 MS. BEHLING: Excuse me. This is
22 Kathy Behling.

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1 CHAIR GRIFFON: Yes?

2 MS. BEHLING: There was a table
3 added. I am not sure if it is already in Rev.
4 2, but I know it is certainly in Rev. 3 of the
5 IG-001, the internal -- guide. And it is
6 Table 4.1(a), and that is exactly what you are
7 talking about right now, the correction
8 factors for rotational isotropic for bone and
9 lung.

10 And since this was added, as Doug
11 is saying, we see this occasionally or we have
12 seen it routinely. I don't believe that there
13 has ever been a PER associated with this
14 change. And I am wondering if that shouldn't
15 be the case, to go back and look at these
16 certain types of cancer and see if these
17 correction factors were applied.

18 CHAIR GRIFFON: That is a good
19 point. And it is probably only a few cancers,
20 right, like you said, that would use the
21 rotation or should use the rotation.

22 We are thinking about it, Kathy.

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1 MS. BEHLING: Okay.

2 MR. HINNEFELD: I am making a
3 note. I am making a note. I am not sure I am
4 smart enough to answer that today, but we are
5 making a note to go back and figure out where
6 we --

7 MEMBER KOTELCHUCK: Where is that
8 discussed? What is the reference for that
9 rotational versus AP?

10 MS. BEHLING: I am looking at --

11 MR. KATZ: IG-001.

12 MS. BEHLING: I am looking at page
13 39 of Revision 3 of IG-001, and it was dated
14 November 21st, 2007. And I am not sure if it
15 was introduced in Rev. 2 or not. I will try
16 to go back and find that.

17 MR. KATZ: You don't need to
18 because DCAS is going to go back and look at
19 this anyway, Kathy.

20 MR. CALHOUN: Right. Yes, that
21 should be picked up in the PER.

22 MS. BEHLING: Okay. Thank you.

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1 MR. KATZ: So, maybe we could just
2 hear what came up looking at this at the next
3 meeting.

4 So, do you want to leave this
5 open? Do you want it closed?

6 CHAIR GRIFFON: I think it is
7 closed for that case.

8 MR. KATZ: Yes. Okay.

9 CHAIR GRIFFON: So, then, NIOSH is
10 looking at the general issue.

11 MR. KATZ: Yes.

12 CHAIR GRIFFON: Yes, yes.

13 MR. KATZ: Okay.

14 CHAIR GRIFFON: 195.2.

15 MR. FARVER: The DR report said
16 they are using the 95th percentile of the
17 neutron-to-photon ratio, and what they
18 actually used for the geometric mean. And
19 NIOSH gives a good explanation of it.

20 Basically, all we can say is it
21 should have been caught in the peer reviews.
22 This is a QA issue. There is really nothing

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1 further we can do.

2 CHAIR GRIFFON: Okay. So, it is
3 closed but a QA, yes.

4 195.4.

5 MR. FARVER: 195.3.

6 CHAIR GRIFFON: Oh, I'm sorry.

7 MR. FARVER: Which I am going to
8 defer until the next meeting because I want to
9 look at those files that they mention.

10 CHAIR GRIFFON: I knew that.
11 That's why I said --

12 (Laughter.)

13 Okay. 195.4.

14 MR. FARVER: Internal dose from
15 cesium was not included. Basically, it looks
16 like there was some whole-body counts that
17 were slightly greater than the fallout levels
18 listed in the TBD. And we thought they should
19 have been calculated as an occupational dose.

20 However, the case was compensated, and the
21 dose from that was not needed.

22 MEMBER KOTELCHUCK: We are on

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1 what, 195?

2 MR. FARVER: 195.4.

3 MEMBER KOTELCHUCK: Okay.

4 MR. FARVER: We also think the DR
5 report should have said that the cesium was
6 not necessary, like they put in sometimes
7 saying it is already beyond the 50 percent and
8 they don't really need it. But this does come
9 up occasionally, the cesium levels again.

10 MEMBER CLAWSON: This is still
11 Fernald, right?

12 MR. FARVER: It is probably
13 Hanford.

14 MR. CALHOUN: It is multiple
15 sites.

16 MR. FARVER: Okay.

17 CHAIR GRIFFON: When you say
18 "comes up frequently" --

19 MR. FARVER: Well, occasionally.

20 CHAIR GRIFFON: Oh, occasionally?

21 MR. FARVER: This question about
22 the cesium levels.

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1 CHAIR GRIFFON: Okay.

2 MR. FARVER: And they describe
3 some, let's see, "This is described in the TBD
4 as a condition for classifying a cesium-137
5 intake as occupational, since the results only
6 technically meet one of the two conditions for
7 classifications, but don't meet any of the
8 conditions for classification as
9 occupational."

10 The correct classification is not
11 plainly evident. And I think that is the key
12 thing that we run into occasionally where the
13 answer is not clear.

14 CHAIR GRIFFON: Right, right. I
15 mean, this kind of thing does look like a Site
16 Profile issue if it was one site. I think
17 Grady said it was multiple sites.

18 MR. CALHOUN: It is.

19 MR. FARVER: It is, but I think
20 the cesium levels are in the Hanford TBD.

21 CHAIR GRIFFON: In the Hanford
22 part of it, yes.

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1 MR. HINNEFELD: This sounds like
2 Hanford.

3 CHAIR GRIFFON: Yes, it sounds
4 like Hanford, yes. And I am sure this issue
5 is on the Hanford Site Profile radar, right?

6 MR. HINNEFELD: Well, depending on
7 the year that we are talking about. The SEC
8 is up through, what, '82?

9 MR. FARVER: Yes, '82, isn't it?
10 I think it is '82.

11 MR. HINNEFELD: Yes, depending on
12 the year, if there is an SEC, it might be in
13 recent years.

14 CHAIR GRIFFON: Yes. Well, I
15 think it is closed for here.

16 MR. FARVER: I think so.

17 CHAIR GRIFFON: Yes.

18 MR. FARVER: I don't think we can
19 go any further on this.

20 MEMBER CLAWSON: But would this be
21 referred to the Hanford Work Group or --

22 MR. STIVER: Well isn't this a

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1 situation where whenever you have a fission
2 product dose determination, this type of a
3 thing would apply, whether it is background
4 from fallout or an elevated level of one of
5 the components.

6 CHAIR GRIFFON: Yes.

7 MEMBER CLAWSON: But what Stu says
8 is true; we have got an SEC in that area, but
9 if they don't fall under the SEC, wouldn't
10 this --

11 CHAIR GRIFFON: Yes, or how they
12 are handling it beyond the SEC period.

13 MR. STIVER: Yes, yes. Past the
14 SEC or for non-compensable cancers.

15 MEMBER CLAWSON: So, this really
16 ought to be made to the Hanford Group.

17 CHAIR GRIFFON: Or the broad issue
18 could be referred, yes. I just think they
19 have it already, but, yes, we can do that.

20 MR. FARVER: And I don't know if
21 the Hanford TBD, is that going under some
22 modifications?

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1 MR. HINNEFELD: Yes, it kind of
2 goes stepwise as Classes are added.

3 MR. STIVER: So, the latest was
4 2010.

5 MR. HINNEFELD: I think we just
6 did one.

7 MR. STIVER: Yes.

8 MR. HINNEFELD: We just did one.

9 MR. SIEBERT: Yes, Stu, the new
10 one we just did only incorporated the SEC
11 wording.

12 MR. HINNEFELD: Yes. So, it
13 didn't address this.

14 MR. SIEBERT: There were no new
15 changes.

16 CHAIR GRIFFON: Alright. So,
17 going on? 196.1. There is a question of
18 revising and distributing workbook tools
19 without verifying them. If the calculations
20 are correct, then, it is certainly of interest
21 to us.

22 Maybe we can step back. Can you

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1 describe this? What is this? What site is
2 it?

3 MR. CALHOUN: That is Hanford.

4 MEMBER CLAWSON: It is Hanford?

5 CHAIR GRIFFON: Yes.

6 MR. CALHOUN: Do you have any more
7 details on that one, Scott?

8 MR. SIEBERT: No. When we made
9 that comment a year ago, it was we were
10 looking at that issue. And that is part of
11 what we discussed over the various
12 presentations we have given over the last
13 year.

14 CHAIR GRIFFON: Yes.

15 MR. SIEBERT: So, that is really
16 what we were focusing on pointing out, that we
17 are looking at the situation, doing QA/QC
18 issues, and, you know, we have presented to
19 you what we do with tools.

20 MR. FARVER: And I think our big
21 concern here is that we see workbook errors.
22 We see, whether it is a calculation that is

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1 wrong, whether it is a divide by bias, or
2 something that shouldn't be there, we are
3 seeing that. Now, to us, that indicates there
4 is a problem somewhere, if we are seeing
5 errors in the workbook.

6 CHAIR GRIFFON: Right. And that's
7 why we are raising these things in aggregate,
8 too, where NIOSH has prepared a new QA program
9 into effect.

10 MR. STIVER: Yes, we discussed
11 this particular issue in relation to that.

12 CHAIR GRIFFON: Right.

13 MR. STIVER: Validation and
14 verification of tools --

15 CHAIR GRIFFON: Right, right.

16 MR. STIVER: -- as they were
17 generated.

18 MR. FARVER: That is what this one
19 would fall under.

20 MR. STIVER: Yes.

21 CHAIR GRIFFON: So, for this
22 particular one, I think it is closed. Is that

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1 right?

2 MR. FARVER: Yes, because I am not
3 sure we can do any more on it other than what
4 we are doing.

5 CHAIR GRIFFON: Right.

6 Okay. 197.

7 MR. FARVER: 197.1. "NIOSH did
8 not appear to use appropriate procedure for
9 recorded neutron dose."

10 I think it was a good explanation
11 of the modification factor that was used. And
12 basically, after reading that and re-looking
13 at the file, we agree with them and suggest we
14 close this case.

15 MR. KATZ: You are withdrawing the
16 comment, in other words?

17 MR. FARVER: Yes. Because what it
18 was, was we didn't understand how they came up
19 with that number.

20 MR. KATZ: Okay.

21 CHAIR GRIFFON: Right. So, yes.

22 Okay. Moving on.

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1 MR. FARVER: The next one is
2 197.2. "NIOSH did not account for all missed
3 shallow dose. Shallow dose was not calculated
4 for '73, '78, '77, and '79." And that was
5 done in error.

6 Their response is that OTIB-17 has
7 been implemented and should take care of it.
8 I mean, I understand it was a QA error. They
9 didn't calculate the doses when they should
10 have. And the only question is, how is this
11 prevented from happening again?

12 I don't know if that will take
13 care of it, implementing OTIB-17.

14 MR. SIEBERT: The answer is the
15 new 2012 answer --

16 MR. FARVER: Right.

17 MR. SIEBERT: -- in which the
18 application of OTIB-17 has been integrated
19 into all the external tools. So, it is
20 already in there, so this won't happen again.

21 This claim was done prior to that
22 being implemented in the tools but after

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1 OTIB-17 went live.

2 MR. FARVER: Okay.

3 MR. SIEBERT: So, we had to do it
4 off to the side back then, but it has been
5 implemented in all the tools since.

6 MR. FARVER: Okay. We will go
7 ahead and close that one, in spite of that
8 explanation.

9 CHAIR GRIFFON: Yes, I think it is
10 closed.

11 MR. FARVER: Yes.

12 197.3. "NIOSH did not use the
13 correct procedure for unmonitored photon
14 dose." And it has to do with -- well, I am
15 going to have to go back and look at -- they
16 refer to OTIB-52.

17 MR. SIEBERT: This one is the
18 factor of 1.4 being applied --

19 MR. FARVER: Right.

20 MR. SIEBERT: -- with the doses.
21 And the question really became, when you
22 looked at a year-by-year basis, you couldn't

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1 back out the 1.4 factor when you looked at the
2 coworker.

3 And our response to that is,
4 basically, the fact that it is not a 1.4
5 against all the coworker, because coworker
6 includes measured and missed dose. And the
7 1.4 factor only applies to the measured
8 portion of it.

9 So, the overall factor, when you
10 have measured and missed mixed together like
11 you do in coworker studies, will fluctuate
12 between 1.0 and 1.4, which is exactly what you
13 see.

14 MR. FARVER: Okay.

15 MR. STIVER: Alright. That makes
16 sense.

17 MR. FARVER: And is this contained
18 in a workbook?

19 MR. SIEBERT: No, that
20 information, how it is done is in OTIB-52.
21 And then, it applies within the coworker
22 studies that are done, either within the TBD

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1 or the separate OTIB for those that have a
2 separate OTIB.

3 MR. FARVER: Okay. I would still
4 like to go back and look at this one.

5 MR. STIVER: Scott, this is John
6 Stiver.

7 Just kind of a little sidebar
8 here. This is applicable to something we will
9 be talking about tomorrow, which is our case
10 reviews or PER-14, which gets back to TIB-52.

11 And the question being, are these workbooks
12 that actually show how these measured and
13 miscalculations that were applied for the
14 different sites available? And if so, can we
15 get them?

16 MR. SIEBERT: Are you asking the
17 calculational workbooks that created the work
18 that --

19 MR. STIVER: Either that or the
20 tables and the input, so that our reviewer
21 could actually see that, indeed, they were
22 done correctly. Because just looking at the

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1 tables in the individual Technical Basis
2 Documents, it is not clear how those numbers
3 were derived.

4 MR. CALHOUN: Is that what you
5 guys mean about --

6 MR. STIVER: Yes, we had an email
7 discussion.

8 MR. CALHOUN: Because, John, I got
9 a G2K in on that --

10 MR. SIEBERT: Okay. That is what
11 I --

12 MR. CALHOUN: -- just to find out
13 what the extent of that would be, because it
14 was more than just the workbooks. There was
15 something about almost raw data that was --

16 MR. STIVER: Yes, I will have to
17 go back and look at the email string.

18 MR. CALHOUN: I just want to make
19 sure, you know, see how much it is going to
20 impact here.

21 MR. STIVER: Alright. I don't
22 want to take any more time here. We can talk

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1 about it tomorrow.

2 MR. CALHOUN: Right, right. Okay.

3 MR. STIVER: But since we were on
4 that point, I thought I would bring it up.

5 MR. CALHOUN: Yes.

6 CHAIR GRIFFON: Okay. So, we will
7 leave that open, pending you guys further
8 looking at it.

9 MR. STIVER: Okay.

10 CHAIR GRIFFON: 200.1.

11 MR. FARVER: 200.1. "The DR
12 report did not evaluate the employee's urine
13 bioassay result."

14 Oh, they did not evaluate the
15 urine bioassay. Instead, they just used a
16 hypothetical urine bio based on hypothetical
17 urine bioassay measurements. And it was not
18 explained or discussed in the DR report.

19 So, we basically said, "Why didn't
20 you use the results that you had?" And I
21 think what this basically comes down to is a
22 QA issue, why it wasn't caught.

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1 MR. CALHOUN: Is this Case No.
2 200?

3 MR. FARVER: 200.

4 MR. CALHOUN: Well, also, it is
5 something that we wanted to look for back in
6 2006. You know, it was an overestimate. We
7 knew it would be an overestimate. Now we tend
8 not to overestimate as much. We are trying to
9 get away from overestimating as much as we
10 did.

11 MR. FARVER: But you wouldn't
12 normally overestimate if you had the bioassay
13 results, would you?

14 MR. CALHOUN: We have, yes. Sure.
15 It is like assuming that somebody has 52
16 weeks of missed doses on their external badge
17 without looking at their badges, and they may
18 only have had quarterly badge exchanges.

19 MR. FARVER: Okay.

20 MR. CALHOUN: Yes, we have done it
21 in the past. We are getting away from it,
22 internally and the external.

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1 Scott, I don't know if you have
2 got any more on that.

3 MR. SIEBERT: No, I agree
4 wholeheartedly.

5 MR. CALHOUN: Okay.

6 CHAIR GRIFFON: Is there any
7 mores?

8 MR. FARVER: I don't know we can
9 go any more on that.

10 CHAIR GRIFFON: Right.

11 MR. CALHOUN: And another point
12 about that one is it was above 45. Just
13 because it is above 45 now, that would push
14 you into a best estimate territory, and that
15 would go away. They wouldn't have any more.

