

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

+ + + + +

ADVISORY BOARD ON RADIATION AND  
WORKER HEALTH

+ + + + +

SUBCOMMITTEE ON DOSE RECONSTRUCTION REVIEWS

+ + + + +

MONDAY  
DECEMBER 19, 2011

+ + + + +

The Subcommittee convened in the  
Brussels 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 B. RICHARDSON, Member
- WANDA MUNN, Member

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ALSO PRESENT:

TED KATZ, Designated Federal Official  
KATHY BEHLING, SC&A\*  
DOUG FARVER, SC&A  
STU HINNEFELD, DCAS  
JENNY LIN, HHS  
JOHN MAURO, SC&A\*  
MUTTY SHARFI, ORAU Team\*  
SCOTT SIEBERT, ORAU Team\*  
JOHN STIVER, SC&A\*  
BRANT ULSH, DCAS

\*Participating via telephone

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review (sets 7 - 10)

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

2 9:05 a.m.

3 MR. KATZ: Good morning everyone  
4 in the room and on the line. This is the  
5 Advisory Board on Radiation and Worker Health  
6 Dose Reconstruction Subcommittee.

7 Just getting started here and we  
8 will begin with roll call beginning with Board  
9 Members in the room.

10 (Whereupon, the roll call was  
11 taken.)

12 MR. KATZ: Okay, a small group but  
13 I think that takes care of it. We can get  
14 started. There is an agenda, it's on the Web  
15 page. It's everything everybody's familiar  
16 with. We have sets, I think, 7 through 9 to  
17 complete, right? And 10-year review follow-up  
18 on DR issues.

19 CHAIRMAN GRIFFON: Okay. Yes, I  
20 think in preparation for this meeting I was  
21 reviewing the July transcript so we haven't  
22 met in awhile but I think a couple of main

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1 things. I mean, I know this is a tough week  
2 to have meetings but I at least wanted to  
3 touch base and see where we stand and at least  
4 get a path forward for some of this QA/QC,  
5 some of the QA/QC issues. I'm looking back  
6 and I'm going to need help from everyone in  
7 the room but I'm looking back at the  
8 transcripts and there is, you know, some  
9 items. The last meeting we discussed some  
10 possible options for how to, really they were  
11 how NIOSH or ORAU could modify their QA/QC  
12 system to do what we're terming reworks of  
13 cases, reruns of cases and whether it made --  
14 different models, different options made  
15 sense.

16 The other, I guess some of the  
17 more mechanical things, I know we had, SC&A  
18 had generated several of our findings from the  
19 early sets of cases on QA/QC and I think there  
20 was a follow-up that NIOSH was going to do on  
21 those. In the last meeting, Stu, you  
22 indicated that you kind of had wrapped that up

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1 but not released it to the Subcommittee yet.  
2 It was in final reviews or whatever. Do you  
3 remember what I'm referring to?

4 MR. HINNEFELD: Yes.

5 CHAIRMAN GRIFFON: It's the --  
6 yes, yes.

7 MR. HINNEFELD: Yes, I remember.

8 CHAIRMAN GRIFFON: So that's one  
9 data point. I'm not sure if that will help  
10 shed some light on a path forward or not, but  
11 that's one thing. I'll just bring up a couple  
12 of things and then we can discuss it.

13 The other thing we were trying to  
14 grapple with was, you know, just this path  
15 forward and the problem we seem to be having  
16 constantly as this DR Subcommittee is that  
17 we're looking at cases that are often quite  
18 old, so the question comes up that we say  
19 well, we found this sort of, maybe not a trend  
20 but we found some pattern of some problems and  
21 then we talk to NIOSH and ORAU and it's quite  
22 obvious that that has not -- it's different

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1 now, it's done different now. And then we ask  
2 well, you know, I think we talked around this  
3 issue for awhile at the last meeting too was  
4 well, what's the benchmark. You know, are you  
5 tracking this and have your changes actually  
6 reduced the rates of these sort of  
7 occurrences. And I'm not sure internally  
8 whether we ever heard whether ORAU had some  
9 good benchmarks or whether, you know, you were  
10 just making some common sense changes that  
11 made sense. You saw some errors but there  
12 wasn't necessarily any documentation of where  
13 you started and where you're at now and that  
14 kind of thing, so.

15 MR. HINNEFELD: Yes, I think it  
16 would be -- I don't think we would be able to  
17 over history track a -- follow a track of  
18 these errors were being made and identified in  
19 a quality review, this review or some other  
20 review, and therefore it's fed back and we  
21 made these specific changes. It's going to be  
22 hard to resurrect a record like that. My

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1 recollection from the analysis that SC&A have  
2 done of QC and QA errors and it was, you know,  
3 that we had gone through that. We'd done some  
4 preliminary, yes, we agree these are findings  
5 and I agree. My memory is very much like  
6 yours that our discussion here was those dose  
7 reconstructions were done so long ago that  
8 many of these things aren't done this way  
9 anymore and essentially the question is moot.  
10 And so we said at that time that let's, in  
11 order to get a better feel for this let's look  
12 at the most recently reviewed ones that we  
13 have. And since a specific finding in the 10-  
14 year program review or a specific  
15 recommendation in the 10-year program review  
16 was that if in fact there are mistakes coming  
17 out in dose reconstructions that are found in  
18 review like by this Subcommittee why is it  
19 that all this quality, what we say we're doing  
20 quality isn't finding those errors. And in  
21 order to get the best take on that we wanted  
22 to look at some of the most recently completed

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1 dose reconstructions that had been reviewed in  
2 order to have a more current view than what  
3 was comprised in the SC&A review. So we have  
4 done that.

5           We have taken, at the time we made  
6 that decision the most recently delivered, the  
7 latest review set we had was the 12th set. We  
8 took the five individual dose reconstructions  
9 from that set that had the latest completion  
10 dates and we looked at the SC&A findings for  
11 those five cases and then made the evaluation  
12 of looking for QA/QC errors. So we had our  
13 contractor ORAU do that task, provide us a  
14 report. We then kind of reviewed that report  
15 and have a preliminary judgment of what we  
16 feel are QA/QC errors. There were still some  
17 there. And we fed that back to, and we're  
18 starting, just now starting the analysis of  
19 those errors and to figure out what is it  
20 about our QA program that wasn't there that  
21 should have been that would have caught these  
22 errors. And so that analysis is underway now

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1 but we don't have that.

2 We do have I believe a summary --  
3 we haven't really reviewed this for the  
4 purpose of sharing it and so it may be a  
5 little rough and it may be the opinion of the  
6 people who did it rather than the office  
7 opinion, but we do have that intermediate  
8 analysis that was done of here are the errors,  
9 these are -- this first analysis, what we feel  
10 are QA/QC errors. So we might be able to  
11 resurrect that and submit it to the Board  
12 Members today. But that's the last thing we  
13 have because the final piece, what about the  
14 QA/QC program didn't see these things. That  
15 part's not done yet. So we have done those  
16 things.

17 CHAIRMAN GRIFFON: And that at  
18 least gives us some newer data.

19 MR. HINNEFELD: Yes, and in fact  
20 even then -- the problem is we're always  
21 following because this Board reviews cases  
22 that are finally adjudicated. So that puts

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1 you months downstream anyway from the time --  
2 at the time they're finally adjudicated  
3 they're usually months downstream from the  
4 time we did the dose reconstruction. And so  
5 then you select them, review them, publish  
6 them, you know, you're probably always a year  
7 downstream. So that's always going to be a  
8 little tough.

9 Now if you recall at our last  
10 meeting one of the discussions about  
11 generating real-time data about what kind of  
12 quality, and we had a fairly extended  
13 discussion about duplicate analyses and is  
14 there a way to do a duplicate. We talked  
15 about several possible ways of having a bunch  
16 of dose reconstructors do the same one, and we  
17 felt like we couldn't do that not only for a  
18 resource reason but also because we just don't  
19 have that many dose reconstructors who are  
20 expert in a particular site. But we did agree  
21 that that was something we needed to do, some  
22 sort of duplicate as blind as possible. And

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1 so we have started this.

2 CHAIRMAN GRIFFON: When you say --  
3 I just want to clarify, when you're saying  
4 "we" is that your NIOSH staff? Is that NIOSH  
5 and ORAU, or --

6 MR. HINNEFELD: Well, I think  
7 it'll be clear when I'm further on. The  
8 decisions were made by NIOSH.

9 CHAIRMAN GRIFFON: Okay.

10 MR. HINNEFELD: The program was  
11 built by NIOSH. It's on our side of the, you  
12 know, all the claims.

13 CHAIRMAN GRIFFON: Yes, I'm trying  
14 to clarify.

15 MR. HINNEFELD: All the claims  
16 move through the system in a -- by a  
17 computerized fashion. There's a computer  
18 application that allows -- the claim is  
19 submitted on, it's reviewed on, it's returned  
20 on, you know, all that occurs in this. None  
21 of that, from ORAU's view, none of that has  
22 changed, it looks exactly the same to them as

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1 it always did. The review system, the  
2 duplicate review occurs on our side. Each  
3 week this program randomly selects two claims  
4 and puts them in the inbox for what we call  
5 duplicate review. This is as they come in,  
6 okay, this is new claims coming in. And then  
7 those are assigned to a health physicist on  
8 our side to do a dose reconstruction before we  
9 see the -- before the ORAU dose reconstruction  
10 gets to our side. As far as ORAU, no, there's  
11 nothing, when this case goes to ORAU it goes  
12 just like normal. They don't know that it's  
13 been --

14 CHAIRMAN GRIFFON: And two is sort  
15 of, you're getting about --

16 MR. HINNEFELD: It's like two  
17 percent a month. We figure 2 a week is pretty  
18 close to two percent. It's actually a little  
19 higher, it's a little higher than two percent  
20 because we don't really get 100 a week. So  
21 that system is built, and we have several of  
22 our dose reconstructions done. I checked

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1 right before we went, right about the time of  
2 the Board Meeting which would have been a week  
3 and a half ago, and we had just received four  
4 of what I'll call the production dose  
5 reconstruction from ORAU. So we now have four  
6 instances where we have our dose  
7 reconstruction and the production and we can  
8 start analyzing.