16 MR. SIEBERT: What about these
17 questions about were the data considered? The
18 second concern that was raised about the peer
19 review?

20 MR. FARVER: Those are questions
21 that are on the peer review checklist form.
22 So, I would think that, if someone looks at

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1 those, they should clue them in. One of the
2 questions, are all positive bioassays
3 considered? Were all internal radionuclides
4 considered?

5 MR. CALHOUN: Yes, I can't answer
6 that now. I think Scott has got more on that.
7 But it was six years ago. I think we have
8 grown a lot since then.

9 MR. SIEBERT: Yes, I can tell you,
10 the peer reviewer, if the urine samples, all
11 the bioassay was below detection, just like
12 Grady said, at that time, using a hypothetical
13 overestimate to get an answer to the claimant
14 in a more expeditious manner, that was not
15 unusual. So, the peer reviewer wouldn't
16 question that approach because that was a
17 valid approach at the time.

18 MEMBER CLAWSON: This is when we
19 were trying to push through a backlog of
20 cases. So, we would overestimate? Okay.

21 CHAIR GRIFFON: I mean, it is a
22 good QA question.

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1 MR. FARVER: Yes.

2 CHAIR GRIFFON: I mean, I don't
3 disagree with what Scott said, but if I am a
4 peer reviewer and I have that question come
5 up, all positive bioassay samples considered,
6 I don't just check "yes," if they weren't, you
7 know. I don't know. I mean, if that is on
8 your list to do as a peer reviewer, I wouldn't
9 just like dismiss it and say, "Yes, sure they
10 were."

11 MR. STIVER: Has Form 41 also been
12 updated to kind of coincide with the new
13 approaches?

14 MR. CALHOUN: I don't know that.
15 Scott would have to answer that one.

16 CHAIR GRIFFON: Yes. So, I don't
17 know that we can do much more with this,
18 but --

19 MR. FARVER: Oh, I don't think so.

20 CHAIR GRIFFON: But it is a QA,
21 yes.

22 MR. FARVER: It is kind of a pet

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1 peeve I have with that checklist form. You
2 know, I think it is very good and very useful,
3 if it is used.

4 MEMBER MUNN: Well, the question
5 arises, of course, when you see something like
6 this, how thorough a check do you anticipate
7 that a peer reviewer is going to do?

8 MR. SIEBERT: Well, I do want to
9 point out that the dose reconstruction report
10 does clearly state that no samples were found
11 that were above detection. So, when it comes
12 to a peer reviewer looking at: were all
13 positive bioassays entered?

14 CHAIR GRIFFON: Okay. Alright.

15 MR. SIEBERT: We would agree that
16 they already looked at it and said there
17 weren't any.

18 CHAIR GRIFFON: Okay. Good point.

19 MEMBER MUNN: Yes.

20 CHAIR GRIFFON: Yes.

21 MEMBER MUNN: And I wouldn't
22 anticipate that a peer reviewer would go back

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1 to all of the raw data to try to -- I don't
2 know, but that doesn't seem reasonable.

3 CHAIR GRIFFON: I think I like
4 Scott's answer on that anyway.

5 Okay. Let's move on to the next
6 one.

7 MR. FARVER: 200.2. "The DR
8 report does not properly address incidents
9 identified in the CATI report."

10 And on the yellow SC&A response,
11 we just give a little excerpt from the DR
12 report. "Records of the telephone interviews,
13 as well as the monitoring records provided
14 were evaluated carefully by the dose
15 reconstructor. No records of involvement in
16 radiological incidents were contained within
17 these records.

18 "But during the telephone
19 interview with the employee's children, they
20 identified an incident believed to have
21 occurred in '52." And that comes up with a
22 couple of different incidents with a couple of

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1 different siblings.

2 MEMBER CLAWSON: Ted, what site is
3 this on?

4 MR. FARVER: This looks like it is
5 INEL.

6 MR. HINNEFELD: It is INEL.

7 MR. FARVER: This is the 1960.

8 MEMBER MUNN: This was SL-1.

9 MR. SIEBERT: This is Scott.

10 I mean, it was done in 2006. I
11 mean, I hate going back to that answer, but I
12 believe that was prior to the time where we
13 specifically start calling out everything in
14 the CATIs to clarify to the claimants that we
15 were addressing their concerns. The dose
16 reconstructor was really looking into actual
17 incident information. So, once again, I agree
18 wholeheartedly it would be wise to have more
19 in the dose reconstruction report to address
20 that.

21 MR. FARVER: Well, that is okay,
22 except the first sentence says, "The records

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1 of the telephone interview." Now, to me, that
2 is the CATI, isn't it?

3 MEMBER MUNN: It is supposed to
4 be.

5 MR. HINNEFELD: The issue here is
6 that this was a deficiency in what we
7 considered deficiencies that we have
8 identified and fixed since this was done.

9 MR. FARVER: Probably. It is an
10 early case.

11 CHAIR GRIFFON: When did you do
12 the fix? It is hard to remember.

13 MR. HINNEFELD: Well, it was a
14 number of years ago.

15 CHAIR GRIFFON: Yes.

16 MR. HINNEFELD: But it was because
17 of these kinds of discussions.

18 CHAIR GRIFFON: Right. But I am
19 just wondering because now we are into 2006.
20 I think it was still after this?

21 MR. HINNEFELD: I think it was
22 probably after this.

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1 CHAIR GRIFFON: I can't remember.

2 MR. HINNEFELD: That is pretty
3 early; 2006 is pretty early.

4 CHAIR GRIFFON: Yes.

5 MR. FARVER: There is nothing more
6 we can do on this one.

7 CHAIR GRIFFON: No. Right. Yes.

8 MR. HINNEFELD: I believe we have
9 fixed this.

10 CHAIR GRIFFON: I think it is
11 fixed, yes. Okay.

12 MEMBER CLAWSON: Would it be too
13 much to ask, how did we fix it, though? Was
14 it --

15 MR. HINNEFELD: It was because of
16 findings from this Subcommittee that we,
17 NIOSH, sent instructions to ORAU that said,
18 "You have to address each of the items in the
19 CATI." And it might be, I mean, people will
20 mention in the CATI, "Well, I was exposed to
21 verillium," and things like that.

22 It doesn't matter. You have to

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1 say that they said they were exposed to
2 beryllium, which would not affect the dose
3 reconstruction.

4 MR. FARVER: And I will say, the
5 recent cases we looked at are much better.

6 MR. HINNEFELD: So, I think this
7 is an issue that we agreed was an issue, and
8 we have since fixed.

9 MR. STIVER: Yes, it was a
10 snapshot in time six years ago.

11 MR. HINNEFELD: Yes.

12 MR. STIVER: Things have improved
13 considerably since then.

14 CHAIR GRIFFON: Now there is still
15 a question. I mean, on a case-by-case basis,
16 there might still be a question where SC&A or
17 we don't think they adequately addressed --

18 MR. HINNEFELD: Yes, I don't read
19 every dose reconstruction. I don't know that
20 they all --

21 CHAIR GRIFFON: Right.

22 MR. HINNEFELD: -- are what I

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1 wonder consider adequate.

2 CHAIR GRIFFON: Right.

3 MR. HINNEFELD: But, yes, the
4 instructions were, if it is mentioned in the
5 CATI, you have to describe in the dose
6 reconstruction how it was considered.

7 CHAIR GRIFFON: At least respond
8 to it in their -- right.

9 MR. HINNEFELD: How it was
10 considered or why it didn't happen.

11 CHAIR GRIFFON: Whether it is
12 adequate, that might be up for debate. Right.
13 Okay. Alright.

14 201.1.

15 MR. FARVER: Okay. "Reviewer
16 questions whether all records were provided."

17 This is in vivo records.

18 MEMBER CLAWSON: This is a new
19 case, correct?

20 MR. FARVER: Pardon?

21 MEMBER CLAWSON: This is not the
22 INL anymore?

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1 MR. FARVER: This is a different
2 case, but I do not know what site it is.

3 MR. CALHOUN: It is INEL as well.

4 MR. FARVER: Another INL case.

5 MEMBER CLAWSON: Well, that's
6 fine.

7 MR. FARVER: Okay. Apparently,
8 the DOE records say there should be a 1974
9 whole-body count, but there are none. I don't
10 know exactly. I do not have the case in front
11 of me.

12 (Pause.)

13 Keep going. Wait a minute. Hang
14 on.

15 MEMBER MUNN: You either have the
16 records or you don't, right?

17 MR. FARVER: Well, you could have
18 the records and not provide them.

19 It should have been before. Just
20 keep going. Look for a file.

21 MEMBER MUNN: Certainly, it is not
22 crystal-clear.

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1 MR. FARVER: That is 201.

2 MEMBER MUNN: There might be
3 another record somewhere, but how can one
4 check to see if there is another record
5 somewhere, other than what has already been
6 done? How can you do anything about that?

7 MR. FARVER: Well, I don't know.
8 You could ask them if they sent all the
9 records.

10 MEMBER MUNN: Yes. On the other
11 hand, if one of the record reports has a
12 mistaken date on it, as has been implied here
13 but not substantiated, then --

14 MR. FARVER: Well, we will try to
15 substantiate it.

16 MEMBER MUNN: How do you do that?

17 MR. CALHOUN: The case was
18 revised, it looks like, since you guys
19 reviewed it. I am trying to figure out if
20 anything changed.

21 MR. FARVER: Okay. This also
22 comes back to the CATI report, apparently,

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1 where the employee states that, after an
2 incident, an in vivo measurement was taken.
3 Apparently, it was a documented incident in
4 March of '73.

5 Once again, this comes back to
6 what the employee says, and there was no
7 record. So, I don't know what you do.

8 CHAIR GRIFFON: And they are
9 saying there was a record in '73, but you are
10 saying it looks like it is '93?

11 MR. FARVER: I think it is '93 --

12 CHAIR GRIFFON: Yes.

13 MR. FARVER: -- just from the type
14 of form it is.

15 CHAIR GRIFFON: Right.

16 MEMBER MUNN: You think it was '93
17 instead of '73?

18 MR. FARVER: Yes.

19 MEMBER MUNN: And there is no
20 indication. There wasn't a high badge reading
21 in '73.

22 MR. FARVER: Yes, there was --

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1 MEMBER MUNN: But no indication of
2 an in vivo count.

3 MR. FARVER: Other than the
4 employee saying that he received an in vivo
5 count.

6 CHAIR GRIFFON: Has NIOSH looked
7 at this, this '73 versus '93 question?

8 MR. CALHOUN: Well, I can tell you
9 that the revised DR that you guys -- that was
10 done afterwards -- talks about '73 where it
11 talks about external.

12 Stated in the interview Mr. So-
13 and-So received approximately 1800 to 1900
14 millirem. This is captured in DOE records for
15 March 1973, 1900 millirem.

16 CHAIR GRIFFON: External.

17 MR. CALHOUN: It talks about
18 external, yes.

19 And I will see if we recorded a
20 request of any other additional information.

21 MR. FARVER: But I think if you
22 look in the CATI --

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1 MR. CALHOUN: These are all skin
2 cancers, too, by the way.

3 MR. FARVER: I think if you look
4 in the CATI report, it will mention that he
5 had an in vivo measurement.

6 MR. SIEBERT: Yes, in the CATI
7 report he does mention an incident, actually,
8 he says, in 1972, and he does say that the in
9 vivo count was done. However, there is
10 nothing in the record stating so.

11 MR. FARVER: Okay. And that is
12 why we came up with our finding that we
13 request and question whether all the records
14 were provided.

15 MR. STIVER: It is going to matter
16 how far you are going to go in trying to
17 verify what is in the CATI.

18 MR. CALHOUN: Right.

19 MR. STIVER: I mean, if you don't
20 find it in the records --

21 MR. CALHOUN: Right.

22 MR. STIVER: -- you do due

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1 diligence to get that, what else can you go
2 with?

3 MR. CALHOUN: Right.

4 CHAIR GRIFFON: Right.

5 MR. STIVER: You would have to
6 make a comment, I guess, as Stu had mentioned
7 earlier in the CATI.

8 MR. FARVER: Right. That is what
9 you would expect, just to see the comment
10 saying it was not found in the records.

11 MR. CALHOUN: Well, we captured
12 the incident. You know, that is in there.
13 But, as far as somebody saying that they were
14 monitored in a certain year and they weren't,
15 according to the records, maybe before or
16 after that, I doubt that we would ever capture
17 that. You know, that almost gets to the point
18 of reproducing the CATI and the DR.

19 MEMBER MUNN: But surely the badge
20 reading was incorporated into the DR.

21 MEMBER CLAWSON: Is this Idaho
22 still?

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1 MR. STIVER: Yes.

2 CHAIR GRIFFON: To me, I think
3 that is as far as you can take it.

4 MR. FARVER: I don't think you can
5 go anywhere on this.

6 CHAIR GRIFFON: Yes, yes, yes, I
7 think it is closed. I think it is closed.

8 MR. STIVER: You have chased it
9 down as far as you can.

10 CHAIR GRIFFON: Yes, yes.

11 MR. FARVER: I mean, you
12 understand why we wrote it up the way we did.

13 It was because there is a little discrepancy
14 in the CATI with what was in the report.

15 CHAIR GRIFFON: Yes. Okay.

16 201.2.

17 MR. FARVER: 201.2. Really, this
18 is a repeat of one that we identified during a
19 review of the Site Profile for INEL about the
20 accuracy of the shallow-dose measurements.
21 So, it really is like the -- it is captured in
22 our Site Profile review findings. It is not a

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1 new issue.

2 CHAIR GRIFFON: Yes.

3 MEMBER MUNN: And it can't be
4 taken any further, right?

5 MR. FARVER: Not by us.

6 MEMBER MUNN: Yes. It has been
7 done. You've got it.

8 CHAIR GRIFFON: So, it has been
9 referred to where? To the Site Profile Group?

10 MR. FARVER: Well, I don't know if
11 it has been referred to them. It is contained
12 in our Site Profile review.

13 CHAIR GRIFFON: It is in the Site
14 Profile, right.

15 MEMBER CLAWSON: The Work Group
16 will take care of it, right?

17 MR. FARVER: They should.

18 CHAIR GRIFFON: Does this have any
19 bearing on this case? I mean, it was a skin
20 dose case, right?

21 MR. CALHOUN: Yes.

22 CHAIR GRIFFON: A skin dose case.

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1 Non-comp?

2 MR. CALHOUN: I think it is non-
3 comp.

4 CHAIR GRIFFON: Yes.

5 MR. CALHOUN: 201, yes.

6 MR. FARVER: I mean, that site
7 finding could have a bearing on many cases.

8 CHAIR GRIFFON: Yes, yes. Well,
9 especially where this one is close.

10 MR. FARVER: Yes, but, I mean,
11 that Site Profile issue can have --

12 CHAIR GRIFFON: Right.

13 MR. FARVER: -- an effect on a lot
14 of cases.

15 CHAIR GRIFFON: So, I mean, my
16 only question here is, how do we handle it if
17 it is close and we are saying we are referring
18 this issue to the Site Profile? You know, it
19 is close. What is the percentage? What is
20 it?

21 MR. CALHOUN: Forty-nine.

22 CHAIR GRIFFON: Forty-nine.

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1 MR. STIVER: Forty-nine percent.

2 MR. CALHOUN: Well, wait a second.

3 It was 49, the one you reviewed. I have to
4 look. I don't know what it is now.

5 CHAIR GRIFFON: Oh. So, it may
6 have gotten reassessed?

7 MR. CALHOUN: It may have gotten
8 higher or lower.

9 CHAIR GRIFFON: Or lower, right.

10 MR. CALHOUN: It is comped, '52.

11 CHAIR GRIFFON: Okay. No further
12 action, closed. Thank you. That makes it
13 easy.

14 This 201, Observation 1, geometry.

15 Okay. So, yes, it is pretty self-
16 explanatory. But did NIOSH look at this at
17 all any further?

18 MR. CALHOUN: Is this Observation
19 1?

20 CHAIR GRIFFON: Yes.

21 MR. HINNEFELD: It seems to be
22 tied to OTIB-13, and there are active

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1 discussions about OTIB-13 going on now with
2 Procedures Subcommittee meetings.

3 CHAIR GRIFFON: And its relevance
4 to this site, though, I guess, right, to
5 Idaho?

6 MEMBER MUNN: Yes. That is the
7 question, I guess, is whether or not it is
8 applicable to INEL.

9 CHAIR GRIFFON: Yes. I mean,
10 maybe amongst other general questions that are
11 out there.

12 MEMBER MUNN: This is another
13 dosimetry, another geometry.

14 MR. HINNEFELD: Apparently, this
15 is a dosimetry geometry observation.

16 CHAIR GRIFFON: Yes.

17 MR. HINNEFELD: I don't know what
18 this person's special geometry was for this
19 work, but --

20 MR. FARVER: Well, in general,
21 OTIB-13 is just a way to correct from a chest-
22 worn dosimeter to people's hands.

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1 MEMBER MUNN: The hand.

2 MR. FARVER: So, you are
3 multiplying by in this case 2.2 and saying,
4 well, that is what the hand dose would be.
5 And so, they have this OTIB-13 out there for
6 this one site, Mallinckrodt.

7 Now is it applicable to INEL? Is
8 it applicable to other sites?

9 CHAIR GRIFFON: To other sites,
10 yes, that is --

11 MR. FARVER: Is there a general
12 policy on how to apply these geometric
13 correction factors?

14 MR. HINNEFELD: Yes.

15 MR. CALHOUN: Yes, there is an
16 overall TIB that addresses that, isn't there,
17 Scott? I am pretty sure. It might even be in
18 the glovebox.

19 MR. HINNEFELD: I think it is the
20 revision of this one.

21 MR. CALHOUN: Yes.

22 MR. STIVER: Yes, TIB-13 is going

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1 to be the topic of discussion tomorrow. It is
2 related to the glovebox scenario and the
3 modeling that took place to drive this factor.

4 And so, there is a little bit of discussion
5 about what the appropriate factor should be.

6 I believe, without jumping too far
7 ahead, that based on the latest analysis, that
8 we are pretty close in agreement with NIOSH,
9 based on whether what we were looking at was
10 just a film badge correction or the adjustment
11 for the incident radiation on the organ and,
12 also, the film badge. And so, that was quite
13 a contention there.

14 CHAIR GRIFFON: And it would be a
15 program-wide document?

16 MR. STIVER: Well, it is related
17 to TIB-13.

18 CHAIR GRIFFON: Yes. Yes.

19 MR. STIVER: To me, it is kind of
20 more generic, but it depends. You know, the
21 devil is always in the details of how you
22 model that particular glovebox --

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1 CHAIR GRIFFON: Yes.

2 MR. STIVER: -- what materials and
3 things are listed.

4 MR. HINNEFELD: There is a
5 glovebox TIB and, then, there is the special
6 geometry TIBs. So, the lathing and the source
7 on the floor and the source overhead. So, I
8 think 13 is the special geometry. I think it
9 was originally written for Mallinckrodt, but
10 the revision changed it into just a general
11 special program-wide. So, the fact that
12 Mallinckrodt is in the title of this TIB kind
13 of went away because it is generally --

14 CHAIR GRIFFON: So, I think we
15 will refer it to Wanda's, to the Procedures,
16 the question being the applicability broadly,
17 you know.

18 MR. HINNEFELD: Yes, yes.

19 CHAIR GRIFFON: Okay.

20 MEMBER MUNN: Yes, there is so
21 much commentary going on about --

22 CHAIR GRIFFON: You have already

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1 got that one, right, Wanda?

2 MEMBER MUNN: Yes, we have got
3 lots of geometry discussions going on.

4 CHAIR GRIFFON: You can tell me
5 the closeout on Thursday or Wednesday.

6 MEMBER MUNN: Sure.

7 (Laughter.)

8 CHAIR GRIFFON: Okay.

9 MEMBER MUNN: Don't hold your
10 breath on it.

11 (Laughter.)

12 CHAIR GRIFFON: Let's see, 202 --

13 MR. FARVER: 202.1. Improper
14 accounting of recorded photon dose.

15 Apparently, for two years, 1961
16 and 1963, the doses were entered incorrectly.

17 It is a QA problem, and I am not sure whether
18 they were entered incorrectly into the
19 workbook, I believe, but it is a QA problem.
20 Otherwise, we can't do much about it.

21 CHAIR GRIFFON: Okay. Yes, just
22 note it as a QA and close.

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1 MR. STIVER: The same applies to
2 .2.

3 MR. FARVER: .2 is a little
4 different. They have got the internal intake
5 in picocuries per year instead of picocuries
6 per day. Now that is a little bit of a
7 "oopsie".

8 (Laughter.)

9 CHAIR GRIFFON: Yes, a little bit.

10 MR. FARVER: You know, I think
11 something like that should get caught.

12 CHAIR GRIFFON: Yes.

13 MR. FARVER: You are off by a
14 factor of what, 365.

15 MEMBER RICHARDSON: So far, with
16 the blind reviews that NIOSH has done, none of
17 these types of issues have come up, is that
18 correct? The quality issues that we continue
19 to encounter with these older records?

20 MR. CALHOUN: No, we certainly
21 find things that are not perfect. We are
22 looking at more of the newer claims, though.

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1 So, we don't see as many of them.

2 CHAIR GRIFFON: We will have to --
3 and, David, I think you were on earlier when
4 they said online we have access to that
5 database. So, it might be worth looking at
6 that at some point in your leisure time.

7 And, I mean, I think at some point
8 on this Committee we are going to get some
9 sort of aggregate report out eventually, yes.

10 But that is something to watch.

11 202.2, did we do? Yes, it is QA
12 and close.

13 MR. FARVER: 205.

14 CHAIR GRIFFON: What are we up to,
15 205?

16 MR. FARVER: 205.1.

17 CHAIR GRIFFON: Yes.

18 MR. FARVER: "Missed dose was not
19 assigned for the Medina facility."

20 Agreed, now that the TBD is
21 available, missed dose would be assigned in
22 lieu of environmental dose that was assigned

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1 in Rev. 1 of the case.

2 Once again, it was just --

3 CHAIR GRIFFON: Would this have
4 made any difference for this case?

5 MR. CALHOUN: It was comped
6 already.

7 CHAIR GRIFFON: It was
8 compensated, yes, yes. Alright.

9 MEMBER MUNN: It is essentially
10 closed for it.

11 MR. FARVER: Yes, I would suggest
12 closing it because I don't know how to fix it.

13 MEMBER MUNN: Yes.

14 MEMBER CLAWSON: I think when we
15 did this, we didn't have Medina's TBD done.

16 MR. FARVER: Probably not.

17 MEMBER CLAWSON: Since then, we
18 have, what, been in 83.14?

19 MEMBER MUNN: Yes.

20 MEMBER CLAWSON: Plus, we did a
21 Site Profile CBD review of that, too.

22 MR. FARVER: Yes. I mean, it has

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1 changed since then.

2 MEMBER CLAWSON: Right.

3 MR. FARVER: I don't know how we
4 would fix it because it is already taken care
5 of in the new documents.

6 MEMBER CLAWSON: Right.

7 MR. STIVER: It is a deficiency
8 that has been corrected through changes to the
9 TBDs and the application of an SEC.

10 CHAIR GRIFFON: Okay. So, it is
11 closed here, right?

12 MR. SIEBERT: This is Scott.

13 I just want to point out that,
14 when that TBD was released, there was a PER on
15 the 65 claims that had been done previously
16 that were non-comp, and that was covered under
17 PER-27. So, that has been addressed.

18 CHAIR GRIFFON: Okay. Any more on
19 that? Doug, any more on that?

20 MR. FARVER: On 205.1?

21 CHAIR GRIFFON: Yes.

22 MR. FARVER: No.

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1 CHAIR GRIFFON: Okay. Moving on,
2 205.2.

3 MR. FARVER: Okay. I am trying to
4 find the case.

5 MEMBER MUNN: And wasn't the
6 response from last June adequate for us to
7 close this?

8 MR. FARVER: Bear with me. I am
9 trying to pull up the case report, so I can
10 give you a little bit more information.

11 MEMBER MUNN: Well, after the DR,
12 you had a decision. "This dose could have
13 been fine based on the badge cycle," but the
14 claim determination was compensable. In
15 addition, it was on the PoC. So, things have
16 changed, and it would be done differently now.
17 But, in any case, it wouldn't change the
18 outcome of the DR. Was that done?

19 The filing has achieved its
20 purpose.

21 CHAIR GRIFFON: Give them a second
22 to look, Wanda. They are looking at their

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1 original report.

2 (Pause.)

3 Why don't we take a 10-minute
4 break now. So, Doug can --

5 MR. FARVER: Oh, I have got it
6 now.

7 CHAIR GRIFFON: Oh, you got it?
8 Hold on. Alright. Alright. We got it. Here
9 it is. Wait for it, Wanda.

10 MEMBER MUNN: I'm waiting.

11 MR. FARVER: Okay. You will like
12 the outcome, Wanda, but we are going to get
13 there first.

14 How this came about was the
15 employees stated in the CATI report that they
16 wore a badge every day, wore film badges all
17 the time. This was at the Medina facility.
18 Okay?

19 And in our finding, we note that,
20 that that was in the CATI report. And also,
21 the DOE records listed x-ray and gamma film
22 badge results for the Medina facility,

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1 although those results were zero. But they
2 still had a list.

3 So, we thought that they should
4 have had some assignment for the -- I believe
5 it was for the Medina facility; yes -- more
6 frequent than I guess what they did. Okay?

7 And what really got me was their
8 initial response that said, "Well, workers
9 often confuse a security badge with a
10 dosimeter." And that is not true. I mean,
11 the guy had worked there, I think, for 30
12 years, and they know the difference between
13 security badges and dosimeters. So, I took
14 offense to that statement to begin with.

15 But, as it turns out, you know,
16 there is not much they could have done. They
17 could have done it a little differently. It
18 would not have affected the dose much. But
19 the point is, he did put it in there in his
20 CATI information, and I got the feeling it
21 just wasn't taken seriously.

22 MEMBER CLAWSON: This person

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1 worked at Medina and then transferred to
2 Pantex, I believe.

3 MR. FARVER: I think it was other
4 places.

5 MEMBER CLAWSON: Other places
6 beyond, because Medina was not around for that
7 long.

8 CHAIR GRIFFON: I mean, I found it
9 interesting; I think the first NIOSH response
10 sort of conceded that they should have done
11 it. You know, the current procedures, they
12 would have assigned more missed dose. But it
13 is compensated anyway. I think we could have
14 kind of closed it there, I mean except for
15 that statement that you --

16 MR. FARVER: Yes.

17 CHAIR GRIFFON: Yes, yes. I agree
18 with that point, but I think the idea, I think
19 they are saying, also, in that first part, not
20 the green response but the other part, that
21 the TBD, that was issued after this case was
22 completed, the 1-0 would have been assumed to

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1 be a summary dose and more missed dose would
2 have been assigned, is what they are saying,
3 right?

4 MR. SIEBERT: Correct. And this
5 would have fallen under that PER that we
6 mentioned earlier --

7 CHAIR GRIFFON: Right.

8 MR. SIEBERT: -- if it was less
9 than 50.

10 CHAIR GRIFFON: Right, right. So,
11 notwithstanding that security badge versus
12 dosimeter, I think there is not much more we
13 can do.

14 MR. FARVER: Oh, no, no, no. I
15 agree with closing it.

16 CHAIR GRIFFON: Yes. No, I think
17 it is a good point. A good point, yes.

18 MEMBER MUNN: Well, and besides,
19 it may have been worded improperly, but it may
20 not be completely erroneous, either. I am
21 sure that confusion has arisen and it probably
22 should have said, "Some have..." instead of

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1 "may".

2 CHAIR GRIFFON: Yes, yes, yes.

3 MEMBER MUNN: But that doesn't
4 change the fact that that has very little
5 bearing on what we actually are looking at
6 here, which is, did potentially a missed dose
7 get overlooked which would have changed the
8 outcome?

9 The problem has been cared for in
10 the revision that was issued. It is done.

11 MEMBER CLAWSON: It is done.

12 CHAIR GRIFFON: Yes, I think we
13 are okay with that one.

14 MR. FARVER: I think we can close
15 this one.

16 CHAIR GRIFFON: Alright.

17 MR. FARVER: Now we can break.

18 CHAIR GRIFFON: Well, wait a
19 second. There is one more for that case. Why
20 don't we do that?

21 MR. FARVER: Yes.

22 CHAIR GRIFFON: It is an

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1 observation. And then, we can take a break.
2 Maybe there are two more. Alright. Anyway,
3 while we are thinking Medina, 205, Observation
4 4.

5 MEMBER MUNN: A month and a half
6 of electrons.

7 MR. FARVER: I want time to check
8 those numbers.

9 CHAIR GRIFFON: Okay. Okay.

10 MR. FARVER: I mean, it is really
11 an observation; we don't really have to bother
12 with it, but I just want to check those
13 numbers.

14 CHAIR GRIFFON: Alright. For No.
15 4?

16 MR. FARVER: Yes.

17 CHAIR GRIFFON: And how about No.
18 5?

19 We will hold No. 4.

20 MR. FARVER: I don't know that
21 there is much we can do with No. 5. Is that
22 what we are going to talk about?

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1 CHAIR GRIFFON: Yes. Yes.

2 MR. FARVER: It is really just
3 pointing out that, you know, usually, they
4 don't report millirem, less than a millirem.

5 CHAIR GRIFFON: Okay.

6 MR. FARVER: But it looks like in
7 some instances they did. And mainly, it was
8 just to bring it to their attention.

9 CHAIR GRIFFON: Yes, yes, yes.

10 MR. FARVER: Yes. So, it is kind
11 of a "no, never mind," uh-hum.

12 CHAIR GRIFFON: Okay. So, there
13 is no action on that, right?

14 MR. FARVER: No.

15 MEMBER CLAWSON: Was that case
16 compensated?

17 CHAIR GRIFFON: Yes, yes.

18 MR. HINNEFELD: This is that same
19 case we have been talking about.

20 CHAIR GRIFFON: Compensated, yes.
21 Alright.

22 MR. KATZ: The previous was an

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1 observation, too.

2 CHAIR GRIFFON: Yes, yes.

3 MR. KATZ: I mean, do you really
4 need any follow-up? I mean, those are notes
5 to DCAS, in effect.

6 CHAIR GRIFFON: Yes. Well,
7 sometimes, quite frankly, your observations
8 have been as interesting, if not more, than
9 the findings. So, I don't know.

10 MR. KATZ: Okay.

11 CHAIR GRIFFON: You know, it is
12 all how they are being characterized, I think.
13 Let's look at the substance rather than the
14 category, I think. That is the way I have
15 been handling it.

16 MR. KATZ: Okay.

17 CHAIR GRIFFON: Alright. Let's
18 break. And I would say at least a healthy 10
19 minutes because I would love to go outside
20 maybe and get some fresh air.

21 MEMBER MUNN: That is probably a
22 good idea.

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1 CHAIR GRIFFON: Yes. Wake up.

2 MEMBER MUNN: Oxygen may help.

3 CHAIR GRIFFON: So, at least until
4 10 of 3:00.

5 MEMBER MUNN: Okay. Bye.

6 CHAIR GRIFFON: Bye.

7 (Whereupon, the foregoing matter
8 went off the record at 2:38 p.m. and went back
9 on the record at 2:54 p.m.)

10 MR. KATZ: Okay. We are going to
11 get started again, the Dose Reconstruction
12 Subcommittee.

13 CHAIR GRIFFON: Yes. Okay. We
14 are continuing with our work through the
15 matrix, on Case No. 206 now, 206.1.

16 We are hoping we may be able to
17 punch through a lot of this 9 set.

18 Go ahead, Doug; 206, I think is
19 where we left off, right?

20 MR. FARVER: 206?

21 CHAIR GRIFFON: Yes.

22 MR. FARVER: Let me find the case

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1 here.