9 Now the analysis isn't done. We  
10 get into this part and we're running into a  
11 holiday so we haven't done that. Like I said  
12 we have four of them. But we do want to  
13 start. So the next step will be to analyze  
14 the production dose reconstruction against  
15 ours, and if there's some done differently in  
16 some fashion then we need to understand why  
17 that is. Theoretically these should come out  
18 approximately the same. I don't know that  
19 we'd ever expect them to come out exact  
20 numerically the same. We think they should  
21 come out approximately the same.

22 CHAIRMAN GRIFFON: Even with, I

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1 mean we had this discussion at the last  
2 meeting too. Even with things like  
3 overestimating.

4 MR. HINNEFELD: Well, that's  
5 always -- that's what's going to be different.

6 CHAIRMAN GRIFFON: Right. It  
7 seems like that could be --

8 MR. HINNEFELD: There's a lot of  
9 flexibility in how overestimate you go.

10 CHAIRMAN GRIFFON: Right.

11 MR. HINNEFELD: And what you  
12 choose, and how you choose to overestimate. As  
13 long as everything else is right and you  
14 choose one or two, you know, you can have some  
15 flexibility in the overestimate. You know,  
16 what may appear most efficient or most easiest  
17 from our dose reconstructor may not be  
18 perceived, in terms of overestimating, may not  
19 be perceived to be easiest from the ORAU dose  
20 reconstructor. And so you may have different  
21 overestimating approaches and differences for  
22 that reason. I mean, that to me is an easy

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1 evaluation to explain.

2           What's not easy to explain is when  
3 people, we think people are doing the same  
4 thing and they get a different answer. Well,  
5 that says something about how clear your  
6 instructions are for dose reconstructors on  
7 how to do that thing. So that's what we  
8 intend to learn from this.

9           And so if we can't easily explain  
10 the differences because of, say, choices of  
11 different efficiency method then that would  
12 speak to something that sounds to me as if it  
13 needs to be fixed, that we need clearer  
14 instruction or better training or something.  
15 You know, one of the QA things that can fix a  
16 situation like that. Now, we can report back  
17 to that and we just couldn't have -- we only  
18 had four cases. That was a week ago, and I  
19 just noticed that we had four cases a week ago  
20 so we don't have anything today, but we could  
21 do it for the next meeting.

22           CHAIRMAN    GRIFFON:           I'm also

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1 wondering if it falls into one of those things  
2 that, you know, you're going to have a certain  
3 amount of mistakes, right? When you do a lot  
4 of cases.

5 MR. HINNEFELD: Yes.

6 CHAIRMAN GRIFFON: So how do you  
7 know if it's something that needs to be fixed  
8 versus something that just happened. You  
9 know, acceptable level of error I guess, you  
10 know.

11 MR. HINNEFELD: Again, we haven't  
12 worked out, you know. We're kind of going to  
13 learn this as we do it because it's hard for  
14 us to envision specifying some sort of, you  
15 know, all the criteria ahead of time. We're  
16 counting on learning about this and what works  
17 as we do it.

18 CHAIRMAN GRIFFON: But that might  
19 even get into more of the ORAU's internal  
20 system, right? It would be, it might behoove  
21 us to look at that as well to see like what's  
22 their baseline and they can, you know, if they

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1 can say well we get, you know, for these data  
2 entry type errors, you know, right now, or a  
3 year ago we were getting this many and we put  
4 so many things in place that now we're  
5 reducing those. This goes back to the  
6 discussion we had last time, you know, what's  
7 the benchmark. Are the systems that we think  
8 we're fixing actually improving the output.

9 MR. HINNEFELD: Okay, we did get a  
10 fairly lengthy document about what's being  
11 done now on quality assurance. And I don't  
12 recall right now, but we can -- I mean, and  
13 this came from the contractor. Part of it  
14 came from the contractor, you know, they gave  
15 us a fairly lengthy document about what  
16 they're doing and then we added some things  
17 that we do and that's been compiled, but I  
18 don't recall right now what it says. I don't  
19 even know that I even read it in detail yet.  
20 It just got compiled in the last few weeks and  
21 published for a meeting we had last week with  
22 our management, so.

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1                   CHAIRMAN GRIFFON:    Yes, because I  
2                   think, I mean it seems like there's only so  
3                   much the smaller NIOSH staff can do.  You're  
4                   going to have to do a sample of some sort.

5                   MR. HINNEFELD:    Right.  Yes.

6                   CHAIRMAN GRIFFON:    But ORAU should  
7                   have some system in place to be tracking all  
8                   of it, you know.

9                   MR. HINNEFELD:    Well, they do  
10                  quite a lot and I just am not familiar with  
11                  how much they do.  And the other question  
12                  we're going to run into is inspecting and  
13                  fixing sufficient, for instance.  If you just  
14                  inspect this item and fix this item, maybe a  
15                  lot of what we're doing is that.  And if you  
16                  inspect this item and fix this item then you  
17                  don't stop what caused that.  You're not  
18                  stopping the problem that caused that item to  
19                  show up the way it did.  So that's I think  
20                  going to be the significant question going  
21                  forward is our QA or QC too heavily dependent  
22                  on finding and fixing, quote, the defective

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1 item, as opposed to identifying the cause of  
2 the defect.

3 So we have a lot. We can talk  
4 about a lot going forward in this Subcommittee  
5 on quality I think. I'm convinced of that.

6 CHAIRMAN GRIFFON: Yes.

7 MR. HINNEFELD: So there's, I  
8 think it's a pretty rich ground. And of  
9 course all this effort is then effort we're  
10 not spending doing something else. You know,  
11 that's the hardest thing because it all, you  
12 know, in order to get to this which I agree is  
13 important there is other work that is also  
14 important that it competes with.

15 CHAIRMAN GRIFFON: Well, the other  
16 thing I've been struggling with is how do we,  
17 I mean we want to stay relevant with our  
18 feedback.

19 MR. HINNEFELD: Right.

20 CHAIRMAN GRIFFON: In other words,  
21 not commenting on the first hundred cases. It  
22 may not be as useful now since, you know.

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1                   MR. HINNEFELD: So, here's I think  
2 going forward what we need to do is make a  
3 point of -- I don't know that we can do it --  
4 I know we can't do it today. Make some  
5 serious schedule milestones on these products  
6 we've been talking about. We can probably  
7 negotiate those with our contractor, you know,  
8 what does it mean overall to the project if we  
9 do this by this date and so on. And then as  
10 we get those, providing them to the  
11 Subcommittee Members rather than holding  
12 everything and waiting for a Subcommittee  
13 meeting. And that way the Members of the  
14 Subcommittee can be brought, you know, aware  
15 of what's going on and we can probably have a  
16 more useful conversation then when we do get  
17 together about the items that have been shared  
18 in the interim. So I would prefer to proceed  
19 more like that and provide more interim  
20 product and in fact if there are items that  
21 rise to attention we'd welcome feedback from  
22 individual Subcommittee Members as well.

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1                   CHAIRMAN GRIFFON:     And is there  
2 anyone, I mean I know -- and we may have even  
3 seen this documentation. I'm forgetting, but  
4 as far as ORAU's program. That was provided  
5 to the --

6                   MR. HINNEFELD:     Well, that was for  
7 our management.

8                   CHAIRMAN GRIFFON:     We had the  
9 visit at the office.

10                  MR. HINNEFELD:     Let's see. I  
11 think I can find it relatively easily. Have  
12 not reviewed it very much but -- okay, yes.  
13 What we provided was not completed. There are  
14 some sections at the end that had not been  
15 done yet. But I can send this. Are you at  
16 csb.gov?

17                  CHAIRMAN GRIFFON:     Yes. If you  
18 would send that before I forget.

19                  MR. HINNEFELD:     Okay. Brad,  
20 you've got an ICP address? Is that the one  
21 you're using?

22                  MEMBER CLAWSON:     Yes.

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1 MR. HINNEFELD: Okay, David, you  
2 have apparently a CDC address?

3 MEMBER RICHARDSON: If you can  
4 send it to the UNC address that would be  
5 easier.

6 MR. HINNEFELD: Okay. What's your  
7 UNC address?

8 MEMBER RICHARDSON: It's  
9 david.richardson@unc.edu.

10 MR. HINNEFELD: How about you,  
11 Wanda? Which one do you want?

12 MEMBER MUNN: I'm on the CDC page  
13 right now.

14 MR. KATZ: John Poston usually  
15 uses his University of Texas one.

16 MR. HINNEFELD: He's J-poston is  
17 it?

18 MR. KATZ: At tamu, T-A-M-U.

19 MR. HINNEFELD: He's just J hyphen  
20 --

21 MR. KATZ: Yes. And Mike only has  
22 his Gmail account. He has not renewed his

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1 security training to use online.

2 CHAIRMAN GRIFFON: I think I owe  
3 security training, too. That's all right, I  
4 owe one at CSB also.

5 MR. KATZ: It doesn't take long.  
6 Just bang it out in 15 minutes.

7 MR. HINNEFELD: This is something  
8 ORAU delivered to us and we put some more  
9 stuff on it. Grady put it together. Yes, I  
10 put Scott and -- put Mutty on there. Those  
11 were the two guys -- there was somebody else  
12 on the phone?

13 DR. ULSH: Mutty.

14 MR. HINNEFELD: Okay and there --  
15 John Stiver was on the phone.

16 DR. MAURO: This is John Mauro. I  
17 just joined you.

18 MR. HINNEFELD: John Mauro's on  
19 the phone. I used their CDC addresses. Kathy  
20 Behling was one.

21 MR. KATZ: Yes, she has CDC, too.

22 MR. HINNEFELD: Okay, does it

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1 follow the normal convention, Kbehling?  
2 Because I've got her SC&A email comes up.  
3 Kathy, does your CDC address follow the normal  
4 convention, Kbehling@?

5 MS. BEHLING: Yes, it does, too.  
6 Thanks.

7 MR. HINNEFELD: I've got  
8 everybody. I don't know if anybody wants to -  
9 - I haven't even looked at this very much  
10 myself.