2 MR. CALHOUN: And that is an NTS
3 non-comp, by the way, just looking, to staff
4 off.

5 MR. FARVER: And as I recall, this
6 is where there were, I think, like thousands
7 of other records that mentioned this person
8 that were not requested at the time, just
9 because there were so many.

10 And it was things like, I believe
11 he participated in many of the test shots.
12 So, it was information from different
13 logbooks, but there was a lot of extra
14 information. It was not requested because I
15 guess they did not think it was necessary.

16 MEMBER KOTELCHUCK: Even though it
17 was not compensated? It is one thing if they
18 were compensated.

19 MR. FARVER: Yes, and under the
20 initial NIOSH response, the decision was made
21 not to request the other monitoring data
22 unless the data was needed for resolution of

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1 an ambiguous compensability decision.

2 MEMBER KOTELCHUCK: Forty-three
3 percent might be viewed as ambiguous.

4 MR. FARVER: That is one way of
5 looking at it. But I don't know how much it
6 would have affected the doses. Of course, you
7 don't know because you don't have the data.

8 MR. HINNEFELD: The information we
9 did receive for some persons, external
10 exposure records and their bioassay records.
11 I believe they did bioassays. And then, we
12 had assumption of medical x-rays.

13 So, the kinds of things that NTS
14 has for all these shots are access log sign-
15 in's.

16 MR. FARVER: I think it is like,
17 yes, logbooks.

18 MR. HINNEFELD: Yes.

19 MR. FARVER: And some of them will
20 have dose rates.

21 MR. HINNEFELD: There may, in
22 fact, be some dose rate measurements.

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1 MR. FARVER: Yes.

2 MR. HINNEFELD: And there may be
3 some air-sampling results from a particular
4 entry, because records are kept sort of like
5 entry-levels, you know, per shot and, then,
6 the entries for the shot.

7 And so, these are retrievable, but
8 they are not readily retrievable. And so, DOE
9 doesn't, as a matter of routine, provide these
10 to us with our requests. They provide the
11 individual's external exposure measurements,
12 bioassay measurements, and medical, which we
13 believe is sufficient to do the dose
14 reconstruction.

15 The fact that, if you have got the
16 person's film badge record, whether they
17 signed into a shot re-entry 10 times that year
18 or 15 or 20 times that year, it doesn't really
19 matter if you have their exposure --

20 MEMBER KOTELCHUCK: That is
21 certainly true. On the other hand, you have
22 to be confident that those other data that you

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1 didn't seek has nothing about dose, right?

2 MR. CALHOUN: Those records
3 routinely have no dose readings.

4 MR. HINNEFELD: Individual dose
5 readings. You don't have to have
6 information --

7 MR. FARVER: No. It would be like
8 a dose rate measurement or, like you said, an
9 air-sampling result, or something like that,
10 that would be contained in that type of
11 information.

12 MEMBER CLAWSON: Some of these are
13 a best estimate and best estimate approach and
14 an IMBA calculation.

15 CHAIR GRIFFON: Can you tell me,
16 just to step back in the decision-making
17 process, what would you define as an ambiguous
18 compensability decision? Would that be
19 over --

20 MR. HINNEFELD: Well, it is -

21 CHAIR GRIFFON: Did you find that,
22 in other words?

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1 MR. HINNEFELD: -- not defined.
2 It is not defined on a percent basis.

3 CHAIR GRIFFON: Yes. It would be
4 more on a case-by-case --

5 MR. HINNEFELD: It would have to
6 be a situation where, for some reason, the
7 presence at a shot may cause you to make a
8 different interpretation of what their badge
9 reading was.

10 Perhaps a situation like this: a
11 person has skin cancers and was in an area
12 that was affected by what they called a
13 blowout, where the buried explosion wasn't
14 sufficiently contained and they have this
15 huge, you know, debris and stuff that settled
16 out on some people through the shots.

17 So, if a person was a member of
18 that, you know, was present at that shot,
19 then, theoretically, the presence there might
20 give you -- I mean, there might be records
21 associated with that -- in particular, with
22 surveying decontamination of the affected

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1 people -- that would be helpful to that.

2 MEMBER CLAWSON: Would this case
3 be a total best estimate?

4 MR. HINNEFELD: Well, at 43
5 percent, there could be some overestimating
6 approaches in there. I don't know whether
7 there is or not.

8 MEMBER CLAWSON: Yes, I was just
9 looking up above. Some of them were a best
10 estimate and some was best estimate approach.

11 MR. CALHOUN: I am trying to look
12 here. I clogged up my computer trying to
13 download some dosimetry.

14 CHAIR GRIFFON: I mean, this is
15 kind of in SC&A's court.

16 MR. FARVER: If it were me, I
17 probably would have started requesting some of
18 the records and looking at them, and at least
19 determine whether they would be useful or not.

20 You know, it looks like the employee's
21 bioassay results started in '63, yet he was
22 involved in, gosh, what's that, 20-or-so test

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1 shots from '61 through '65. So, I mean, there
2 is a long timeframe that there was no
3 bioassay.

4 MEMBER CLAWSON: So, he would have
5 been a part of Plowshare, all low shots.

6 MR. CALHOUN: Well, I imagine he
7 is comped to the SEC.

8 MR. HINNEFELD: If he has the
9 right cancer.

10 MR. CALHOUN: Leukemia.

11 MR. HINNEFELD: Oh, he is comped
12 then.

13 MR. FARVER: Yes, he is comped.

14 CHAIR GRIFFON: So, he is comped
15 anyway.

16 MR. HINNEFELD: Since this dose
17 reconstruction was done, we added classes
18 based on the internal exposures. So, that
19 internal essentially goes away because we have
20 determined that -- well, I think what we
21 determined, if we have got bioassay data for a
22 non-SEC case, we will agree with the person's

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1 bioassay data. I think that is what the
2 decision was, that we will do what we can, but
3 we can't give them that person's bioassay
4 data.

5 So, I mean, realistically, I just
6 don't -- you know, if you have the dosimetry
7 information and they badged everybody from
8 some date forward -- I forget what the start
9 date was.

10 MR. CALHOUN: They have external
11 early, well, back in the sixties. I don't
12 know when he started.

13 MR. HINNEFELD: At some date, they
14 started the practice of badging everybody who
15 got the mergers. So, you'll have his
16 dosimetry, his dosimetry information, and the
17 actual access. You know, how many times did
18 he enter after the shot doesn't seem to us to
19 be informative, particularly when you look at
20 the degree of what you are asking DOE to do to
21 provide these. I mean, it is expensive to get
22 these things.

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1 MR. FARVER: Right. And that is
2 why I said I would probably use a graded-group
3 approach and start looking at some of the
4 earlier data and see if it is useful.

5 MR. HINNEFELD: Yes.

6 MR. CALHOUN: I think we actually
7 have an idea of what they give us, because it
8 is usually the same. When we ask for that
9 additional data, it is going to be logbooks
10 that go with --

11 CHAIR GRIFFON: For each shot,
12 right, yes.

13 MR. FARVER: Yes, for shots, but
14 some of that still has useful information, you
15 know, if you have got dose rates and air-
16 sample results.

17 MR. CALHOUN: I don't think dose
18 rates in that area would trump dosimeter
19 results for that individual --

20 MR. STIVER: Yes, if you didn't
21 have --

22 MR. CALHOUN: -- because he is

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1 monitored throughout his employment, I
2 believe.

3 MR. STIVER: If you didn't have
4 dose rate, if you didn't have dosimetry
5 results, then you could back and --

6 MR. CALHOUN: Right.

7 MR. STIVER: -- and get the
8 contours and the overlapping fallout fields,
9 and get an idea of what the exposure could
10 have been, given a certain exposure scenario.

11 MR. FARVER: I think if my dose
12 rates were not consistent with my dosimeter
13 results, I would raise some questions.

14 MR. STIVER: Well, I can tell you
15 from experience that when you look at those
16 contour maps that they drew after these shots,
17 and they look very nice and smooth curves, and
18 you think they did a really good job, but when
19 you start overlaying ones taken in different
20 time periods and back-extrapolating, and you
21 have got all kinds of variations, huge
22 uncertainties and a factor of 10 of 100, even

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1 within a couple hundred yards from the shot on
2 these contour lines. So those dose rates might
3 be useful in kind of bounding the situation,
4 but in trying to really determine an exposure
5 rate or trying to correlate an exposure rate
6 for a given period of time out in a fallout
7 field to an integrating dosimeter reading that
8 might span a couple of weeks, it would be a
9 very difficult task.

10 That would be one of the reasons
11 you guys ended up going to an SEC --

12 MR. HINNEFELD: That is our
13 position.

14 MR. STIVER: -- is that you
15 couldn't do it. You just couldn't tease out
16 all those different components.

17 CHAIR GRIFFON: Okay. So, it is
18 now an SEC.

19 MR. STIVER: Yes, it is an SEC.

20 CHAIR GRIFFON: There is no more
21 to say on this one, yes. Yes.

22 MEMBER CLAWSON: But, also, too,

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1 there were some shortcomings in the Site
2 Profile which we are in the process of now --
3 NIOSH has made several corrections to it, and
4 we are rechecking that as far as abilities,
5 and so forth.

6 So, I think, myself, I think this
7 is kind of taken care of in all of that.

8 CHAIR GRIFFON: Okay.

9 MR. KATZ: Closed.

10 CHAIR GRIFFON: What about the
11 observation? It looks like this is something
12 that is also being taken up in the TBD review.

13 MR. FARVER: It looks like the
14 same stuff that has been in our TBD reviews.

15 CHAIR GRIFFON: Yes. So, I think
16 that is no further action for us anyway,
17 right?

18 MR. FARVER: That's correct.

19 MEMBER CLAWSON: That would
20 probably go to the Nevada Test Site Group.

21 CHAIR GRIFFON: Yes. Alright.

22 MR. FARVER: 207.1.

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1 CHAIR GRIFFON: Yes, I am looking
2 at these. Sorry. I was looking at these
3 other observations. I think they are all in
4 the TBD, right? Observations 2, 3, 4, 5?

5 MR. FARVER: Yes.

6 CHAIR GRIFFON: So, I think they
7 would all fall under the TBD. So, I think
8 they are all closed for our purposes, right?

9 MR. FARVER: Correct. Yes, these
10 are all things that are being changed in the
11 TBD.

12 CHAIR GRIFFON: Okay.

13 MEMBER MUNN: Environmental
14 resuspension --

15 MR. FARVER: Yes, resuspension --

16 CHAIR GRIFFON: Yes.

17 MR. FARVER: -- is no longer going
18 to be an issue.

19 CHAIR GRIFFON: Okay. Go ahead,
20 on to 207.1.

21 MR. FARVER: Oh, improper
22 accounting of recorded proton dose. What this

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1 comes down to is the employment period that
2 was entered into the workbook was off by a
3 year. So, there was a year that was not
4 accounted for in, I believe it is external
5 dose -- yes, photon dose. Okay?

6 And it is a compensated case. So,
7 it wasn't needed, but that is not the reason
8 it wasn't done. It was a mistake. They
9 entered the wrong year. It falls under a QA
10 mistake. When you read through all of that,
11 that is just --

12 CHAIR GRIFFON: That it is
13 compensated, yes.

14 MR. FARVER: And it is
15 compensated.

16 CHAIR GRIFFON: So, it is a QA.

17 MR. FARVER: It is a QA. Close
18 it.

19 CHAIR GRIFFON: Close it and move
20 on, right. Okay. Point-2?

21 MR. FARVER: Point-2 says,
22 "Recorded dose model has a missed dose."

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1 Okay.

2 This has to do with the text that
3 is in the DR. It is incorrect. It stated
4 that the K-25 results were below detection.
5 The text incorrectly states that the EE was
6 monitored from '57 through '61 for uranium.
7 Actually monitored from '52 through '61 and
8 had positive results from '57 through '61.

9 It's an oopsie, it's an error in
10 the text that should have been corrected
11 during a peer review, a QA.

12 CHAIR GRIFFON: Yes. And close.

13 MR. FARVER: Closed.

14 CHAIR GRIFFON: Okay.

15 MR. CALHOUN: Solubility type.

16 MR. FARVER: 207.3.

17 CHAIR GRIFFON: Yes.

18 MR. FARVER: The most claimant-
19 favorable solubility type was not selected by
20 NIOSH. Uranium Type F was selected for the
21 dose assessment. The statement in the DR
22 report was incorrect in stating that it

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1 yielded the highest dose to the stomach
2 because that should have been Type S.

3 Once again, that is something that
4 should have been caught when it was reviewed.

5 CHAIR GRIFFON: Alright. And
6 closed.

7 MR. FARVER: Closed.

8 CHAIR GRIFFON: And QA. Okay.

9 MR. FARVER: 207.4. Now I am
10 guessing this is an INEL case.

11 MR. CALHOUN: Hanford.

12 CHAIR GRIFFON: It sounds like
13 Hanford.

14 MR. FARVER: Hanford? Because it
15 looked very similar to 195.3, which I am going
16 to look at. And they reference the same files
17 that I said I wanted to look at.

18 MR. CALHOUN: And they indicate
19 25.

20 MR. FARVER: Yes.

21 MR. CALHOUN: So, it is a mixed.

22 MR. FARVER: It is a mixed one?

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1 Okay. So, I am going to go ahead and look at
2 these files.

3 CHAIR GRIFFON: Okay.

4 MR. FARVER: It falls in the same
5 category as 195.3.

6 CHAIR GRIFFON: SC&A follow-up?
7 Alright. This is good, Doug. You're moving.

8 MR. FARVER: Not bad for winging
9 it, huh?

10 CHAIR GRIFFON: To 208.1.

11 That is not good for the record.

12 (Laughter.)

13 208.1.

14 MR. FARVER: Oh, I'm not really
15 winging it. Come on.

16 CHAIR GRIFFON: No.

17 MR. FARVER: Improper accounting
18 of recorded photon dose. The dose was
19 incorrectly entered from the dose records for
20 it looks like two years, 1945 and 1956. Once
21 again, a QA error. And I believe this was a
22 data entry error into the file that gets

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1 uploaded into the workbook, or the tools.

2 CHAIR GRIFFON: Okay. And was 208
3 a compensated case or wasn't it?

4 MR. CALHOUN: Yes, X-10 comp.

5 CHAIR GRIFFON: It was also an
6 X-10 comp? Okay. So, QA and closed, right?

7 MR. FARVER: 208.2. Improper
8 assignment of the intakes.

9 CHAIR GRIFFON: There is
10 agreement. NIOSH has agreement, right?

11 MR. FARVER: It was an error.

12 CHAIR GRIFFON: Right.

13 MR. FARVER: And I will give you
14 an example. The strontium-90 intake was
15 listed as, let's say, 16,000 DPM per day
16 instead of 165,000 DPM per day. So, you are
17 off by this much. So, there were some mix-ups
18 there.

19 CHAIR GRIFFON: Yes. Alright. QA
20 and closed.

21 MR. FARVER: Closed.

22 CHAIR GRIFFON: Point-3.

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1 MR. FARVER: Okay. The improper
2 assignment of the geometric standard
3 deviation. It was assigned as 3 for all years
4 when 7.9 should have been used for the time
5 period of '53 through '55. It doesn't change
6 the PoC.

7 CHAIR GRIFFON: Which?

8 MR. FARVER: 208.3, the bottom of
9 page 49.

10 CHAIR GRIFFON: Thanks. It
11 doesn't change the PoC or doesn't change the
12 decision?

13 MR. FARVER: It doesn't change --
14 the PoC is not -- well, that is not impacted.

15 CHAIR GRIFFON: It said it changed
16 the PoC. Alright. Anyway --

17 MR. FARVER: It's not impacted.

18 CHAIR GRIFFON: -- it is closed.
19 It doesn't impact it, right?

20 MR. FARVER: It's closed.

21 CHAIR GRIFFON: Okay.

22 MR. FARVER: It's a QA concern.

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1 Okay. Now we've got some observations.