11 CHAIRMAN GRIFFON: Yes, I mean I  
12 think realistically -- thanks for sending that  
13 out, but I think realistically maybe we --

14 MR. HINNEFELD: It's several pages  
15 long.

16 CHAIRMAN GRIFFON: -- on this  
17 agenda to sort of discuss and then the  
18 Committee Members can like read through it and  
19 maybe have some more precise questions.  
20 Because I think, I mean one of my concerns is  
21 what ORAU is doing internally and whether  
22 we're going to look at some small sample at a

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1 later point and like you said, this be  
2 addressing one particular issue and not  
3 getting at the, you know.

4 MR. HINNEFELD: Yes.

5 CHAIRMAN GRIFFON: I think it  
6 might be more powerful to understand you know  
7 from their standpoint if they at least, even  
8 if they haven't had a benchmark from the past  
9 if they can at least initiate that now, you  
10 know, and then as we go forward we can see  
11 whether, you know, these modifications that  
12 are being made are making a difference or  
13 making improvements, especially -- and then I  
14 think it should probably be, I mean, we've  
15 brought this up in our discussions too but you  
16 know, the question of acceptable errors I  
17 think is different for the 45 to 50  
18 percentile, the cases that are close to  
19 compensable versus the very low. You know,  
20 you might have different levels of review,  
21 different -- so I sort of want to see what  
22 they have in place and then, you know, I guess

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1 as importantly what they're finding. You  
2 know, how has it been working.

3 MR. HINNEFELD: Now I missed the  
4 meeting that was at the ORAU office.

5 CHAIRMAN GRIFFON: Yes.

6 MR. HINNEFELD: I wasn't at that  
7 meeting, and I don't know what was covered  
8 there.

9 CHAIRMAN GRIFFON: Yes, they did  
10 walk us through their sort of process for  
11 handling cases. I'd have to look back at my  
12 notes on some of that but I don't know, David,  
13 if you remember?

14 MR. HINNEFELD: I don't know if  
15 they talked about data entry and data entry  
16 QC, if they did things like that. I don't  
17 know if they would have done some things like  
18 that or if they talked about feedback back  
19 into the operating system from inspection and  
20 identification of defects and things like  
21 that. I don't, since I didn't follow that and  
22 didn't pursue it when I got back I'm a little

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1 --

2 DR. ULSH: We did have a  
3 discussion. We actually went to a workstation  
4 and had a guy pull up, you know, the data  
5 entry screen, showed us some of the procedures  
6 for that. I don't know about the feedback  
7 that you're talking about.

8 MR. HINNEFELD: Well, most QA  
9 systems, the idea about a QA system is when  
10 you find a defect you figure out what was  
11 causing the defect and fix the cause of the  
12 defect.

13 DR. ULSH: Right.

14 MR. HINNEFELD: And so I don't  
15 know, you know, I'm really at a loss as to  
16 what they're doing.

17 MEMBER RICHARDSON: You know, I  
18 remain -- I have a better idea. We asked them  
19 for documents, I was hoping to get a full  
20 procedure on what that process was and they  
21 said, the document was all about human  
22 resources management. I mean as far as I

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1       could tell that was, there was not a  
2       description of a process that was ongoing in  
3       terms of an assessment and identification of  
4       problems and documentation of improvement over  
5       time and quality of the product generated.

6                       MR. HINNEFELD:   Okay.

7                       MEMBER RICHARDSON:   So I think we  
8       got a better understanding of the process of  
9       how they're operating.   It seemed to me that  
10      there was an acknowledgment that there was not  
11      a in-house assessment of say a failure rate  
12      with generation of errors at different steps  
13      in that process.   What they were doing was  
14      showing us sort of innovations and sort of  
15      tools, kind of data entry tools and management  
16      tools which a priori I believe plausibly would  
17      lead to an improvement in data entry, but  
18      there's no empirical demonstration of that  
19      because they've not generated, they don't have  
20      prior to implementing that tool here is the  
21      error rate for that keypunch on these items.  
22      We've implemented a tool and we got a 10

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1 percent improvement. I would have thought  
2 that was fantastic.

3 MR. HINNEFELD: Right.

4 MEMBER RICHARDSON: And so they  
5 agreed. And so I left sort of thinking like I  
6 still would like a 30,000 foot perspective on  
7 the process, not drilling down into as you're  
8 saying, this particular defect you know in  
9 this particular case. That's less interesting  
10 to me than how is the system operating and how  
11 is it evolving over time to get better and  
12 better every year that they maintain this  
13 contract?

14 MR. HINNEFELD: Right.

15 MEMBER RICHARDSON: So that was  
16 kind of, that was my kind of snapshot  
17 impression --

18 DR. ULSH: So is it accurate to  
19 say that when you were there, you know, when  
20 we were at ORAU it appears that there doesn't  
21 exist the kind of document that you're talking  
22 about right now, and it would be nice to see

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1 that.

2 MEMBER RICHARDSON: Yes.

3 DR. ULSH: Is that something we  
4 want to direct ORAU to do then?

5 MR. HINNEFELD: That is on our  
6 list of things to talk to ORAU about. When we  
7 -- when I direct ORAU to do anything that  
8 means that they're not going to do something  
9 else, okay? And so I think this is probably  
10 important enough that we want to do this. I  
11 just want to make sure what they don't do.

12 CHAIRMAN GRIFFON: And then what  
13 is this.

14 MR. HINNEFELD: What falls off the  
15 list.

16 MEMBER RICHARDSON: I felt like us  
17 as a Subcommittee, it would be useful for -- I  
18 mean, I felt sort of strongly that that's  
19 something that needs to be in place. I mean,  
20 I, but I'm one person on the Board. I would  
21 like to see that there was some, any sort of  
22 guidance on what we should be providing to you

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1 in terms of having left that site visit. Do  
2 you want a memo? Do you want, is this  
3 conversation sufficient?

4 MR. HINNEFELD: Well, the  
5 conversation will be on the record now so to  
6 me that's okay. It was, I forget when it was.  
7 I don't remember what the conflict was.

8 MR. FARVER: May 5th or 6th or  
9 something like that.

10 CHAIRMAN GRIFFON: Yes, May.

11 MR. HINNEFELD: Oh, okay. Well, I  
12 know what my conflict was then. Okay. Okay.  
13 This conversation if that's, you know, if  
14 that's the important part of your feedback  
15 from the visit this will be sufficient. If  
16 you think, if there are other things like from  
17 your notes of the visit or something like  
18 that.

19 CHAIRMAN GRIFFON: I mean I think  
20 that was the main takeaway.

21 MR. HINNEFELD: Yes.

22 CHAIRMAN GRIFFON: There was a lot

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1 of things that were --

2 MR. KATZ: There's a transcript.

3 CHAIRMAN GRIFFON: Basically  
4 computer innovations that took place that  
5 would likely have reduced --

6 MR. HINNEFELD: Is there a  
7 transcript --

8 MR. KATZ: Oh, we didn't  
9 transcribe.

10 MR. HINNEFELD: I don't think we  
11 transcribed it because it was going to be kind  
12 of mobile.

13 CHAIRMAN GRIFFON: Yes, we didn't  
14 transcribe that.

15 MEMBER MUNN: Well, and just  
16 looking quickly at the document you've just  
17 sent I see a lot of references to the  
18 procedures that were used but as David points  
19 out not any comment about how the use of this  
20 procedure rather than the preceding one may  
21 have changed the end result.

22 MR. HINNEFELD: Okay. Alright.

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1 CHAIRMAN GRIFFON: I think that  
2 was probably the biggest takeaway.

3 MR. HINNEFELD: Well, we'll get  
4 with ORAU about what can be done. You know,  
5 it seems like there is something that should  
6 be done.

7 CHAIRMAN GRIFFON: I mean, do you  
8 know if they're collecting that kind of  
9 information now?

10 MR. HINNEFELD: Do I know?

11 CHAIRMAN GRIFFON: Yes, yes.

12 MEMBER RICHARDSON: I think we  
13 asked explicitly several times about that.

14 CHAIRMAN GRIFFON: Yes, we did.

15 MEMBER RICHARDSON: It didn't seem  
16 like that sort of assessment was happening.  
17 And I mean, the reason it seems to me it's  
18 important is because a lot of, I would say a  
19 non-negligible portion of the findings that we  
20 have are these findings which are -- should be  
21 easily addressed by -- maybe not easily  
22 addressed, but are the types of kind of

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1 quality assurance/quality control issues which  
2 could be addressed through process changes and  
3 that would minimize the number of findings  
4 that we have to deal with and -- that are more  
5 complicated. And there is some sort of  
6 multiple step evaluation going on and these  
7 minor things are going through, or continuing  
8 to go through.

9 MR. HINNEFELD: Right.

10 MR. KATZ: Does the ORAU contract  
11 have provisions for a quality management  
12 system? It has requirements?

13 MR. HINNEFELD: Yes.

14 MR. KATZ: So they are supposed to  
15 have a quality manual and all those things  
16 that you have under ANSI?

17 MR. HINNEFELD: Well, I forget  
18 what the standard is, but there is a  
19 requirement for a quality management system.

20 MEMBER RICHARDSON: And, Ted, as I  
21 said, when I reviewed it, it seemed to me  
22 there was a lot of boilerplate in there. It

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1 was mostly about the appointment of somebody  
2 who's called a quality manager and it's like  
3 sort of the naming of, I'd say human resources  
4 people to positions. It wasn't a description  
5 of a process.

6 MR. HINNEFELD: Yes, it's  
7 authorities and things like that.

8 MR. KATZ: Because normally you  
9 have categorization of error types and like  
10 you're saying, you track those.

11 CHAIRMAN GRIFFON: Well, that's  
12 why I'm asking. Maybe we just haven't seen --

13 MR. KATZ: It's not --

14 CHAIRMAN GRIFFON: -- information,  
15 but based on our meeting. So that would be  
16 the first step maybe, before you, you know, to  
17 know what they're doing now. Maybe they're  
18 doing something that we're not aware of. But  
19 it didn't seem like that in the meeting.

20 MR. HINNEFELD: Okay.

21 CHAIRMAN GRIFFON: And I think  
22 that's the -- I mean, I guess that would be a

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1 big question moving forward, you know, before  
2 we go any further on our side. I think you  
3 providing us, I think NIOSH's review of a  
4 percentage -- is that sort of where you've  
5 come out from the 10-year -- I missed the  
6 presentation on the 10-year review, but I  
7 mean, one thing that you're putting in place  
8 since the 10-year review is this idea that  
9 you're going to do two per week pulling them.  
10 Are there other --

11 MR. HINNEFELD: Yes. Well, that  
12 came out of actually -- the 10-year program  
13 review recommendation is we should continue to  
14 work with this Subcommittee on DR quality.  
15 That was essentially verbatim what it says. At  
16 the last, I believe it was the July meeting, I  
17 think it was the last meeting of this  
18 Committee we had kind of a discussion about  
19 possible ways to get real-time information on  
20 it. And so the one we came up with was on the  
21 final output of dose reconstruction.

22 CHAIRMAN GRIFFON: Right.

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1                   MR. HINNEFELD:    That's what -- I  
2                   guess we came up with that, NIOSH, not we the  
3                   Subcommittee.

4                   CHAIRMAN GRIFFON:    Yes.

5                   MR. HINNEFELD:    But that was one  
6                   of the items that was being discussed here in  
7                   the Subcommittee.       And so out of that  
8                   discussion at the Subcommittee we built and  
9                   coupled with the recommendations of the 10  
10                  year program review we built this system for  
11                  this duplicate review.    So that's what, you  
12                  know, that's sort of, that's an end point  
13                  macro level, but it doesn't provide steps in  
14                  the process kind of feedback like David was  
15                  talking about.

16                  MR. KATZ:        If it ends up being  
17                  helpful to you, NPPTL -- the national  
18                  protective technology part of NIOSH, they  
19                  have, you can speak to Roland, they have  
20                  several people there who are very highly  
21                  trained and accredited in quality management  
22                  systems generically.    And if you find that in

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1 your discussions that you need some help sort  
2 of in terms of sort of theory and practice for  
3 quality management systems there are some  
4 great people. The one I know is David Book  
5 there, and he really knows inside and out  
6 quality management systems. He may end up  
7 being helpful just on a sort of a consultative  
8 basis if you get into discussions and you're  
9 trying to find a path forward for changes in  
10 that program as it's operating now.

11 MR. HINNEFELD: Okay.

12 CHAIRMAN GRIFFON: So back to your  
13 sampling. When did you initiate this, Stu?  
14 How many weeks has it been?

15 MR. HINNEFELD: We've sampled for  
16 about seven or eight weeks.

17 CHAIRMAN GRIFFON: Seven or eight  
18 weeks. So it's --

19 MR. HINNEFELD: Well no, not quite  
20 that many. When I went to the Board there  
21 were, I believe there were 12 that had been  
22 selected. So now it would be seven or eight

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1 weeks.

2                   Now, there is one we did, the  
3 first two we selected we hit one of the  
4 possible glitches of the system. We selected  
5 cases that came in that were in Classes that  
6 we were in the process of recommending to the  
7 Board. And it was presumptive cancer. And so  
8 we said we should never get a production dose  
9 reconstruction for this claim. So we just  
10 rejected it and pulled another one.

11                   MEMBER RICHARDSON:       So you're  
12 pulling them and then they're going to ORAU  
13 and at some point somebody pulls the plug on  
14 that case and ORAU stops it?

15                   MR. HINNEFELD:   No, no.   ORAU's  
16 dose reconstruction is the production dose  
17 reconstruction.       They provide the dose  
18 reconstruction report just like they do on  
19 every other one.   What we do, we don't write  
20 the entire dose reconstruction report.   We do  
21 the arithmetic in the dose reconstruction, and  
22 then the comparison is between the arithmetic

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1 we did and the arithmetic they did at the end.  
2 But the dose reconstruction that ORAU does is  
3 the one then that goes forward to the  
4 claimant, assuming there's no --

5 MEMBER RICHARDSON: This one that  
6 was a problem, this one that you pulled that  
7 you said it's going to be within a Class, it  
8 was not going to go through ORAU or it was?

9 MR. HINNEFELD: Well, I mean at  
10 this point it follows its normal path. So it  
11 would have gone to ORAU. But cases like that  
12 we tend to pend if we expect a Class to be  
13 added pretty soon. For instance, if we made  
14 the recommendation to add the Class or if the  
15 Board for instance has even voted to recommend  
16 adding the Class because it's, you've got to  
17 be pretty certain you're going to add it. But  
18 you know, we don't work on those claims. We  
19 pend those claims and wait for them to get  
20 paid through SEC. So in this case that, while  
21 that claim came in it's going to fit into a  
22 Class. That's my phone. We'll try that

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1 later. Better than a ring.

2 MEMBER RICHARDSON: But this is  
3 sort of an audit of the work that ORAU is  
4 doing for you.

5 MR. HINNEFELD: Yes.

6 MEMBER RICHARDSON: So you would  
7 get the work that was done for you for ORAU  
8 for that case.

9 MR. HINNEFELD: No, that's the  
10 point, that we won't.

11 DR. ULSH: This is a case that's  
12 been referred to us by DOL. We've got the  
13 records from DOE.

14 MR. HINNEFELD: Well actually, we  
15 started doing -- yes, we have to get the  
16 records from DOE in order to be able to do the  
17 case.

18 DR. ULSH: Right. So then we  
19 selected that to do what we're calling a blind  
20 DR. It's also going to ORAU. Ordinarily it  
21 would go to ORAU, it would work its way  
22 through the machinery over there and then come

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1 over to us and at that time we would do the  
2 comparison. But in this case we reached into  
3 the cookie jar and pulled one out. We said  
4 oh, wait a minute, this is one that's part of  
5 a Class that is most likely going to be  
6 recommended. Therefore, it'll never go  
7 through ORAU's machinery, and we wanted --

8 MEMBER RICHARDSON: That's what I  
9 was asking. The one that's going to get  
10 pulled out, you pulled it and then the plug  
11 was pulled and it wasn't going to go to ORAU.

12 MR. HINNEFELD: Right. They would  
13 never deliver a dose reconstruction. They  
14 would see that the claim came in, but they  
15 would never do a dose reconstruction. It  
16 would be an SEC pull.

17 MEMBER RICHARDSON: Okay.

18 CHAIRMAN GRIFFON: So the 2 per  
19 100 or whatever that you're pulling you're  
20 doing full DR -- you're doing a blind DR  
21 essentially.

22 MR. HINNEFELD: We're doing DR,

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1 we're not just writing the dose reconstruction  
2 report. There's a lot of verbiage in a dose  
3 reconstruction report.

4 CHAIRMAN GRIFFON: Okay.

5 MEMBER RICHARDSON: That's great,  
6 I think it's --

7 MR. HINNEFELD: Well see, when we  
8 started to do the analyses if we start to --  
9 pull our hair out when we try to compare these  
10 things then we'll think, holy cow, what kind  
11 of monster have we built here. I already  
12 think that every day.

13 (Laughter.)

14 DR. ULSH: I'm not surprised that  
15 you liked it because it was your idea.

16 (Laughter.)

17 DR. ULSH: No, I mean you  
18 suggested that we do blind DRs, and we thought  
19 it was a great idea.

20 MR. HINNEFELD: It was the best we  
21 could do to implement the ideas we talked  
22 about. We worked really hard about how are we

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1 going to keep this blind, and there's no way  
2 to have it blind on our side. Everybody on  
3 our side knows when they're doing this they're  
4 doing this for comparison to a production dose  
5 reconstruction. We can keep it blind on the  
6 production side.

7 MR. KATZ: That's all that  
8 matters.

9 MEMBER RICHARDSON: That's who you  
10 want to be blinded anyway.

11 CHAIRMAN GRIFFON: And then I'm  
12 wondering about the feedback of that  
13 information to the Subcommittee.

14 MR. HINNEFELD: Well, part of what  
15 I was suggesting is that as we do these  
16 comparisons we have, like I said we have four  
17 where we could have done comparisons like a  
18 week or so ago. I don't know if we got any  
19 more in the meantime. But as we run through a  
20 group of these comparisons maybe we get four  
21 or five or whatever. I'm not planning to do  
22 like 50 of them before we send them to you.

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1 Let's do a handful and then we'll have this  
2 intermediate product and we'll send it out to  
3 you. Theoretically if you do two a week, you  
4 know, ultimately you could have, you know, you  
5 would have a batch of eight pulled in a month  
6 roughly. And so you could do them sort of  
7 like that as a grouping. Now, they won't  
8 necessarily come in production-wise in  
9 sequence so as long as nothing goes too long  
10 you might wait for the first eight or  
11 something, the first month's pulls or  
12 something. Or we could start, you know, we  
13 started pulling I think in November, you know,  
14 once we get all the ones, the production ones  
15 for the ones that were pulled in November  
16 maybe we just put those together in some sort  
17 of summary report.

18 MR. KATZ: But what you'll share  
19 with the Subcommittee would be a report of  
20 those including a causal analysis for any  
21 differences?

22 MR. HINNEFELD: That would be my

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1 expectation. That would be my expectation. We  
2 haven't done anything yet.

3 CHAIRMAN GRIFFON: -- some  
4 preliminary analysis.

5 MR. KATZ: That sounds good.

6 MEMBER RICHARDSON: I mean, one  
7 idea for us would be moving forward. I mean,  
8 we have this issue that we've been focusing on  
9 DRs for older cases, and as we think about the  
10 type of work that SC&A's doing one way would  
11 be to kind of incorporate their work moving  
12 forward into more of an attention to this same  
13 stream of contemporary cases that's been  
14 generated. And to help or to contribute  
15 another perspective on the analysis of these  
16 side-by-side comparisons looking for patterns  
17 or major trends in them. And I mean, that  
18 would be work that was really up to date on  
19 what was happening and maybe would help us,  
20 you know, give another perspective on as Ted  
21 was calling kind of causal explanations.

22 We've talked some about, you know,

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1 do we just continue doing these draws of  
2 historical DRs or do we kind of switch them up  
3 and maybe it would be useful also for NIOSH as  
4 you're going to have these side-by-side  
5 comparisons. There's a lot of analysis that  
6 could be done from the final decision on  
7 whether it's compensable or not to any of the  
8 comparisons of data points along the decision-  
9 making process.