2 CHAIR GRIFFON: Just for
3 completeness, we should address these, if we
4 can.

5 MR. FARVER: Okay. The first
6 observation has to do with the number of
7 zeroes for calculating missed dose. I think a
8 lot of it has to do with just actually being
9 able to read some of the site records. I
10 mean, it is not hard to come up with different
11 numbers. So, that was the first one.

12 And it's just pointing out that we
13 just didn't agree with their numbers, but we
14 also understand that the records are not the
15 easiest to read.

16 CHAIR GRIFFON: But even though it
17 doesn't affect this case, this sort of is a
18 bigger deal for the broad set of cases, right?

19 MR. FARVER: We do run into this
20 occasionally with the records that are hard to
21 read.

22 CHAIR GRIFFON: Is that someone on

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1 the phone or?

2 MEMBER CLAWSON: No, it is me.

3 Sorry.

4 CHAIR GRIFFON: Oh. Go ahead,

5 Doug. I'm sorry.

6 MR. FARVER: I say we do run into

7 this occasionally on records that are

8 difficult to read and they are not very

9 legible.

10 CHAIR GRIFFON: Right.

11 MR. STIVER: So, it is a

12 transcription error possibly?

13 MR. FARVER: Because we will go

14 back and look at the records and try to count

15 the zeroes, and I think a lot of what NIOSH

16 does is their data is data entered. So, that

17 person is interpreting the records, and then,

18 those files are uploaded into the workbooks.

19 I don't know that there is that

20 much you can do about that. I mean, you can

21 see the difference was plus or minus 1 to plus

22 or minus 4 zeroes.

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1 CHAIR GRIFFON: I mean, do we know
2 anything about, just thinking overall here, do
3 we know anything about whether this
4 happened -- is it certain sites that are more
5 difficult to read or --

6 MR. FARVER: I think it is just
7 age of records.

8 CHAIR GRIFFON: Yes. Yes, I was
9 just wondering if -- no, it is not?

10 MR. FARVER: No, it is just the
11 age of records.

12 CHAIR GRIFFON: The older, yes,
13 the earlier years --

14 MR. FARVER: Records from the
15 fifties are usually in pretty bad shape.

16 CHAIR GRIFFON: Yes, across the
17 board, it is not necessarily one site?

18 MR. FARVER: Yes.

19 MR. HINNEFELD: There would be
20 some of them where they were probably doing
21 weekly exchanges, right?

22 CHAIR GRIFFON: Yes.

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1 MR. FARVER: And the reason we
2 didn't make this a finding was you can see,
3 No. 1, it is hard to read and, No. 2, the
4 differences are very low, you know, 1 to 4
5 zeroes.

6 CHAIR GRIFFON: Right, right.
7 Yes, yes. Okay. Alright. So we'll just put
8 no action.

9 Now we have Observation 2.

10 MR. FARVER: It is right here, if
11 you want to read it.

12 MR. STIVER: Actually, I have it
13 pulled up in the case file here. This was an
14 issue of using different versions of the
15 workbook, Annual Dosimetry Workbook, Version
16 4, versus Version 5, which is what we used for
17 our audits.

18 There was basically a difference
19 of a factor of about 2.5 times higher for the
20 total alpha dose for '44 to 2000. And so, it
21 was one of these issues of, you know, this
22 changed pretty significantly, but --

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1 CHAIR GRIFFON: Yes.

2 MR. STIVER: -- we weren't able to
3 figure out why, what the basis was for the
4 version change here.

5 MEMBER CLAWSON: Also how many of
6 the other cases were underestimated using the
7 same workbook.

8 MR. FARVER: See, we have seen
9 this before where the version of the CADW
10 program changes and you get different doses
11 whether you are using different versions.

12 MR. SIEBERT: I would like to
13 point out that is not the case here. The case
14 here is that X-10, when you use the OTIB-18
15 tool for X-10 for the 1944-to-'47 timeframe,
16 the TBD does clearly specify that only
17 plutonium and uranium are to be included in
18 that, everything else is to be excluded. And
19 when that was run by SC&A, they did not
20 exclude those things. That is why there is a
21 difference.

22 MR. FARVER: Okay.

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1 MR. STIVER: Right. Yes, Version
2 5 includes thorium isotopes and polonium-210.

3 MR. SIEBERT: Right. But it is
4 not the fact that the version changed as much
5 as the TBD informed you only to use two
6 specific elements, and those are the only ones
7 that were assigned and so would be assigned.

8 MR. STIVER: Oh, okay. The
9 version change is a different finding then.

10 CHAIR GRIFFON: Yes, yes.

11 MR. STIVER: Yes. So, it is
12 really just how it was implemented, whether
13 proper nuclides were considered.

14 CHAIR GRIFFON: But, I mean, I
15 think Scott's point is important really.

16 MR. STIVER: Oh, yes, absolutely.

17 CHAIR GRIFFON: I mean, that would
18 withdraw your observation.

19 MR. STIVER: Yes, that is no
20 longer a concern --

21 CHAIR GRIFFON: Yes.

22 MR. STIVER: -- after

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1 understanding what was done and why.

2 CHAIR GRIFFON: Right.

3 MR. FARVER: And sometimes we will
4 put like an observation in there because we
5 don't really understand why it was done or --

6 CHAIR GRIFFON: Sure.

7 MR. FARVER: -- why it is so
8 different.

9 CHAIR GRIFFON: Yes, because, I
10 mean, this could have been a more serious
11 thing.

12 MR. FARVER: Yes.

13 CHAIR GRIFFON: I think his
14 explanation makes sense.

15 MR. FARVER: But it was one of
16 these deals where we went through and came up
17 with one number but it didn't match their
18 number. And so we're just going to point that
19 out, that it doesn't match, and you can tell
20 us why.

21 CHAIR GRIFFON: And you are
22 satisfied with that answer, right?

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1 MR. FARVER: Well, yes.

2 CHAIR GRIFFON: Alright. So, no
3 action.

4 MR. FARVER: No.

5 CHAIR GRIFFON: Okay. 211.1.

6 MR. FARVER: Yes, I can't find
7 211. It may be in the next set.

8 "The method to calculate the
9 prostate dose underestimates the 30-to-250-keV
10 dose. NIOSH agrees that the doses appear to
11 be low, beyond the differences from the Monte
12 Carlo calculations."

13 They are not really sure why.
14 They suspect it is a cut-and-paste error. We
15 don't believe it is a cut-and-paste error
16 because it is the same IREP table that comes
17 out of the EDCW 1.2 workbook. So, it is not
18 like they had to paste anything.

19 And we consider it significant if
20 it underestimates and it affects the PoC up to
21 3 percent.

22 MR. CALHOUN: You got any more on

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1 that, Scott, since June?

2 MR. SIEBERT: Well, this is kind
3 of like what we said before. We are looking
4 at the full process. Specifically, the EDCW
5 cited a specific historical tool that we no
6 longer use. We are looking specifically at
7 that issue and don't have -- you know, we
8 haven't gotten a resolution as to whether it
9 was a specific issue on that or not, but we
10 are looking into it. We will likely be tying
11 that into the PER for Savannah River when the
12 TBD gets updated. But we are looking into it.

13 MEMBER KOTELCHUCK: The issues,
14 the questions you are raising, aren't they
15 addressed in the blind cases that are done?
16 Not every single case, but there will be a
17 number which are --

18 MR. STIVER: Our blind reviews
19 or --

20 MEMBER KOTELCHUCK: Yes.

21 MR. STIVER: Yes, in theory, that
22 kind of thing would come up.

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1 MEMBER KOTELCHUCK: But we don't
2 understand --

3 MR. STIVER: We have only done two
4 at this point.

5 MEMBER KOTELCHUCK: No, I
6 understand, but that is on our agenda?

7 MR. STIVER: Yes.

8 MEMBER KOTELCHUCK: I mean, the
9 answer to your last question is how many cases
10 were underestimated.

11 MR. FARVER: Well, we don't know.
12 You know, if it is a workbook error, it could
13 be many. If it is just an isolated, single
14 error somehow, then it is probably just this
15 case.

16 MR. CALHOUN: If it is a quality
17 error, it is one thing --

18 CHAIR GRIFFON: And I think the
19 importance is also looking back, how many --
20 does it warrant a PER, right, I guess, is what
21 you are saying, looking backwards? I mean,
22 your current blind is going forward.

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1 MR. CALHOUN: We probably won't
2 catch that because --

3 CHAIR GRIFFON: Right, right.

4 MR. CALHOUN: -- after that it was
5 discontinued.

6 CHAIR GRIFFON: Right, right. So,
7 looking back, do we need to address a broader
8 problem?

9 MR. CALHOUN: Well, that is what
10 Scott said.

11 CHAIR GRIFFON: Yes.

12 MR. CALHOUN: Unless the TBD is
13 revised --

14 CHAIR GRIFFON: Right, right.

15 MR. CALHOUN: -- then, we will
16 institute a PER, if one is necessary --

17 CHAIR GRIFFON: If one is
18 necessary.

19 MR. CALHOUN: -- if the doses go
20 up anywhere.

21 CHAIR GRIFFON: Right.

22 MR. FARVER: Because, for this

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1 case, when it was done correctly, the PoC
2 jumped up 3 percent.

3 CHAIR GRIFFON: Yes.

4 MR. FARVER: Now that could be
5 significant on some other cases.

6 CHAIR GRIFFON: On some cases,
7 right.

8 MR. CALHOUN: '48 or so, it could
9 be an issue.

10 CHAIR GRIFFON: So, I put that in
11 NIOSH's follow-up. NIOSH is going to follow
12 up on that.

13 Then, you've got two observations
14 here.

15 MR. FARVER: I think this looks
16 like our standard --

17 CHAIR GRIFFON: This looks
18 familiar, yes.

19 MR. FARVER: -- one from our Site
20 Profile review. And so does the second
21 observation, where we believe the two-element
22 and multi-element TLD dosimeters may

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1 underestimate doses.

2 And the second one has to do with
3 the neutron/photon ratios used may
4 underestimate neutron doses.

5 CHAIR GRIFFON: And these are both
6 under the SRS Site Profile review, right?

7 MR. FARVER: Yes.

8 CHAIR GRIFFON: Yes. So, we will
9 give them to that Workgroup, whoever they
10 might be. Okay.

11 212.1.

12 MR. STIVER: This is a non-comp
13 bladder case.

14 CHAIR GRIFFON: What site is this,
15 212?

16 MR. STIVER: This is Savannah
17 River.

18 CHAIR GRIFFON: Savannah River
19 again? Okay. So, last we heard, you were
20 looking at this more, SC&A?

21 MR. FARVER: Yes, I am going to
22 have to look at this. I don't think it is

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1 going to get us anywhere because it looks like
2 it is a case of checking off boxes on the CATI
3 report.

4 CHAIR GRIFFON: Okay.

5 MR. FARVER: And they had more
6 specific information on where the person
7 worked. But I will take a look at it.

8 CHAIR GRIFFON: There is only one
9 finding you have on this one, right?

10 MR. FARVER: Yes.

11 CHAIR GRIFFON: A couple of
12 observations.

13 MR. CALHOUN: Didn't consider that
14 they may have been exposed to uranium,
15 plutonium, and iodide.

16 MR. FARVER: One finding and then
17 the two observations from the same ones as the
18 previous case.

19 CHAIR GRIFFON: What is the PoC on
20 this one? Do you know?

21 MR. FARVER: I do not know.

22 MR. SIEBERT: Forty-three percent.

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1 CHAIR GRIFFON: Forty-three
2 percent. Alright. We will let you look at it.
3 Next time, we will get a report on that,
4 right?

5 MR. FARVER: Yes.

6 CHAIR GRIFFON: Okay. And then,
7 the two observations are the same.

8 MR. FARVER: The two observations
9 are the same.

10 CHAIR GRIFFON: So, they will go
11 to the work group. Okay.

12 212.

13 MEMBER CLAWSON: By the way, that
14 is you, Mark, just so that you know.

15 CHAIR GRIFFON: I know. I am
16 aware of that.

17 (Laughter.)

18 CHAIR GRIFFON: Okay. 214.1.
19 What site is this?

20 MS. ROLFES: Y-12.

21 CHAIR GRIFFON: Y-12?

22 MR. CALHOUN: Non-comp.

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1 MR. FARVER: Incorrect uncertainty
2 distribution entered. This would be for the
3 X-ray doses.

4 CHAIR GRIFFON: So, the first one
5 is just a QA finding.

6 MR. FARVER: It is just a QA
7 finding.

8 CHAIR GRIFFON: There is no
9 further action.

10 MR. FARVER: No further action.

11 CHAIR GRIFFON: Okay. That is
12 closed.

13 MR. SIEBERT: And, Mark, just so
14 you know, the rest of them in the 9th set are
15 all Y-12, to save you a little trouble.

16 CHAIR GRIFFON: Oh, thank you.

17 MR. FARVER: And I know this will
18 come as a surprise for 215.1. It is Y-12, and
19 there is a question about neutron doses being
20 assigned. You know, does the employee work
21 where there are neutron doses?

22 CHAIR GRIFFON: Right.

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1 MR. FARVER: This is our standard
2 one.

3 CHAIR GRIFFON: Location really,
4 right?

5 MR. FARVER: Yes.

6 CHAIR GRIFFON: Yes. I mean,
7 where does this one stand?

8 MR. FARVER: Well, I have not had
9 a chance to --

10 CHAIR GRIFFON: We do have a June
11 2012 --

12 MR. FARVER: -- evaluate the
13 latest.

14 CHAIR GRIFFON: Okay.

15 MR. FARVER: So, I am going to
16 pass that off to my buddy Ron. So, we are
17 going to look at this one.

18 CHAIR GRIFFON: Okay. So, it's in
19 your court.

20 MR. FARVER: Our court.

21 CHAIR GRIFFON: That is 215.1.
22 SC&A will follow up.

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1 And then there are some
2 observations.

3 MR. FARVER: The first one just
4 repeats some of what was identified in the
5 Site Profile review: the lack of external
6 monitoring data, inapplicable coworker data,
7 and so forth.

8 CHAIR GRIFFON: Okay. I mean, I
9 guess we can look at that. I wonder if we
10 looked at that in the Y-12 SEC review.

11 MR. FARVER: In the where?

12 CHAIR GRIFFON: In the Y-12 SEC
13 review. I wonder if we considered that
14 question. It is a pretty broad question, lack
15 of data.

16 MR. FARVER: Well, it is probably
17 more specified in the --

18 CHAIR GRIFFON: Okay. Yes, yes.

19 MR. FARVER: -- Site Profile
20 review that SC&A did.

21 CHAIR GRIFFON: I mean, there is
22 no Y-12 Workgroup, is there?

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1 MR. KATZ: No, there is not.

2 CHAIR GRIFFON: Initially, there
3 was just one Workgroup that looked at
4 Mallinckrodt, Y-12, and --

5 MR. KATZ: It wasn't a Workgroup.
6 It was the Board.

7 CHAIR GRIFFON: Oh, it was the
8 Board? Okay.

9 MR. KATZ: On Mallinckrodt?

10 CHAIR GRIFFON: Yes.

11 MR. KATZ: Mallinckrodt, the whole
12 Board took on Mallinckrodt.

13 CHAIR GRIFFON: I remember we had
14 a couple of meetings in NIOSH's offices,
15 actually.

16 MR. KATZ: Okay, but that was --

17 CHAIR GRIFFON: Yes, I think it
18 was this Subcommittee that kind of --

19 MR. KATZ: It might have been
20 something like that, but --

21 CHAIR GRIFFON: Anyway.

22 MR. KATZ: That was before my --

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1 CHAIR GRIFFON: Before your
2 tenure, yes. They were actually having
3 Workgroup meetings in NIOSH's offices at that
4 point. Stu, were you --

5 MEMBER CLAWSON: That was the
6 Larry Elliott time.

7 CHAIR GRIFFON: Yes, Larry Elliott
8 was there.

9 MR. HINNEFELD: Larry would have
10 been the Director.

11 CHAIR GRIFFON: Yes.

12 MR. HINNEFELD: Chances are I was
13 around by the time Workgroups started meeting.

14 CHAIR GRIFFON: At any rate,
15 something probably has to be done with the
16 Y-12 findings that were non-SEC. You know, we
17 had a whole matrix.

18 MR. KATZ: Who has that?

19 CHAIR GRIFFON: Probably -- SC&A
20 certainly has it. Joe Fitzgerald I think was
21 the point person.

22 MR. KATZ: Y-12, follow up with

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1 Joe.

2 CHAIR GRIFFON: Yes.

3 MR. KATZ: That came out, Y-12
4 and Mallinckrodt were being dealt with
5 together?

6 CHAIR GRIFFON: Yes, or one after
7 the other, yes. Yes.

8 MR. HINNEFELD: I think they came
9 up at the time of the addition of the Y-12
10 Class. When the Class was added, I believe
11 there were still some Site Profile questions
12 open.

13 CHAIR GRIFFON: Yes, yes.

14 MR. HINNEFELD: If that's what you
15 are talking about.

16 CHAIR GRIFFON: Right. Like we
17 put some aside.

18 MR. HINNEFELD: Yes.

19 MR. KATZ: Okay. So, let me
20 follow up with Joe and get the matrix from
21 him.

22 CHAIR GRIFFON: Yes, and the same

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1 goes for Mallinckrodt, but it is not here.
2 But the same goes for Mallinckrodt, I think,
3 right?

4 MR. HINNEFELD: I don't recall and
5 Mallinckrodt --

6 (Simultaneous speaking.)

7 CHAIR GRIFFON: There was no
8 matrix with other issues, though?

9 MR. HINNEFELD: I don't recall
10 any. I mean, we had a pretty -- there were
11 certain years we decided that Mallinckrodt's
12 data was not reliable. And so we didn't
13 utilize that data. For other periods, a
14 deficiency was the separated uranium progeny,
15 you know, that you couldn't really -- you
16 didn't have a good method for doing those, but
17 there was a pretty robust set.

18 CHAIR GRIFFON: But didn't we
19 always carve out that we could do external?

20 MR. HINNEFELD: Well, we have got
21 a really complete set of external dosimetry
22 from Mallinckrodt.

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1 CHAIR GRIFFON: I may be wrong on
2 that, yes.

3 MR. KATZ: John?

4 MR. STIVER: Yes?

5 MR. KATZ: For Y-12, would you
6 please check with Joe and see about getting me
7 a matrix on --

8 MR. STIVER: Yes. Okay.

9 CHAIR GRIFFON: I am not sure on
10 Mallinckrodt.

11 MR. HINNEFELD: I'm not sure. I
12 don't recall exactly. I do recall that on
13 Y-12 there were Site Profile issues that were
14 kind of put aside.

15 CHAIR GRIFFON: Alright. That's
16 fine. So, what about Observation 2?

17 MR. FARVER: Observation 2. "NIOSH
18 included acute doses with the chronic dose
19 entry in the IREP tables."

20 Now, typically, all your internal
21 doses in the IREP tables are chronic, I
22 believe. But, in this case, some of them were

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1 marked "acute". I don't think it makes any
2 difference calculation-wise, IREP-wise, but --

3 MR. STIVER: The distribution
4 might be different.

5 MR. SIEBERT: Wait a second. Let
6 me take a look at that. I don't think that
7 was necessarily the finding.

8 MR. STIVER: Entries 95 to 147 for
9 prostates and 95 to 150.

10 MR. SIEBERT: Yes, the actual
11 observation here seems to be saying, why are
12 you combining acute intake doses with chronic
13 intake doses?

14 MR. STIVER: Right.

15 MR. SIEBERT: And as Doug said at
16 the beginning, all internal doses are applied
17 as chronic doses because the dose is applied
18 over time, whether it is an acute intake or a
19 chronic intake. So, combining those two is no
20 problem.

21 MR. STIVER: Yes. Okay. That
22 makes sense. Intake is acute, the dose

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1 accrual is chronic.

2 MR. SIEBERT: Right.

3 CHAIR GRIFFON: Right.

4 MR. SIEBERT: It's the difference
5 between intake and the actual dose.

6 CHAIR GRIFFON: Dose, right.

7 MR. STIVER: Okay. That makes
8 perfect sense.

9 CHAIR GRIFFON: Okay. So, I think
10 that is withdrawn or no action. Okay.

11 To Observation 3.

12 MR. FARVER: Observation 3, really
13 that explains it pretty good. Uranium lung
14 burdens were less than the actual measured
15 values in the calculations that were provided
16 with the files. And then NIOSH provides their
17 explanation.

18 So, we are asking, well, why
19 didn't you consider the in vivo measurements
20 to use for the lung burdens? You know, use
21 the actual measurements instead of the
22 projected lung burdens.

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1 MR. STIVER: And their response,
2 they are using the most limiting data, would
3 be consistent with your approach.

4 MR. FARVER: Yes. Basically, they
5 used the urinalysis. This provided a more
6 realistic evaluation of the data, which it
7 usually does.

8 CHAIR GRIFFON: Alright. So, that
9 is no further action.

10 MR. FARVER: Now, Observation 4,
11 215.4, that is the difference in the CADW
12 versions.

13 CHAIR GRIFFON: Okay. Yes.

14 MR. FARVER: And we see this with
15 the different versions, things slightly
16 change. So, this is just one of those, "Well,
17 gee, we saw a change. Why is that?" And they
18 give a good explanation.

19 MR. STIVER: Yes, the explanation
20 is very detailed and direct to the point.

21 CHAIR GRIFFON: Yes. Well, the
22 question, the doses are increased. Certain

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1 organ doses increased. Does that warrant any
2 look-back? Or it is not that significant, or
3 what? You know, I see at the bottom --

4 MR. STIVER: Right.

5 CHAIR GRIFFON: -- of that
6 response -- I mean, I don't know how big these
7 doses are, either, but one says the dose is
8 unchanged. Dose to kidneys and spleen
9 increased.

10 MR. STIVER: Oh, there is
11 decreased --

12 CHAIR GRIFFON: If they increased,
13 what was the --

14 MR. STIVER: So, bone marrow and
15 spleen --

16 CHAIR GRIFFON: Yes.

17 MR. STIVER: -- were the only two
18 that would result in an increase. I guess, is
19 that increase enough to justify a PER?

20 CHAIR GRIFFON: That is the
21 question, yes, I'm asking.

22 MR. CALHOUN: Yes, any input on

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1 that, Scott?

2 MR. SIEBERT: I don't off the top
3 of my head.

4 CHAIR GRIFFON: I think we should
5 close that question out.

6 MR. FARVER: I mean, when they
7 change CADW versions, do they do a test on it
8 to see what is changed, how much it's changed?

9 MR. CALHOUN: Potential impact?

10 MR. FARVER: This all goes back to
11 V&V and checking out your workbooks.

12 CHAIR GRIFFON: Yes.

13 MR. SIEBERT: Okay. I have got it
14 written down for us to check on that.

15 CHAIR GRIFFON: Okay. Yes.

16 MR. FARVER: Ready for 216.1?

17 CHAIR GRIFFON: Sure.

18 MR. FARVER: Okay. This is a
19 finding you will see in many Y-12 cases. One
20 of the things we look at on our checklist --
21 and it is Item A(2) -- is, is the data
22 adequate for NIOSH to make a PoC

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1 determination? You know, basically, we are
2 looking at it to see is this scientifically-
3 sound information that they can use.

4 And in this case, we say no. And
5 for a lot of Y-12's we say no because they are
6 pretty much limited for a certain time period
7 that all they can do is medical doses. That
8 is all they can assign.

9 And it is not their fault. I
10 mean, that is just the way it is written, but
11 we have got to say that is not adequate to
12 make a PoC determination, if you are just
13 looking at people's X-ray doses.

14 You know, there is a stipulation
15 they can't use the internal data.

16 MR. STIVER: So, it is a
17 limitation on how you can do a partial
18 reconstruction.

19 MR. CALHOUN: It is the result of
20 an SEC.

21 MR. STIVER: Yes, it is the result
22 of an SEC. So, it is a conditional PoC.

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1 Given this limited data, this is what we would
2 have gotten.

3 MR. CALHOUN: Yes, the best we can
4 do.

5 CHAIR GRIFFON: Okay. Yes. So
6 there is nothing more than can be done, right?

7 MR. FARVER: Well, I don't know.
8 I mean, is it appropriate that you just assign
9 a PoC based on people's medical X-rays? Is
10 that a scientifically-sound dose
11 reconstruction?

12 MR. CALHOUN: Sure, if we don't
13 have anything else. That is why we
14 established the SEC.

15 CHAIR GRIFFON: This is a partial,
16 yes.

17 MR. FARVER: The SEC says that you
18 just can't do anything or the data is not
19 adequate.

20 MR. HINNEFELD: I don't know what
21 it says exactly, but --

22 MR. FARVER: But it is something

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1 to that effect, that you are not allowed to
2 even --

3 MR. HINNEFELD: Certain things are
4 not feasible to reconstruct, and I don't know
5 what they are in this case. So, certain
6 things are not. If those are not, then what
7 is the remainder is what we consider a
8 scientifically credible dose reconstruction,
9 or whatever term you use.

10 MR. FARVER: Partial dose
11 reconstruction.

12 MR. HINNEFELD: What we can do
13 within the confines of the program.

14 MR. STIVER: So, there is always
15 going to be that issue of --

16 MR. FARVER: Always.

17 MR. STIVER: -- if there's a claim
18 and it doesn't qualify for the SEC --

19 CHAIR GRIFFON: Policy for a
20 while, yes. Yes.

21 MR. STIVER: Or they may get a
22 lower dose as a result of that, if they don't

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1 have a qualifying cancer. You know, it
2 happens sometimes.

3 MR. FARVER: You can't bound in
4 any way --

5 MR. CALHOUN: If we could bound
6 it, it wouldn't be an SEC.

7 MR. FARVER: This is well-
8 established --

9 MR. STIVER: Well, I understand
10 that.

11 CHAIR GRIFFON: Yes.

12 MR. STIVER: And we also have this
13 criteria that we are supposed to look at when
14 we review these.

15 MR. KATZ: But you only apply it
16 to the parts of the dose that can be
17 reconstructed. You can't apply it to the
18 parts of the dose that have been determined to
19 be not reconstructable.

20 So, your question is, is the
21 science valid for the doses that you can
22 reconstruct, not is the science valid for

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1 doses you can't.

2 MR. FARVER: No, it is, is the
3 data adequate for NIOSH to make a PoC
4 determination, an adequate PoC determination?

5 MR. KATZ: Yes, but the PoC
6 determination is only made for the doses that
7 could be reconstructed. So, that's the
8 limitation.

9 MR. HINNEFELD: I would propose
10 that that question has meaning only in the
11 case where an SEC has not been added. Once an
12 SEC has been added, there is a foregone
13 conclusion that the data is not adequate to
14 make a PoC determination.

15 MR. KATZ: It applies in a limited
16 fashion still for the doses that can be
17 reconstructed because, I mean, that still
18 matters for that claimant. But it only
19 matters --

20 MR. STIVER: You have to look at
21 it within the framework of the SEC and the
22 policy that is in place. If there is an SEC

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1 and you have a guy with a prostate cancer, he
2 is in that period, he doesn't qualify or
3 doesn't qualify for the 250-day, you just have
4 to look at a subset of what exposures are
5 applicable, and then make a determination on
6 that basis.

7 You can't look at, well, if you
8 did include all these other things, this would
9 have been a higher PoC. You can't even look
10 at that. It is off the table at that point.

11 CHAIR GRIFFON: Right, it's a
12 policy call.

13 MR. FARVER: I understand it is a
14 policy call. I understand that part. It is a
15 policy call, it's what it is.

16 CHAIR GRIFFON: Right.

17 MR. FARVER: But I can look at
18 these and I can say that I don't think that
19 the data was adequate or sufficient to make a
20 PoC.

21 MR. KATZ: Again, it is for the
22 doses that you are covering. So, from here

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1 forward, that is how you handle it. It is
2 appropriate for the doses you are covering.
3 That's the question. You don't apply the
4 question to the doses that aren't being
5 covered.

6 That is just the way it is. I
7 don't want to continue the discussion, but
8 that is the way it is.

9 CHAIR GRIFFON: Right, right.
10 Yes.

11 MR. KATZ: You apply to the doses
12 that are eligible to be reconstructed, and
13 that's it.

14 MR. STIVER: And if those doses
15 are only medical doses, so be it, that is what
16 we look at.

17 MR. KATZ: Right.

18 MR. FARVER: We may look at
19 changing our criteria A(2) then.

20 MR. KATZ: Let's move on.

21 CHAIR GRIFFON: Yes, yes.

22 MR. FARVER: Okay. The same thing

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1 for 17.1.

2 MR. STIVER: Maybe we don't need
3 to change the criteria, just acknowledge that
4 in this situation, a limited, partial
5 reconstruction, we look at only these
6 particular sources of exposure.

7 MEMBER CLAWSON: When we did
8 these, did we have the SEC for Y-12?

9 CHAIR GRIFFON: Yes, I think they
10 did, yes.

11 MR. FARVER: Otherwise, it
12 wouldn't have a partial.

13 CHAIR GRIFFON: Like Ted said,
14 let's move on, off of this.

15 MR. STIVER: Okay. Where are we
16 now?

17 MR. FARVER: 218.1. This is
18 another one where we believe the employee
19 should have been assigned neutron doses.

20 CHAIR GRIFFON: Wait. Did we do
21 217.1?

22 MR. FARVER: 217.1 is the same as

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1 216.1.

2 CHAIR GRIFFON: Oh, they are the
3 same?

4 MR. FARVER: Yes.

5 CHAIR GRIFFON: Okay.

6 MR. STIVER: We are going to get
7 to 218 here in just a second. Okay. We are
8 on 218, Y-12 and K-25, prostate and skin. And
9 let's see, anything further here?

10 MR. FARVER: You could read
11 through the yellow section on our response. We
12 have a general disagreement on how they
13 interpret the Report 33. But in this case,
14 based on the employee's department
15 information, we concur with their response,
16 but not because we would agree with how they
17 interpret the Y-12 neutron report. This is
18 another ongoing finding.

19 CHAIR GRIFFON: Yes.

20 MEMBER KOTELCHUCK: If we ever
21 wanted, in some statistical testing in the
22 future, if we ever wanted to go back and look

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1 at PoCs that have been done, would we have any
2 idea that this was a partial reconstruction?
3 Well, you have the date, I guess. But the
4 PoCs are not designated, like, partial
5 reconstruction PoC? They are just what they
6 are? So, they wouldn't be useful probably if
7 there was any statistical --

8 MR. KATZ: You would want to leave
9 those ones out, right, the partials out?

10 MEMBER KOTELCHUCK: That is what
11 you would want to do.

12 MR. KATZ: Yes.

13 MEMBER KOTELCHUCK: Yes. Okay.

14 CHAIR GRIFFON: So, this, the
15 broader issue, where is that captured? That
16 is my only question here. I think it's closed
17 for this case, 218.1, but is the broader --
18 you say that is an ongoing issue.

19 MR. STIVER: That is an ongoing
20 one that we will report again.

21 CHAIR GRIFFON: But, for Y-12, I
22 mean, I think --

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1 MR. STIVER: For Y-12 --

2 CHAIR GRIFFON: But we don't know
3 if we even have a matrix for Y-12.

4 MR. KATZ: Well, we are going to
5 dig that up.

6 CHAIR GRIFFON: Okay.

7 MR. KATZ: Yes.

8 CHAIR GRIFFON: So, maybe just add
9 that onto the question for Joe. If we find
10 this Y-12 TBD matrix, this issue should be on
11 it, right?

12 MR. KATZ: It should be on it or,
13 anyway, it should be referred to the Workgroup
14 that we established.

15 CHAIR GRIFFON: That we
16 established, yes.

17 (Laughter.)

18 Yes, the future one. Okay. So,
19 closed, but Workgroup issue.

20 MR. KATZ: Yes, refer issue to
21 Workgroup.

22 CHAIR GRIFFON: For future

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1 Workgroup.