10 CHAIRMAN GRIFFON: Yes. And I  
11 mean, the other piece you mentioned was you  
12 pulled, what, five from the 12th set? I mean,  
13 that's a whole another initiative, right?  
14 That's separate.

15 DR. ULSH: Well yes, that was part  
16 of the 10-year review that we committed to do.  
17 We wanted to look at contemporary ones so we  
18 actually picked the five with the latest date  
19 from the 12th set and reviewed whether or not  
20 we agreed with the finding and whether or not  
21 we also considered a QA finding. I don't  
22 think that that initiative is part of an

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1 ongoing thing that we're going to do at least  
2 at this point.

3 MR. HINNEFELD: Well, I think we  
4 didn't commit to doing any more than that.  
5 Now, you could argue that the 10-year review  
6 doesn't expect a one-time look at that, but  
7 you should continue to do that. You know, it  
8 says if things continue to get through our  
9 what we consider QC process and are delivered  
10 with QC errors that that's something that  
11 could be continued. We kind of said -- before  
12 we commit to continuing it though, I'd like to  
13 know what we learned from the analysis and can  
14 we fix the things, is there something to fix  
15 about the process so that these things that we  
16 identify in this analysis wouldn't have, you  
17 know, don't occur anymore, rather than just  
18 say commit to continuing to do that. We can  
19 commit to doing every, you know, I don't know  
20 that I can do every good idea, we can't do  
21 every good idea that comes along. We just  
22 don't have the resources to do every good idea

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1 that comes along.

2 DR. ULSH: And the point in the  
3 process where we are with that particular  
4 initiative is like Stu said, ORAU delivered  
5 their analysis, I took a look at it and added  
6 my own, so now we have the judgment at least  
7 so far of whether or not we agree with the  
8 finding and whether or not we agree that it's  
9 a QA. The next step in the process then for  
10 those subset of issues where we say yes, you  
11 know what? This is a QA issue. The next step  
12 is why did that happen, the root cause  
13 analysis. We haven't done that.

14 CHAIRMAN GRIFFON: When you say  
15 you took the 12th set, the five latest or most  
16 recent cases, were they the five most recent  
17 that had QA/QC findings by SC&A or just the  
18 five most recent?

19 DR. ULSH: I think they were just  
20 the five.

21 MR. HINNEFELD: They were the five  
22 most recent because there had not -- see, this

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1 is from the 12th set. There has not been any  
2 analysis --

3 CHAIRMAN GRIFFON: Oh, there  
4 hasn't? Okay.

5 MR. HINNEFELD: -- of the  
6 findings. When SC&A writes a finding, I mean  
7 they sometimes will say it in there.

8 CHAIRMAN GRIFFON: Yes.

9 MR. HINNEFELD: They sometimes  
10 will say it, but I don't know -- all we did  
11 was let's look at the five most recent just  
12 for ease of selection.

13 CHAIRMAN GRIFFON: Because I mean  
14 part of the discussion. I mean, SC&A's on the  
15 15th set, I think, now. Have you finished the  
16 15th set?

17 MR. KATZ: No.

18 CHAIRMAN GRIFFON: They're working  
19 on the 15th set.

20 MR. HINNEFELD: And they've  
21 delivered the 13th in the interim since we  
22 pulled out of the 12th.

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1                   CHAIRMAN GRIFFON:  And we're, as a  
2                   Subcommittee here we're on the seventh, eighth  
3                   and ninth.  We're hopefully close to wrapping  
4                   up the seventh I think, but anyway, the  
5                   question was how can we get sort of ahead of  
6                   the curve a little bit, you know.  And one  
7                   notion that we were talking about, just  
8                   talking with Doug earlier, one notion was, you  
9                   know, is there any way to sort of look at the  
10                  SC&A ranked medium and high impact findings  
11                  and sort of do a triage process ahead.  But  
12                  then I think you could also, in doing that you  
13                  could lose sight of the littler ones which  
14                  could often fall into those QA/QC kind of  
15                  things, you know, like missed a year of dose,  
16                  didn't impact the case overall, you know.  So  
17                  I think we want to kind of balance that.

18                         I mean, but that was one idea was  
19                         to -- because we, as we talked about in the  
20                         last meeting we have the QA/QC and the  
21                         consistency/reproducibility question but we  
22                         also have the overall charge of this

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1 Subcommittee which is the dose reconstruction  
2 validity. So if there's bigger magnitude  
3 findings maybe we can high-prioritize those  
4 and then let SC&A summarize, give us summary  
5 tables of the QA/QC. If they're very similar  
6 to things we've seen before I think we want to  
7 tackle it on the broad level rather than just  
8 picking each one, you know, going down each  
9 matrix item, you know, and debating over one  
10 year's, you know, one year's missed record or  
11 whatever. I think it might be useful for us  
12 to see a summary from SC&A that says, you  
13 know, over the 10th, 11th, 12th, 13th, 14th  
14 matrices you know we found this many QA/QC  
15 findings, they fell into this, most of them  
16 were low, you know, whatever. And then we  
17 have six or eight cases overall where we found  
18 bigger findings that might fall into the  
19 scientific validity question which we think  
20 the Subcommittee should prioritize ahead, you  
21 know, so we can be working on QA/QC as an  
22 overall thing and then focus more on some of

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1 the technical issues and be more current with  
2 those I think is the hope. So I don't know if  
3 that makes sense.

4 DR. ULSH: Well, it does. My  
5 first thought on that, Mark, is just maybe a  
6 caution that at least taking those five as an  
7 example to the extent that you can generalize  
8 from that it's a mixture of cases, findings  
9 where we did agree with the finding and we did  
10 agree with the categorization of the QA, and  
11 then at the other end of the spectrum there's  
12 some where we didn't agree with the finding.

13 CHAIRMAN GRIFFON: Right, right,  
14 right.

15 DR. ULSH: So you can take the  
16 findings that SC&A has issued but at that  
17 point you won't have our responses to it,  
18 right? I mean, at some point you've got to  
19 get NIOSH's input whether we agree with the  
20 finding or we can explain it.

21 CHAIRMAN GRIFFON: Right.

22 DR. ULSH: So you've got to decide

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1 kind of where in the process to make that cut  
2 to say here's the issue.

3 CHAIRMAN GRIFFON: Where to do the  
4 triaging, yes, yes. That's a good point. I  
5 mean, part of the backlog I think is the  
6 Subcommittee itself but some of it's also on  
7 NIOSH's side because you're overwhelmed on SEC  
8 work and other, you know, obviously. So  
9 ideally it would be good to have all the NIOSH  
10 responses and then kind of, you know, pick out  
11 that way after we have all the responses, I  
12 agree. Just a thought.

13 DR. ULSH: You've also done the  
14 look back though for the first 100 cases where  
15 after all the dust has settled and we've come  
16 to an agreement about a disposition of a  
17 particular finding then you've gone back and  
18 said here are the ones that are QA issues. And  
19 I know that the concern there is that those  
20 are too old to be instructive now, but it  
21 could be a model perhaps that at some point  
22 once we all agree on a disposition of a

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1 finding then we take another look back and say  
2 these are the ones where everyone kind of  
3 agrees were QA issues.

4 CHAIRMAN GRIFFON: Yes. Yes. But  
5 the concern is getting up to this more current  
6 cases that were done.

7 DR. ULSH: And something -- you've  
8 got to take something away I guess.

9 CHAIRMAN GRIFFON: Right.

10 MR. KATZ: Just to add to this  
11 conversation, a little bit of a tangent but it  
12 relates to what David was saying. We're on  
13 the 15th set now at SC&A and you mentioned the  
14 distance between where the Subcommittee is on  
15 the sets and SC&A is. And David's suggestion  
16 that SC&A be looking at these blind cases  
17 alongside the Subcommittee. So I wonder if --  
18 I mean at some point it doesn't make sense to  
19 keep stretching out the difference in this  
20 progress and maybe we should at some point,  
21 whether it's the 15th set or the 16th set we  
22 should stop progressing with those sets and

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1 maybe do what David's suggesting, have SC&A  
2 focused on as you get these confined cases  
3 looking at those and preparing on those for  
4 when you have your meetings so that you can at  
5 least be doing that contemporaneous work.  
6 SC&A's not spending its time churning out new  
7 sets that are so far off really in terms of  
8 where the Subcommittee can get to.

9           Because I think Brant's right, I  
10 mean until we have some back and forth  
11 response, the Board Members have to do their  
12 part with the dose reconstruction and so on  
13 you really, you just have SC&A's initial  
14 perspective. You don't have their final  
15 perspective even on those later sets, what the  
16 issues are with those sets until it's gone  
17 through its normal process. I wonder, I think  
18 you should think about that at least. Changing  
19 this process going forward in terms of adding  
20 on these sets.

21           CHAIRMAN GRIFFON: No, I agree, it  
22 doesn't make too much sense to get much

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1 further ahead, I agree.

2 MR. FARVER: I suggest not cutting  
3 back completely but scaling back. Let's say  
4 we start scaling back on the 16th set or 17th  
5 set. Instead of 40 cases you knock it down to  
6 10 or something. And then I take the  
7 resources that I would use to do the other  
8 cases and put them doing the blind reviews. So  
9 while we're still moving forward on our DRs to  
10 take up anything big, and you might have to be  
11 more selective in your case selection. We're  
12 still looking at some to pick up issues but  
13 then we're also --

14 MR. KATZ: But the reality is,  
15 Doug, is that there's no action being taken on  
16 these late sets. I mean there's still --  
17 there's no mechanism for action. They sit on  
18 the shelf until they go through the process.  
19 I'm not seeing a lot of benefit to that. I  
20 mean, I don't think it's an equivalent  
21 transfer of SC&A resources to the blind  
22 because we're not asking you to do de novo

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1 blind dose reconstructions. I mean, DCAS is  
2 doing that. You don't want to duplicate that.  
3 Really what we want you to just use your  
4 technical eyes to sort of review that work,  
5 but it's not the same as actually you doing  
6 the dose reconstructions.