2 MR. KATZ: Yes.

3 CHAIR GRIFFON: All right. 218.2.

4 MR. FARVER: Incorrect organ dose
5 values used for 1976 and 1984. Agreed the
6 organ doses that is used for the skin of the
7 hand were entered wrong in the IREP sheet.

8 CHAIR GRIFFON: I understand your
9 "however" part, but what do you mean steps
10 should be taken?

11 MR. FARVER: Well --

12 CHAIR GRIFFON: I think we have
13 taken those steps, right? Yes, they are
14 taking some of them, I suppose.

15 MR. FARVER: It is my standard
16 thing about --

17 CHAIR GRIFFON: Yes.

18 MR. FARVER: -- how you are going
19 to prevent it in the future.

20 CHAIR GRIFFON: Right. Okay. So,
21 it is QA and it's closed, I think, right?

22 MR. FARVER: Sure.

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1 MEMBER CLAWSON: I think we have
2 tried, and NIOSH, too -- these are kind of
3 some old ones, aren't they?

4 MR. FARVER: Yes, these are still
5 old ones.

6 MEMBER CLAWSON: Yes.

7 MR. STIVER: Go back to that
8 previous one about Report 33. I mean, I was
9 wondering how many revisions of Report 33 have
10 taken place since this finding came out. You
11 said that is still an ongoing issue.

12 MEMBER CLAWSON: It is. It has to
13 do with how you interpret zeroes and blanks.

14 MR. STIVER: Right. But I wonder
15 if that might have been addressed in a more
16 recent version --

17 CHAIR GRIFFON: In a more recent
18 version.

19 MR. STIVER: -- of Report 33.
20 Let's take a look here.

21 CHAIR GRIFFON: You can follow up
22 on that, yes.

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1 MR. STIVER: Yes, I can follow up
2 on it.

3 CHAIR GRIFFON: Okay. Where are
4 we at? 218, Observation? Observation 1.

5 MR. FARVER: Observation 1 looks
6 like a regurgitation of something that was in
7 our review of the Site Profile about the lack
8 of external monitoring data for the applicable
9 site --

10 CHAIR GRIFFON: Right.

11 MR. FARVER: -- for coworker data.

12 CHAIR GRIFFON: Which we already
13 brought up the Workgroup question, right?

14 MR. FARVER: Yes.

15 CHAIR GRIFFON: 218, Observation
16 2.

17 MR. FARVER: Two, another Site
18 Profile issue about the beta dose to hands.

19 CHAIR GRIFFON: So, we are going
20 to check these, whether they are --

21 MR. STIVER: Yes, these are being
22 checked out.

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1 CHAIR GRIFFON: Okay.

2 MR. FARVER: 218, 3. Similar on
3 issues with the K-25 Site Profile about
4 tech-99 beta dose, and the calibration of
5 K-25.

6 CHAIR GRIFFON: Well, we do have a
7 K-25 Workgroup, right?

8 MR. STIVER: Yes, we do. It is
9 another Fitzgerald.

10 CHAIR GRIFFON: Yes.

11 MR. STIVER: And I believe there
12 were three matrix items that were discussed at
13 the last meeting. I can follow up on that.

14 CHAIR GRIFFON: Okay. 218,
15 Observation 3, give to the K-25 Workgroup.

16 And Observation 4, let's look at
17 it. So, this is a question of the tech-99
18 coworker data, right?

19 MR. STIVER: Yes.

20 CHAIR GRIFFON: Coworker model,
21 coworker data, I would imagine.

22 Is TIB-19 a K-25-specific coworker

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1 model or is it --

2 MR. FARVER: No, that is a general
3 just how to handle coworker bioassay data.

4 CHAIR GRIFFON: Oh, yes, okay.

5 MR. FARVER: I don't really know.

6 CHAIR GRIFFON: Yes. I mean, if
7 there is a question on this coworker model, I
8 don't know if this is being examined by the --

9 MR. FARVER: Do you want us to
10 look some more at this one and find out what
11 it is?

12 CHAIR GRIFFON: Yes, yes, yes.

13 MR. STIVER: Okay. I will go
14 ahead and take that as an action.

15 CHAIR GRIFFON: And it is the last
16 one, right?

17 MR. STIVER: Yes.

18 CHAIR GRIFFON: I think we are
19 going to be able to work later because David's
20 plane is not going to --

21 MR. KATZ: Because no plane is
22 leaving.

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1 (Laughter.)

2 David is spending the night.

3 MEMBER KOTELCHUCK: If it's just
4 snowing, if it stays a little cooler and just
5 keeps snowing, it is not a problem. It is
6 only when it turns to rain.

7 CHAIR GRIFFON: Yes.

8 MR. FARVER: Well, that is what it
9 was supposed to do.

10 MEMBER KOTELCHUCK: Yes, that is
11 what it was supposed to do, but this looks
12 like it's doing the opposite, and it is two
13 hours --

14 CHAIR GRIFFON: Okay. I propose
15 we take a five-minute break, and then, we will
16 figure out if we can go on to the other ones,
17 the other sets.

18 I just want to get a sidebar and
19 see what we think is ready. But let's take
20 five, just a stretch break.

21 MR. KATZ: Okay. Take five, on
22 the phone.

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1 (Whereupon, the foregoing matter
2 went off the record at 3:54 p.m. and went back
3 on the record at 4:06 p.m.)

4 MR. KATZ: So, we're back, Dose
5 Reconstruction Subcommittee.

6 David and Wanda, we were checking
7 calendars during the break for the next
8 meeting, because we have a lot of homework
9 that has already been done on Sets 10 through
10 13, the Savannah River, Rocky Flats, Los
11 Alamos. We are going to try to get to a
12 little bit of that this afternoon, but there
13 will be plenty left. And then we will try to
14 add to that as well, but just to continue
15 making progress here.

16 So, we are looking at fairly soon
17 another meeting, and the dates we have as
18 possibilities are March 25th, which is a
19 Monday, or the 28th. So, can you let us know?

20 Or can you check your calendars now and see
21 if either of those work for you?

22 MEMBER MUNN: I will have to go

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1 get my Board calendar. I don't have it on my
2 desk.

3 MR. KATZ: Okay.

4 MEMBER MUNN: I will let you know
5 as soon as I can.

6 MEMBER RICHARDSON: Either of
7 those are okay for me.

8 MR. KATZ: Okay. Good.

9 MEMBER MUNN: I think they will be
10 for me, too, but I need to check.

11 MEMBER RICHARDSON: Could you
12 repeat the dates once more, March 25 --

13 MR. KATZ: Yes, March 25th, which
14 is a Monday, or the 28th.

15 MEMBER RICHARDSON: All right.

16 MR. KATZ: And then we will have
17 to check with Poston.

18 Okay. Well, we can carry on now.

19 And then, Wanda, just let us know during this
20 meeting if you have a problem with one of
21 those days.

22 MEMBER MUNN: Yes. Okay.

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1 CHAIR GRIFFON: Okay. So, in the
2 meantime, we are pulling up -- I have a matrix
3 or a document called "SC&A Responses 10
4 through 13, SRS Findings, August 6th, 2012".
5 That is when I updated it last, and I am sure
6 I circulated it.

7 (Simultaneous speaking)

8 MR. CALHOUN: I've just got
9 June's. My says June 2012.

10 CHAIR GRIFFON: Do you have it
11 easily that you can --

12 MR. KATZ: I can't get into the
13 system with this computer.

14 CHAIR GRIFFON: Oh.

15 MEMBER MUNN: I can do the 25th or
16 the 28th.

17 MR. KATZ: Okay. I think you
18 wanted to say either works? Okay. Then, I
19 think we are going to go with the 25th, right?
20 Isn't that better for you, Mark, the 25th?

21 CHAIR GRIFFON: Yes. Yes, the
22 Monday.

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1 MR. KATZ: Okay. So plan on March
2 25th, then.

3 CHAIR GRIFFON: Alright. And if I
4 send this to, let's see -- is there a way -- I
5 don't have everybody on my list, Ted. Is
6 there a way I can --

7 MR. KATZ: Just send it to Stu.
8 Stu can forward it to Grady.

9 CHAIR GRIFFON: Okay.

10 MR. HINNEFELD: Yes, if you send
11 it to me, I will forward it.

12 CHAIR GRIFFON: Stu can send it.
13 Okay.

14 MR. KATZ: But everyone else
15 should have gotten it because I would have
16 sent it to everybody, unless you just updated
17 your own and didn't send it to me.

18 CHAIR GRIFFON: I mean, I usually
19 do this pretty --

20 MR. KATZ: Yes.

21 CHAIR GRIFFON: Yes.

22 MR. FARVER: I don't know that we

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1 have received one, unless you sent one out
2 recently.

3 MR. KATZ: I didn't send it
4 recently. I send it right after I get it from
5 Mark. So, it's not recently.

6 MR. FARVER: Okay. Did you send
7 one for the Savannah River ones?

8 MR. KATZ: I sent out Mark's
9 matrix after he sent it to me.

10 MR. FARVER: Right.

11 MR. KATZ: Whenever he sent it to
12 me --

13 MR. FARVER: Did he send you one
14 for Savannah River findings?

15 MEMBER KOTELCHUCK: Yes, he did,
16 and he did it on August 7th.

17 CHAIR GRIFFON: It would have been
18 right after the meeting.

19 MEMBER KOTELCHUCK: I have it on
20 August 7th.

21 MR. KATZ: August 7th. Oh, if you
22 have it, everyone else got it then.

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1 MEMBER KOTELCHUCK: Yes.

2 MR. CALHOUN: The 7th.

3 MR. FARVER: I couldn't find it,
4 but that doesn't mean I didn't get it.

5 MR. CALHOUN: January 7th?

6 MR. KATZ: August 7th.

7 CHAIR GRIFFON: The meeting was
8 August 6th. So, it was sent out right after.

9 MR. STIVER: Okay. We've got the
10 August 6th version. So, could you send me the
11 August 7th version, please?

12 MEMBER KOTELCHUCK: You know what?
13 I didn't have my government computer, and you
14 just sent them to me at Hunter. That is what
15 it is. So, he just sent me special a date
16 late.

17 MR. KATZ: Yes, the same version,
18 right.

19 CHAIR GRIFFON: Stu, I just sent
20 it to you.

21 MR. HINNEFELD: Okay.

22 CHAIR GRIFFON: If anybody else

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1 needs it, could you forward it to them? I
2 don't know who.

3 (Simultaneous speaking.)

4 CHAIR GRIFFON: And once you have
5 it, we are on page 13. I think we did some
6 work up to that point. So, we are on Case No.
7 278.1, or Finding No. 278.1.

8 MR. KATZ: Mark, do you want to
9 start at 8:30 next time or is nine o'clock
10 better for you?

11 CHAIR GRIFFON: Better start at
12 9:00. I might catch a Monday morning flight
13 again.

14 MEMBER MUNN: An epiphany.
15 Welcome to my world.

16 (Laughter.)

17 MR. KATZ: One for Wanda.

18 MEMBER MUNN: Yes.

19 CHAIR GRIFFON: Wanda likes the
20 7:00 Eastern Time starts.

21 MR. FARVER: 278.1, here we are.

22 CHAIR GRIFFON: Yes.

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1 MR. FARVER: Okay. Oh, Okay.
2 "Improperly converted recorded photon dose to
3 organ dose."

4 This is the max/min DCFs used in
5 the EDCW workbook, which has already been
6 addressed by the Subcommittee earlier and
7 corrected.

8 CHAIR GRIFFON: So, it is a QA
9 problem, but it has been corrected?

10 MR. FARVER: It is not even a QA
11 problem. It was just a workbook thing where
12 they were using -- gosh, what was that?

13 MR. SIEBERT: We are using the
14 maximum of all geometry and the minimum of all
15 geometry, if I remember correctly. And then,
16 once we realized we should be using the
17 maximum/minimum of AP, we changed it.

18 MR. FARVER: Right.

19 CHAIR GRIFFON: Oh, yes.

20 MR. FARVER: That's it.

21 CHAIR GRIFFON: Okay. So, I think
22 that's closed.

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1 MR. FARVER: Yes.

2 CHAIR GRIFFON: I mean, we can
3 close it.

4 MR. FARVER: Yes. I mean, it was
5 a workbook thing that got corrected in the
6 workbook, I believe. Yes.

7 278.2 is the same issue for missed
8 photon dose to organ dose. The same workbook,
9 the same issue, the same correction. So we
10 can close that one.

11 CHAIR GRIFFON: And for both of
12 these, just refresh my memory, but it wouldn't
13 impact older cases, right? Is there any
14 evaluation to see the impact on previous
15 cases?

16 MR. FARVER: That I don't know if
17 it led to a PER or anything.

18 MR. SIEBERT: Yes, there was a PER
19 involved.

20 MR. FARVER: Well, okay. So,
21 that's a yes.

22 CHAIR GRIFFON: You don't happen

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1 to know the PERs for those two?

2 MR. CALHOUN: I could probably --
3 278, is that the case number?

4 CHAIR GRIFFON: Yes.

5 MR. FARVER: Yes.

6 MR. CALHOUN: Okay. Let me look.
7 I might be able to see.

8 CHAIR GRIFFON: Okay. For 278.1
9 and .2, for those. All right. Go ahead on
10 while he's looking for that.

11 MR. FARVER: Okay. Oh, 278.3.
12 "Failed to properly account for all missed
13 photon doses."

14 This was our standard Savannah
15 River Site LOD-over-2 issue. It was a
16 workbook that got corrected and has already
17 been taken care of. So, we can close that
18 one.

19 CHAIR GRIFFON: Okay. And I would
20 have the same question, you know, that you are
21 looking for PERs associated with this, if any.

22 MR. CALHOUN: It's not listed.

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1 CHAIR GRIFFON: Yes.

2 MR. CALHOUN: What is the topic of
3 the PER?

4 CHAIR GRIFFON: Well, the first
5 two are --

6 MR. FARVER: Oh, gosh.

7 CHAIR GRIFFON: -- photon to organ
8 dose.

9 MR. CALHOUN: I am going to have
10 to look because I can't -- I don't think I can
11 find that quickly. I will keep trying.

12 CHAIR GRIFFON: Alright. Fine.

13 MR. FARVER: And the second
14 concern was the issue -- remember, if it's
15 less than LOD over 2 you would treat it as a
16 missed dose? Is that how it was, instead of
17 putting the actual number in?

18 CHAIR GRIFFON: Yes.

19 MR. FARVER: Right? There was
20 that concern.

21 CHAIR GRIFFON: Yes. Okay.

22 MR. FARVER: 278.4. "Failed to

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1 address an incident reported in the CATI
2 report."

3 "There was an inaccurate statement
4 in the DR that no incidents were listed in the
5 record. Should have stated that no incidents
6 were considered, since the claim was already
7 above 50 percent."

8 Fine. This is our same CATI one
9 that we've talked about before, previously
10 discussed. We suggest closing this finding.

11 CHAIR GRIFFON: Right. And, yes,
12 this has been corrected, but it was a QA
13 question earlier.

14 MR. FARVER: Yes.

15 CHAIR GRIFFON: Not even a QA
16 really, I guess. But it has been corrected?

17 MR. FARVER: Right. This was back
18 in a 2004 case or so.

19 CHAIR GRIFFON: Yes.

20 MR. FARVER: Ancient.

21 CHAIR GRIFFON: Okay.

22 MR. FARVER: Observation 1 with

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1 278 is the same one from our Site Profile
2 review about the two-element and multi-element
3 film dosimeters may underestimate dose by 25
4 to 40 percent.

5 CHAIR GRIFFON: Did this go to the
6 SRS Site Profile? I mean, I think, right?

7 MR. CALHOUN: This is an SRS TBD
8 PER. It is PER-30. That is the driver here.

9 CHAIR GRIFFON: Yes, for those
10 first ones we were talking about?

11 MR. CALHOUN: Yes.

12 CHAIR GRIFFON: Okay.

13 MR. CALHOUN: 2007.

14 CHAIR GRIFFON: All right.

15 MR. CALHOUN: December.

16 CHAIR GRIFFON: So, back to
17 Observation 1, then, did we say this is a Site
18 Profile --

19 MR. CALHOUN: It was a Site
20 Profile one. It was identified in the Site
21 Profile review.

22 CHAIR GRIFFON: And sent to the

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1 Workgroup, right?