7 MR. FARVER: So we would just  
8 review their analysis of the --

9 MR. KATZ: And come to the table  
10 with the Subcommittee ready to discuss what  
11 you see there.

12 MR. FARVER: I misunderstood.

13 MR. KATZ: I think that's what  
14 David was suggesting.

15 MEMBER RICHARDSON: We need to  
16 look at them both side by side, figure out.

17 MR. KATZ: Right. So we have a  
18 fully productive Subcommittee discussion of  
19 those cases.

20 CHAIRMAN GRIFFON: I still wonder  
21 if we can triage at an earlier point. I don't  
22 think we have to come to complete resolution

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1 in our process on the Subcommittee in order to  
2 triage. I think if we got SC&A's findings and  
3 NIOSH did an initial review we can look at the  
4 matrix and then almost like our selection  
5 process we can go down and say, you know,  
6 finding 6, finding 10, finding 20 make sense  
7 to prioritize and we can vote as a  
8 Subcommittee and move those up in priorities.  
9 And then say the other ones seem to likely  
10 fall in the -- based on NIOSH's review and  
11 SC&A's even if there might be a slight dispute  
12 whether it's, you know, an accurate finding or  
13 not it seems to fall in the realm of QA/QC we  
14 can -- and everybody agrees it's a lower  
15 impact. Then we can kind of put that in that  
16 broader pot with the QA/QC question. Because  
17 I don't want to miss these other ones that,  
18 you know, and I think we're letting them sit  
19 on the shelf like you said. So I mean maybe  
20 that's a path forward to have SC&A, I mean  
21 they have their initial findings out to matrix  
22 14. If we can get NIOSH's responses, I think

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1 you've done, have you done matrix 10?

2 DR. ULSH: We haven't given you 10  
3 yet. We've given you some from 9.

4 CHAIRMAN GRIFFON: Right.

5 DR. ULSH: And that's about as far  
6 as we got.

7 MEMBER RICHARDSON: By triaging  
8 your -- think about it once more. SC&A's got  
9 a series of findings and they fall into  
10 different types of findings, and you're saying  
11 some of them we may want to --

12 CHAIRMAN GRIFFON: Some of them  
13 are, you know, I guess they're ranking them on  
14 case impact I think. So some of them may be  
15 from a program standpoint these QA things,  
16 they serve that up and they could be a  
17 problem. But from the case standpoint there  
18 may be some issues that end up being --

19 MR. FARVER: Lower consequence.

20 CHAIRMAN GRIFFON: Or I'm saying  
21 higher consequence. Those are the ones.

22 MR. KATZ: So you're basically

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1 saying just ignore the set boundaries for some  
2 of these high-priority matters, right? Isn't  
3 that what you're saying? Go up through 12,  
4 13, 17.

5 CHAIRMAN GRIFFON: We could be  
6 working on upwards from, yes, from 9 through  
7 13 or whatever and we'll --

8 MR. KATZ: And do them out of  
9 order --

10 CHAIRMAN GRIFFON: Out of order.

11 MR. KATZ: -- but on a theme  
12 basically and address them that way.

13 CHAIRMAN GRIFFON: Right.

14 MR. KATZ: And I think that'll  
15 work, we just have to be very organized so  
16 that we don't lose the rest for one, and also  
17 so that DCAS is supplied with the cases we  
18 want them to address first in an orderly  
19 fashion so they know what their returns,  
20 because they're not going to be able to double  
21 their volume of ones they're responding on.

22 DR. ULSH: And to be clear, I mean

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1 at least after the past couple of meetings of  
2 this Committee my instruction to ORAU has been  
3 focus specifically on the oldest claims. We  
4 need to get those off the deck. It hasn't had  
5 anything to do with QA or impact, it's how old  
6 is it. That's the only thing I've been  
7 screening on.

8 CHAIRMAN GRIFFON: Right.

9 DR. ULSH: So this would be a  
10 change.

11 MR. HINNEFELD: We change what we  
12 tell them all the time.

13 (Laughter.)

14 CHAIRMAN GRIFFON: Well, I mean I  
15 think at our next meeting maybe we can come  
16 forward and I think we need to try this out  
17 but if we have the 10th set, if we have  
18 NIOSH's responses for all the 9th and all the  
19 10th I don't know if that's --

20 MR. HINNEFELD: I don't think  
21 we've got all of 10. I don't know if we've  
22 got all nine. I don't know, I'd have to go

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1 see what we're talking about.

2 MR. FARVER: If you look at the  
3 matrix there is a column, I think it's column  
4 five, it says Site Program Rank. I think  
5 usually we leave it blank. We can always use  
6 that to prioritize.

7 CHAIRMAN GRIFFON: Yes. That's  
8 the one, the first 100 I was, the Committee  
9 was going through ranking those.

10 MEMBER RICHARDSON: The other  
11 option is with the first one is to sort of run  
12 these in parallel and continue forward through  
13 these sets of DR reviews just chronologically  
14 as we've been doing them and yet turn SC&A's  
15 attention moving forward more onto this kind  
16 of new duplicate estimate that's going on  
17 between ORAU and NIOSH. It's a question of  
18 are we going to introduce a lot of confusion  
19 by changing how we've been doing this.

20 CHAIRMAN GRIFFON: No, I think  
21 you're right, I think we've got to be very  
22 organized on how we convey this.

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1                   MEMBER CLAWSON:     I guess I'm a  
2     little bit confused on what exactly we're  
3     looking forward there.     We're looking at  
4     continuing on with pulling the reconstructions  
5     but take a section in time, say the ninth set  
6     and focus in on those and do a more in-depth  
7     look at the DR reconstructions?

8                   CHAIRMAN GRIFFON:   No, I think the  
9     idea would be -- my contention is that  
10    they're, and I think we found this, that  
11    they're not all simply QA/QC.  They don't fall  
12    into the QA/QC category.  So I'm saying, but a  
13    lot of them do I think as far as our findings.  
14    So I'm saying, you know, if we can prioritize  
15    some of those ones that might be, you know,  
16    more important from a validity standpoint,  
17    from a scientific validity standpoint.  In  
18    other words, if you're doing an internal dose  
19    reconstruction and SC&A has a very different,  
20    you know, perspective than what NIOSH came up  
21    with maybe that one wants to -- it's not a  
22    matter of they forgot a data point or didn't

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1 get a year's worth of dose, you know, it's the  
2 basic approach to how they model the internal  
3 dose that there's a disagreement on. You  
4 know, we might want to raise that.

5 DR. ULSH: I think you've got, and  
6 Doug can correct me if I'm wrong, but right  
7 now the way SC&A categorizes these findings is  
8 impact on this particular case, either it has  
9 a big impact or it doesn't. It's not  
10 necessarily how many cases it might affect.

11 CHAIRMAN GRIFFON: Right.

12 DR. ULSH: I mean, it could be a  
13 small change.

14 CHAIRMAN GRIFFON: Where we're  
15 using that other column that he was talking  
16 about where we tried to make a judgment of --

17 DR. ULSH: Yes.

18 CHAIRMAN GRIFFON: -- whether this  
19 was something I could carry through to a lot  
20 more cases.

21 MR. FARVER: And if you go back  
22 and look at those, I don't know, was it 100 or

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1 so findings and identify it as QA, that  
2 initial set, many of those are under the low  
3 category because it impacted the case but it  
4 would not -- I mean, it would not impact the  
5 case much whether you missed an annual dose,  
6 but it could impact the program.

7 MEMBER MUNN: It's a programmatic  
8 issue.

9 CHAIRMAN GRIFFON: Well, I think  
10 we're going to have to -- I mean, I certainly  
11 agree with the one perspective is having SC&A  
12 pick up on this new, these newly generated  
13 cases that NIOSH is going to review with their  
14 internal process. And we can run the other  
15 system parallel or we can try to pick off  
16 high-priority ones. I don't think we have to  
17 decide that today. If you have more, you  
18 know, as far as you get next time let's look  
19 at the ninth set and see if it makes sense if  
20 some jump out at us. And, again, you know, we  
21 have to be organized with it, but I think it's  
22 not that difficult to keep track of that, you

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1 know.

2 MR. KATZ: Well, we could, to tone  
3 down the sort of disruption we could do the  
4 two things we've just agreed on, process as it  
5 stands now and having SC&A look over, review  
6 the results from it. But then we could have  
7 SC&A just do some analytical work on the, you  
8 know, most current four sets or five sets and  
9 try to pick out, just bring to each meeting,  
10 you know, perhaps one category of issue they  
11 have that's sort of more thematic, in other  
12 words, systematic, science matter not a  
13 quality control matter necessarily, and bring  
14 that to the table just as a point of analysis  
15 that wouldn't have been the whole process but  
16 you could still have a discussion about the  
17 finding that they're proposing based on their  
18 analysis of those cases. So it would still  
19 sort of be bringing you to the future a bit  
20 but to kind of stay on a big issue without  
21 really disrupting the whole process. So you  
22 wouldn't be sending DCAS to have responses,

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1 you know, on a whole bunch of cases or what  
2 have you, but you'd have this one theme, issue  
3 that you would be bringing to the next  
4 Subcommittee meeting and they'd, you know,  
5 have to have a chance to do their homework on  
6 that, but it wouldn't be the same thing as  
7 upsetting the whole apple cart in terms of  
8 reviewing cases.

9 CHAIRMAN GRIFFON: Identify their  
10 theme issue by looking at their most recent --

11 MR. KATZ: Four sets or whatever  
12 and seeing what it might be. And maybe they  
13 pick out six or seven illustrative cases.

14 CHAIRMAN GRIFFON: Yes.

15 MR. KATZ: And provide that to  
16 DCAS along with their concerns about what they  
17 think is sort of more a systematic problem.

18 CHAIRMAN GRIFFON: That's sort of  
19 another way to get at the same thing.

20 MR. KATZ: You wouldn't be  
21 upsetting, you know, just a small sample to  
22 illustrate their concern but it would be

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1 bringing you up. Plus you'd be getting then  
2 something of sort of broader importance and  
3 bringing you up to current times as well,  
4 both. You'd be getting both of those out of  
5 this.

6 CHAIRMAN GRIFFON: There might be  
7 another way to get at the same end point quite  
8 frankly because what I was thinking on my  
9 high-priority ones, I mean, if you look at the  
10 matrices from the past most times the medium-  
11 and high-ranked findings are a handful and a  
12 lot of them fall into low, you know. So I  
13 think look amongst those, if there's themes,  
14 then --

15 MR. KATZ: Yes.

16 MR. FARVER: For example, I went  
17 back and looked at the 10th set, and there was  
18 one high and three mediums.

19 CHAIRMAN GRIFFON: Right.

20 MR. FARVER: In the 10th set out  
21 of 30-some findings.

22 CHAIRMAN GRIFFON: And we don't

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1 even know, is that four cases or four, you're  
2 not sure of that, right?

3 MR. FARVER: I just did a quick --

4 CHAIRMAN GRIFFON: It might even  
5 be two cases, you know, whatever.

6 MR. FARVER: But I can go back and  
7 look at the say top four sets. Like for the  
8 next meeting it would be 14, 13, 12, 11th set,  
9 and then pull out we'll say top 10 issues or  
10 something like that.

11 MR. KATZ: Well, I wouldn't cover  
12 the whole tray of them. I would really try to  
13 come with --

14 CHAIRMAN GRIFFON: Look at your  
15 higher ranked ones and see if they fall into  
16 certain themes.

17 MR. FARVER: I mean, I'm fine  
18 doing that but I probably wouldn't do any more  
19 than that.

20 MR. KATZ: I was just thinking one  
21 or two really, actually. Here's a theme, we  
22 have five or six cases among these sets and

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1 this, we think there's something to this in  
2 terms of science, validity.

3 MEMBER MUNN: My concern would be  
4 that in a sampling that small you, it would be  
5 very difficult to identify a theme unless we  
6 had a major problem of some kind which we have  
7 not seen.

8 MR. FARVER: With searching like  
9 that what you're probably going to find is  
10 something that's extremely case-specific. You  
11 know, it makes a big difference for this case  
12 where the employee worked, type of deal, but  
13 it's not going to affect -- that's not a  
14 programmatic error.

15 CHAIRMAN GRIFFON: Well, that has  
16 been a theme. We noticed that theme on  
17 neutron dose reconstructions, employee  
18 placement, it's always been an issue. I mean,  
19 it's been a discussion around this table. On  
20 Y-12, I can remember a number, Savannah River,  
21 you know.

22 MR. FARVER: My feeling is the top

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1 issues that I look at are going to be, that  
2 would have the most effect on a case are going  
3 to be very case-specific.

4 MR. KATZ: Right, I follow you.

5 DR. ULSH: So some of the more  
6 generalized that if it's a large number are  
7 going to be those lower.

8 MEMBER CLAWSON: So do we want you  
9 to focus on -- this is my question. Are we  
10 wanting you then to look at the findings and  
11 not case-specific or if they are, you know, it  
12 doesn't matter, that part doesn't matter. But  
13 programmatically will that affect. We want  
14 you to --

15 MR. FARVER: If we happen to find  
16 two big issues that are similar, or two cases  
17 that have the same issue you could group them.  
18 But --

19 CHAIRMAN GRIFFON: Well, the other  
20 judgment that can be made is that, you know,  
21 for example with the Y-12, you know, just to  
22 use that example, placement of employees

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1 regarding neutron dose. You could argue that  
2 that could have a larger impact than on one  
3 case, right?

4 MR. FARVER: It could. I think in  
5 general we know that that's an issue and we  
6 know that the one at Savannah River, same type  
7 deal. Neutron dose.

8 CHAIRMAN GRIFFON: So there's one  
9 theme right there.

10 MEMBER MUNN: But that's an  
11 insoluble theme.

12 MR. FARVER: Correct.

13 MEMBER MUNN: That's an insoluble  
14 theme about which we can do nothing. And with  
15 respect to the QA and QC aspects of it.

16 CHAIRMAN GRIFFON: Well, that's  
17 not a QA/QC issue I don't think.

18 MEMBER MUNN: No, it isn't. It's  
19 a scientific issue.

20 CHAIRMAN GRIFFON: Right.

21 MEMBER MUNN: But my point is it's  
22 a case of which we can do nothing. You know,

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1 if there's an adequate amount of information  
2 to identify where the person worked then the  
3 issue doesn't arise.

4 CHAIRMAN GRIFFON: Right. And if  
5 there's an inadequate amount then what? That's  
6 the question.

7 MEMBER MUNN: Then it's insoluble.

8 CHAIRMAN GRIFFON: Why? Why, if -  
9 - I mean we could have that discussion. If  
10 the program is supposed to be claimant-  
11 favorable if you can't place an employee does  
12 NIOSH make a claimant-favorable assumption  
13 assuming they were in an area where they could  
14 have got exposed to neutrons.

15 MEMBER MUNN: Well, isn't that a  
16 policy that's already established pretty much?

17 DR. ULSH: Well, that's the  
18 procedure. We have discussions about, a lot  
19 of discussions about should we have done  
20 something differently.

21 MR. HINNEFELD: The question that  
22 comes to the level of evidence should be

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1 required to make the decision. That's all of  
2 our discussions have always been what level of  
3 evidence and so there could be some advice on  
4 that. I'm not arguing, I don't want to argue  
5 one side or the other, but I don't know that  
6 it's clearly cut and dry, Wanda, the way  
7 you're saying. I think that there's room for  
8 discussion about the level of evidence that is  
9 sufficient to make a judgment that we do now  
10 know that where this person worked.

11 MR. KATZ: John, are you on the  
12 phone? Mauro?

13 DR. MAURO: Yes. I was going to  
14 step in a little bit. I have some thoughts on  
15 this too, if I may?

16 CHAIRMAN GRIFFON: Please step in.

17 DR. MAURO: It seems to me that  
18 right now sitting around the table we probably  
19 could -- you already started this -- identify  
20 what are the categories of findings at least  
21 that SC&A has made that fall within the realm  
22 of let's say recurring scientific, not quality

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1 assurance. In other words your procedures  
2 were out there and we reviewed the case  
3 against the Site Profile, against your  
4 procedures, and basically we see if you're  
5 following your procedures. The real issue,  
6 and I think you've started it, is for example  
7 placing a person. That would be like one  
8 major area. Did they, was the proper judgment  
9 made regarding placing a person physically at  
10 a location.

11 The second thing right off the bat  
12 that strikes me is, and you mentioned it also,  
13 is okay, given that the person was properly  
14 placed physically at a given facility did they  
15 take into consideration all of the exposure  
16 scenarios including neutron dose, thorium, et  
17 cetera is the second one. That's like tier  
18 two.

19 And then the third one is given  
20 that we placed them correctly and given that  
21 yes, we did assign them some neutron dose, the  
22 third tier is the coworker model that's

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1 assigned to this person. That is, we assumed,  
2 we assigned the 50th percentile or the full  
3 distribution or the 95th percentile. So it  
4 seems to me in a funny sort of way we actually  
5 are at a place right now where at least right  
6 off the bat just from the conversation we're  
7 having now there are these three levels which  
8 are nested that we already can identify as  
9 fundamental conceptual technical issues where  
10 SC&A and NIOSH have had discussions regarding  
11 any of the recurring findings and from the  
12 point of view of let's say the 10-year plan  
13 one could ask the question what rigor can be  
14 brought, if any, to these judgments that would  
15 help alleviate, if in fact there are issues  
16 here, and what metrics can be used to judge  
17 progress in improving it.

18 So in a way, I mean right off the  
19 bat those three seem to be, now there may be  
20 others, but I'm trying, while we were talking  
21 I was trying hard to think of other categories  
22 of technical issues that are sort of

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1 crosscutting that are really the big effects,  
2 not the quality assurance issues, but you  
3 know. And also not comments on the Site  
4 Profile. For example, there are plenty of  
5 comments that are under debate on the Site  
6 Profiles and on the procedures and that's  
7 being dealt with elsewhere, but this is given  
8 the Site Profile, given the procedure these  
9 are where judgments are made. And I think  
10 this is where we find fundamental, you know,  
11 this is those three areas. I really can't  
12 think of others.

13 CHAIRMAN GRIFFON: I'm trying to  
14 think. The only other one that I was thinking  
15 of, John, was on the internal dose side, the  
16 individual internal dose, you know, the  
17 assumptions made in that. That might be a  
18 more case-specific.

19 DR. MAURO: So given that you  
20 place them correctly, okay, given that you've  
21 got the scenario down, given that you picked  
22 the proper coworker model for the person but

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1 you're saying no. What about the person that  
2 you're not using the coworker model but you  
3 actually have the data for? What are the  
4 types of findings we have when that's done?  
5 I've got to say usually those are QA as  
6 opposed to fundamental science issues. Once  
7 you're actually using the real data for the  
8 person.

9 CHAIRMAN GRIFFON: Yes, yes, yes.  
10 Yes, I know we've had some questions on  
11 assumptions on intake. You know, the  
12 assumptions that were made in the internal  
13 dose modeling but they tended to be probably  
14 mostly case-specific, would you say that? Yes.

15 DR. MAURO: Anyway, I offer that  
16 up --

17 CHAIRMAN GRIFFON: The three you  
18 mentioned I agree with, yes.

19 DR. MAURO: Yes, we are well along  
20 in a position to actually start identifying,  
21 you know, strategies and maybe actually  
22 discussing what -- are there metrics that can

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1 be used in the sampling that you're talking  
2 about that look for that and say did we do  
3 this, you know, has it happened. But of  
4 course, again, that's a judgment. You know,  
5 when you pick the full distribution versus  
6 when you pick the upper 95th percentile, and  
7 we always find ourselves in that position,  
8 it's a recurring theme.

9 CHAIRMAN GRIFFON: Right. But  
10 those are the, Doug, I don't want to put you  
11 on the spot, but do you have anything to add  
12 to that? Because I agree with those three as  
13 sort of themes we've seen.

14 MR. FARVER: -- on the findings  
15 and see if there's anything that --

16 CHAIRMAN GRIFFON: I think that  
17 might be a good action for the next meeting  
18 too for you to look at it more systematically,  
19 look at your last, up through matrix 14 and  
20 look for these kind of --

21 MR. KATZ: Case examples.

22 CHAIRMAN GRIFFON: Right. And

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1 themes and cases that fit into those themes.