2 MR. CALHOUN: Yes.

3 CHAIR GRIFFON: Okay.

4 MR. FARVER: 278, Observation 2
5 just points out that the same findings we had,
6 three findings we had for the photon doses
7 above also apply to the neutron doses, but we
8 didn't write them up as findings because they
9 have already been corrected.

10 No. They have not been corrected
11 at the time of the report, but we just didn't
12 write them up again. These were standard ones
13 that we were writing up every single time we
14 did the Savannah River Site case.

15 CHAIR GRIFFON: Right.

16 MR. FARVER: We would write them
17 up for photons. We would write them up for
18 neutrons.

19 CHAIR GRIFFON: Right, right.

20 MR. FARVER: It got to the point
21 where we were just writing up findings and we
22 were already talking about these in

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1 Subcommittee. So, by the time this case came
2 around, we said, "Well, let's just not write
3 up all these extra doses for neutrons. We'll
4 just point out that the same ones would apply
5 and they are going to get corrected the same
6 way," which they did.

7 MEMBER CLAWSON: That's also why
8 these are observations, isn't it?

9 MR. FARVER: Yes, we didn't make
10 them findings just because we didn't want to
11 keep going over this.

12 CHAIR GRIFFON: Okay.

13 MR. FARVER: Observation 3 has to
14 do with another SRS TBD concern that was
15 identified over the limited data that was used
16 for the interpretation, and the interpretation
17 of such data for defining location-specific
18 neutron-to-photon ratios. Remember the
19 neutron-to-photon ratios we talked about
20 earlier for Savannah River? The same thing,
21 but that's contained in the Site Profile
22 review. So, that is a Workgroup issue.

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1 CHAIR GRIFFON: Okay. So, to the
2 Savannah River Workgroup. Okay.

3 And 279.1.

4 MR. FARVER: 279.1. "NIOSH did
5 not account for all the missed tritium dose."

6 Okay. They assessed it based on
7 all the results, assuming that everything was
8 less than 1 microcurie per liter, but it was
9 not the case. They should have actually used
10 the data because some years the detection
11 limit was above 1 microcurie per liter.

12 MEMBER CLAWSON: Is this an SRS?

13 MR. FARVER: SRS, yes. Anyway, I
14 didn't close this one.

15 CHAIR GRIFFON: Which one was
16 that? I'm sorry.

17 MR. FARVER: 279.1. Because, had
18 we used the actual results, it would come up
19 with a little lower dose.

20 CHAIR GRIFFON: Okay.

21 MR. FARVER: But that's not why
22 they did it. They did it because it was a

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1 mistake.

2 CHAIR GRIFFON: Right. So, it is
3 a QA --

4 MR. FARVER: It is a QA issue.

5 CHAIR GRIFFON: -- finding, right,
6 but closed, anyway?

7 MR. FARVER: Yes.

8 CHAIR GRIFFON: Alright.

9 MR. FARVER: 280.1. "NIOSH did
10 not use the appropriate procedure for
11 determining photon dose."

12 They give an explanation about --
13 it has to do with the energy range used. The
14 DR applied a 30-to-250, 100 percent, and this
15 differs from what is in the TBD, Table
16 5.3.4.1-1. That gives a different energy
17 distribution.

18 CHAIR GRIFFON: Okay. So, this is
19 a QA type of finding, but closed?

20 MR. SIEBERT: No, this is actually
21 an overestimation finding. The dose
22 reconstructors used 30-to-250 keV as an

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1 overestimating assumption rather than using a
2 split, which would lower the PFC. Now, I will
3 agree, probably they should have stated in the
4 Dose Reconstruction Report --

5 CHAIR GRIFFON: Oh, okay. Yes.

6 MR. SIEBERT: -- that they did.

7 MR. FARVER: If it is an
8 overestimate, they should probably state that.
9 Then, it differs from the one in the TBD.

10 MR. CALHOUN: And that is 2004,
11 too.

12 CHAIR GRIFFON: Yes.

13 MR. FARVER: Yes, it has been a
14 while.

15 CHAIR GRIFFON: Okay. I was just
16 reading that you, in your response, said that
17 it should have been caught during one of the
18 peer reviews.

19 MR. FARVER: Well, it should have
20 been caught, then if they are going to use an
21 overestimate, they should say that.

22 CHAIR GRIFFON: Yes.

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1 MR. FARVER: It was not the same
2 one as in the TBD.

3 CHAIR GRIFFON: Right.

4 MEMBER RICHARDSON: So, how do you
5 know in this case whether it is an error or
6 whether this person -- I mean, that it happens
7 to be an error versus it was just done wrong.

8 MR. FARVER: Let me ask Scott.

9 MR. SIEBERT: Well, that I can
10 tell you because I know that we used that as
11 an overestimated assumption quite frequently.
12 So, the fact that it was run that way, there
13 is no doubt in my mind that it was an
14 overestimating assumption and just was not
15 written up.

16 MEMBER RICHARDSON: As opposed to
17 being just kind of force of habit and the
18 person has gotten used to putting a value in
19 and did it erroneously when they weren't even
20 thinking that?

21 MR. SIEBERT: No, it is not an
22 error. It is an overestimate. The error

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1 comes from it was not explained in the Dose
2 Reconstruction Report.

3 MR. FARVER: I think in this case
4 it probably was an overestimate that they got
5 used to using. I think sometimes it is
6 difficult to tell if it is an estimating tool
7 or if it is an error. But in this case I
8 think it probably is just an overestimate tool
9 that they just didn't explain.

10 MEMBER RICHARDSON: Is it
11 documented in the table, the value that you
12 had expected to be there was documented in a
13 table?

14 MR. FARVER: No. No. The table
15 expects a 50 percent split between 30 to 250
16 keV and greater than 250 keV photons. So, you
17 are expecting two different distributions.

18 What they did is they assigned it
19 all as 30 to 250 keV. They assigned 100
20 percent instead of splitting it. So, it was
21 not what we expected to see when we go to the
22 TBD and look at the table of energy

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1 distributions. And that is why we wrote it up
2 as a finding.

3 MR. SIEBERT: Right. And we agree
4 that the dose reconstructors should have put
5 that information in the dose reconstruction
6 write-up.

7 CHAIR GRIFFON: Okay. I don't
8 know how much more we can do with this one.

9 MEMBER CLAWSON: It was about
10 eight-and-a-half years ago.

11 CHAIR GRIFFON: Yes.

12 MR. STIVER: I guess the issue is
13 if you are going to deviate a given procedure
14 just to say so somewhere in the report.

15 CHAIR GRIFFON: Well, it sounds
16 like that was the norm for overestimating,
17 right?

18 MR. HINNEFELD: Yes, it is. It is
19 very common to use that.

20 MEMBER CLAWSON: This is one of
21 the things where you came back to show your
22 work of why you did what you did. Is that --

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1 MR. FARVER: Yes. I mean, I don't
2 mind him doing it as an overestimate. The
3 thing is, it was different than what was in
4 the TBD and there was no explanation.

5 CHAIR GRIFFON: Right, right.

6 MR. FARVER: And we will see that
7 again in the next finding. 280.2 did not use
8 the appropriate procedure for the assignment
9 of shallow dose. Instead of assigning it to
10 less-than-30 keV photons, they assigned it to
11 20 keV photons.

12 MEMBER KOTELCHUCK: No, I think
13 you mean they listed it as less than 30 when
14 it was, in fact, 17 from plutonium. And you
15 were saying that they ought to accept it, get
16 ahead of the game. You wanted them to say 20
17 keV instead of less than 30 because it's
18 identified as a plutonium exposure, which is
19 fine.

20 MR. SIEBERT: However, IREP only
21 takes the binning of less-than-30 keV, 30 to
22 250 keV, and over 250 keV.

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1 MEMBER KOTELCHUCK: Right.

2 MR. SIEBERT: So, that is why we
3 used that binning process and --

4 MEMBER KOTELCHUCK: Sure.

5 CHAIR GRIFFON: But you didn't
6 recommend closing here?

7 MR. FARVER: No.

8 CHAIR GRIFFON: I mean, you didn't
9 come to agreement here?

10 MR. FARVER: No, because there is
11 a table --

12 CHAIR GRIFFON: Right.

13 MR. STIVER: There is a table in
14 the Dose Reconstruction Report. They should
15 have labeled it 20 as opposed to less than 30.

16 MR. FARVER: Okay. I believe what
17 happened is they used the dose conversion
18 factor for 20 keV, and it was labeled less-
19 than-30 keV. So, I am looking for a less-
20 than-30-keV dose conversion factor. But the
21 one they have there is different.

22 MR. STIVER: The one they have is

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1 for 20.

2 MR. FARVER: But it is labeled
3 less-than-30.

4 MR. STIVER: Right. So, it was a
5 matter of just using the proper heading.

6 MR. FARVER: Because if you go
7 back and look at what is suggested there on
8 the far right, they suggest you go to the TBD
9 and that guidance concerning the use of the
10 20-keV dose conversion factor for plutonium
11 facilities, because that is not talked about
12 in the TBD.

13 MEMBER KOTELCHUCK: Is this kind
14 of an isolated incident or is this kind of a
15 mistake?

16 MR. FARVER: It is something they
17 pull out of Table 4.1(a) out of OCAS-IG-001.

18 MR. SIEBERT: There is no mistake.
19 When we are using low-energy exposure and we
20 determine it's from plutonium, we use the DCFs
21 that are from OCAS-IG-001 which are
22 specifically for low-energy photons from

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1 plutonium versus the generic less-than-30-keV
2 photon DCF.

3 MR. FARVER: I understand, but I'm
4 not --

5 MR. SIEBERT: I just pointing out
6 -- the question was asked, is this is error?
7 -- and I am just pointing out that it is not
8 an error.

9 MR. FARVER: No, it is not.

10 MR. SIEBERT: But what Doug is
11 saying, and it should be clarified that it is
12 not the normal less-than-30 keV --

13 MR. FARVER: Right.

14 MR. SIEBERT: -- although you need
15 to mark it as less-than-30-keV in IREP because
16 that is the only bin that is acceptable, and
17 it seems obvious to me that 20 keV is less
18 than 30 keV.

19 MR. FARVER: No, no, I think the
20 confusion was, when we looked at the dose
21 reconstruction and the table of parameters,
22 there's your dose DCF for less-than-30 keV,

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1 but it is not really the less-than-30 keV, it
2 is the 20-keV dose conversion factor. Okay?

3 MR. STIVER: It is true, but Scott
4 has a good point that in the IREP input there
5 isn't --

6 MR. FARVER: Oh, I understand
7 that, but I am just saying, when we are going
8 to these DRs and looking up their parameters,
9 we are looking for a less-than-30 keV dose
10 conversion factor. Okay?

11 MR. STIVER: That is something
12 that should be, well, it should be spelled in
13 the Dose Reconstruction Report.

14 MR. FARVER: And really, I wasn't
15 even aware of the IG-001 Table 4.1(a) until
16 Scott pointed it out earlier, and we went and
17 looked it up. And that's okay because that
18 talks about lower-energy photons for plutonium
19 facilities.

20 But that information, or neither a
21 reference to that, is contained in the
22 Savannah River document. So, you might put

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1 some connection between the two, saying for
2 plutonium facilities you may want to use the
3 lower-energy DCFs of IG-001.

4 MR. SIEBERT: Yes, and I agree. I
5 believe when we are updating the Savannah
6 River TBD, we are going to be putting
7 something of this sort in there. It was
8 written before OCAS-IG-001 was updated. It's
9 an old TBD.

10 MR. FARVER: Well, yes, it is.
11 But, I mean, that was the suggestion. It was
12 just to make a connection in the TBD between
13 the two, so that it doesn't come up again.
14 It's not that what you did was wrong.

15 CHAIR GRIFFON: Yes. So, we will
16 close it out, and they will consider updating
17 the TBD.

18 MR. FARVER: Sure. Right.

19 CHAIR GRIFFON: That's fine.

20 MEMBER CLAWSON: Will that go to
21 the Workgroup? Savannah River?

22 CHAIR GRIFFON: Well, I think it

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1 is just NIOSH will consider updating the TBD.

2 MR. FARVER: This is an
3 implementation guide.

4 CHAIR GRIFFON: Yes.
5 280.3.

6 MR. FARVER: 280.3 did not
7 appropriately account for all the missed
8 tritium dose.

9 CHAIR GRIFFON: I don't think this
10 is legal here. You referred us to a finding
11 ahead.

12 MR. FARVER: Yes, I referred you
13 on down the road, which probably just loops
14 back.

15 (Laughter.)

16 CHAIR GRIFFON: And I am sure you
17 said refer us to 280.3 on that one.

18 MR. FARVER: It's an endless loop
19 that will keep us here for hours.

20 CHAIR GRIFFON: Yes.

21 MR. SIEBERT: This goes back to
22 the Savannah River TBD, the values that were

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1 put in place for tritium at the time were
2 based on the reporting values for tritium, not
3 necessarily the detection values for tritium.

4 Once we use the actual detection
5 values that are in the case itself or the
6 tritium values that you see, they're at 1
7 microcurie per liter versus the reporting
8 level that may have been at 5 or 10
9 microcuries per liter, depending on the
10 timeframe. And we agree that the Savannah
11 River TBD is going to be updated to reflect
12 that. And we do have this information in the
13 DR guidance document for Savannah River, and
14 have had it in there for quite a while.

15 MR. FARVER: Okay. So, all it
16 comes down is --

17 CHAIR GRIFFON: Updating the TBD.

18 MR. FARVER: -- when you update
19 the TBD, add the correction information,
20 that's all.

21 MR. SIEBERT: Correct.

22 CHAIR GRIFFON: So that's closed,

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1 and NIOSH will update the TBD.

2 MR. FARVER: And now we go back.

3 CHAIR GRIFFON: Alright.

4 MR. FARVER: 280, Observation 1.

5 DOE record for this case included
6 program of PER, individual case Evaluation
7 Report, and the guidelines in OCAS-PER-12.
8 So, this DR may not be affected by the
9 presence of Super S plutonium, although not
10 for the reasons given by NIOSH in their PER
11 report. They are looking into it.

12 CHAIR GRIFFON: Okay.

13 MR. FARVER: And I think it has to
14 do with just a justification that was in the
15 letter, the PER letters or the ICE letters.
16 It didn't match up with what was really done.

17 CHAIR GRIFFON: Oh, okay. Okay.

18 MR. FARVER: Not that it would
19 have changed anything. It just was not the
20 same.

21 CHAIR GRIFFON: And this one isn't
22 any more serious because the response is in

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1 green. But I shouldn't take that as --

2 (Laughter.)

3 I am just kidding.

4 NIOSH's response is in like a
5 green font on my computer.

6 MR. SIEBERT: No, I believe that
7 is just text.

8 CHAIR GRIFFON: Okay. Alright.
9 So, that is still NIOSH is going to follow up
10 on that one.

11 And let's see. I'm going to
12 propose that we knock it off there.

13 MR. FARVER: Okay.

14 CHAIR GRIFFON: Has everybody had
15 enough? Grady has had enough.

16 MR. CALHOUN: Absolutely.

17 (Laughter.)

18 CHAIR GRIFFON: For those on the
19 phone, I will send updates of the matrices
20 soon because. Because if I don't do it soon,
21 I won't do it.

22 MR. KATZ: Good. Send them to me,

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1 and I will forward them on.

2 CHAIR GRIFFON: Right. We will
3 get those out soon.

4 And we are on for March 25th,
5 unless we hear otherwise.

6 MR. KATZ: Yes, and I am posting
7 the note.

8 CHAIR GRIFFON: Yes. Okay.

9 MEMBER MUNN: The weather will
10 improve by then.

11 MR. KATZ: Right. That will get
12 the spring blizzard.

13 CHAIR GRIFFON: And with that, I
14 think we are adjourned.

15 (Whereupon, at 4:39 p.m., the
16 meeting in the above-entitled matter was
17 adjourned.)

18

19

20

21

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