2 MR. KATZ: Yes, and have a little  
3 report for that?

4 CHAIRMAN GRIFFON: Yes, yes, a  
5 mini report.

6 MR. FARVER: Non-QA items?

7 CHAIRMAN GRIFFON: Non-QA I would  
8 say, yes.

9 MR. FARVER: Okay.

10 CHAIRMAN GRIFFON: All right.

11 MR. KATZ: It's just a, a  
12 discussion report, whatever you want to call  
13 it.

14 CHAIRMAN GRIFFON: Right. What  
15 John defined as scientific, recurring  
16 scientific issues.

17 DR. ULSH: So in terms -- I know  
18 that this could change once we revisit this  
19 but going out of this meeting going forward I  
20 want to make sure that the priorities that I  
21 give to ORAU align with the Subcommittee's  
22 priorities. I'm still planning to tell them

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1 focus on things up through and including maybe  
2 the ninth set.

3 CHAIRMAN GRIFFON: Yes, I think  
4 let's stick with the parallel processing like  
5 David described. And we don't have the other  
6 input from you guys yet so SC&A won't be  
7 reviewing, but once you have a group of those  
8 cases then --

9 MR. KATZ: You'll provide them to  
10 SC&A as well.

11 CHAIRMAN GRIFFON: Right.

12 DR. ULSH: Oh, the blind?

13 MR. KATZ: Yes.

14 CHAIRMAN GRIFFON: The blind.

15 MR. KATZ: Once you have those  
16 sets. You'll funnel those to the Subcommittee  
17 --

18 CHAIRMAN GRIFFON: Whatever you  
19 feel is a good, you know, I don't know if it's  
20 six, eight, whatever, you know.

21 MR. KATZ: Yes.

22 CHAIRMAN GRIFFON: I wouldn't wait

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1 till you have 50.

2 MR. KATZ: Yes. So John and John,  
3 you folks would be tasked with just reviewing  
4 those blind cases, reviewing the review from  
5 DCAS in effect, and coming to the table ready  
6 to discuss what's there.

7 CHAIRMAN GRIFFON: Okay. Why  
8 don't we -- I need a coffee break here so why  
9 don't we take, or Wanda, do you have something  
10 before we break?

11 MEMBER MUNN: No.

12 CHAIRMAN GRIFFON: Why don't we  
13 take 10 minutes break and then we'll come back  
14 and maybe wrap this discussion up and then  
15 move more into some of the matrices. I'm not  
16 sure how much progress we have on past matrix  
17 items so --

18 DR. ULSH: Well, I think there was  
19 -- we delivered quite a large amount back in  
20 April, and I think SC&A, I don't know, I don't  
21 know what they've got on their report today,  
22 but.

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1                   CHAIRMAN GRIFFON:   So we have some  
2                   on the table for discussion.

3                   DR. ULSH:     I think so, and then  
4                   we've got just a couple more from the seventh  
5                   and eighth sets, just a couple.

6                   CHAIRMAN GRIFFON:   Okay.

7                   MR. KATZ:     Okay, so about 10:35,  
8                   we'll --

9                   CHAIRMAN GRIFFON:   Reconvene.

10                  (Whereupon, the foregoing matter  
11                  went off the record at 10:24 a.m. and went  
12                  back on the record at 10:44 a.m.)

13                  MR. KATZ:     Okay, so we're back  
14                  online.    Let me just check before we get  
15                  started, do I have any additional Board  
16                  Members on the line?   Mike or John Poston?  
17                  Okay.

18                  CHAIRMAN GRIFFON:   Okay.    I'll  
19                  make an attempt at summarizing where we're at  
20                  from the morning discussion and then a few  
21                  more items on this theme, and then we'll go  
22                  into the matrices I think.   I think the plan,

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1 the path forward right now is to have a sort  
2 of parallel process with the matrix, the  
3 findings in the matrices and basically from  
4 the oldest to the newest as we've been doing  
5 and then to have NIOSH in their newly  
6 implemented process of selecting two cases and  
7 randomly doing the dose reconstruction along  
8 with ORAU, have NIOSH provide sort of interim  
9 reports on that to SC&A, and SC&A will review  
10 those, what NIOSH has done, what ORAU's done  
11 and NIOSH's sort of analysis of the issue.  
12 SC&A will review that report and come back to  
13 this committee to be prepared to discuss it.  
14 So those things will be sort of parallel  
15 tracks.

16 The other action that we've asked  
17 for is for SC&A to look at, I guess, the 10th  
18 or 9th, whatever is outstanding, 9th through  
19 the 14th.

20 MR. FARVER: Well, it'll probably  
21 be the 11th and the 14th will be done by then.

22 CHAIRMAN GRIFFON: Okay.

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1                   MR. FARVER:    It should be -- it's  
2                   at least the 11th through the 13th, but  
3                   probably through the 14th.

4                   CHAIRMAN GRIFFON:       All right.  
5                   Let's say 11th through the 14th set of cases  
6                   and look for these sort of scientific issues  
7                   and try to bin them into certain themes, bring  
8                   them back to the Subcommittee and then we can  
9                   decide if we want to try to tackle all of them  
10                  or certain ones.    So you identify the themes  
11                  and then try to also tell us which cases or  
12                  findings belong in those themes, you know.  
13                  That way we can get a sense of the breadth of  
14                  what we're trying to tackle.

15                  And we haven't completely decided  
16                  on whether to go down that path.    We've all  
17                  discussed the potential pitfalls of tracking  
18                  that because we'd be doing things a little bit  
19                  out of order if we decide to go that path.  
20                  But at least let SC&A take a look at it, bring  
21                  it back to us and we can talk about it at the  
22                  next meeting to see if it makes sense to move

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1 in that direction. And that's sort of where  
2 we're at.

3 MEMBER RICHARDSON: I was  
4 wondering if at the next meeting -- there were  
5 two other things that were raised, and I think  
6 they would just be asks for information if  
7 NIOSH could share with us. One is the report  
8 on the five most recent cases drawn from the  
9 12th set.

10 CHAIRMAN GRIFFON: Thank you, yes.

11 MEMBER RICHARDSON: And to give us  
12 a summary, whatever is available at the time  
13 that could be shared with -- about that  
14 review. And the other one is the suggestion  
15 that NIOSH would follow up with ORAU about  
16 their QA/QC process and if they learned more  
17 about that from conversation, if that could be  
18 shared with us.

19 CHAIRMAN GRIFFON: Yes, just a  
20 report on that and sort of what they currently  
21 are doing.

22 MEMBER RICHARDSON: What they have

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1 in place.

2 CHAIRMAN GRIFFON: Yes, what they  
3 have in place. And if that includes documents  
4 that would be great. I mean, if there's  
5 procedures or other things that we haven't  
6 seen, you know. Yes, thanks.

7 So I think that's where we stand.  
8 Brad, does that make it muddier than ever or  
9 clarify it a little?

10 MEMBER CLAWSON: We'll work into  
11 that.

12 CHAIRMAN GRIFFON: Alright.

13 MEMBER CLAWSON: I just want to  
14 make sure we're, that I had an understanding.  
15 Because part of my issue was, and we've talked  
16 earlier, is we've been looking at these  
17 earlier cases and many times they say they've  
18 corrected this QA problem. I just want to  
19 make sure that we take the latest that we have  
20 and kind of hold them in time there and do a  
21 more in-depth.

22 CHAIRMAN GRIFFON: Right. And

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1 part of these blind reviews by NIOSH we're  
2 hoping will get to that end, yes. Okay. The  
3 other thing, before we move on to the matrices  
4 I just wanted to bring up from the last Board  
5 Meeting we said that, or I think our Chair has  
6 assigned follow-up to different committees  
7 from the 10-year review on some of the action  
8 items that NIOSH has proposed. And, Stu, I  
9 think you said four fall in, were sort of  
10 assigned to this Subcommittee?

11 MR. HINNEFELD: Right, four areas.

12 CHAIRMAN GRIFFON: And I just  
13 wondered just for the record if we can get  
14 them on there. And we'll pick up our  
15 discussion with them at the next meeting but.

16 MR. HINNEFELD: One is what we've  
17 been talking about with the dose  
18 reconstruction quality.

19 CHAIRMAN GRIFFON: Right.

20 MR. HINNEFELD: And continue to  
21 work on that. The second one was consider the  
22 elimination of overestimating approaches. The

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1 third is to quantify the amount or the extent  
2 of claimant-favorability in the current  
3 program approaches, the methods we use now.  
4 And the fourth is to continue to be aggressive  
5 in terms of timeliness objectives for dose  
6 reconstruction. So the last one I said, you  
7 know, we feel like we kind of have that in  
8 hand having finished up the backlog, getting  
9 things out within nine months and applying, we  
10 have a mechanism, a working mechanism in the  
11 contract to incentivize timely completion of  
12 dose reconstruction. We've been doing that  
13 for awhile. We think that is, we kind of have  
14 a handle on that, but certainly the Committee  
15 can be as involved as it wants to be. So  
16 those were the four areas.

17 CHAIRMAN GRIFFON: Okay. And I  
18 think, you know, we'll, I guess we'll bring  
19 those up on the agenda moving forward as they  
20 make sense to bring them up. I mean, I think  
21 that last one might at first blush involve  
22 NIOSH just sort of presenting what you're

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1 doing, where you stand and you know.

2 MR. HINNEFELD: We've done, on the  
3 thought process about eliminating  
4 overestimates we have done some, we do have  
5 some cost estimates on that. It's pretty  
6 expensive if we eliminated them entirely,  
7 really expensive. But we are pursuing though  
8 a partial measure that we don't think is going  
9 to cost very much, at least not cost us very  
10 much and that is to -- we have a series of DOE  
11 sites who don't provide medical X-ray  
12 information routinely as part of the exposure  
13 history request. But if we ask for it later  
14 on as a supplemental request then they can  
15 provide it. So that puts us in the position  
16 of usually at those sites of doing essentially  
17 an overestimated medical estimate just based  
18 on annual PA exam. And then when you get into  
19 the band close to the decision point then  
20 we'll ask the site for the actual X-ray  
21 information, or if we get a rework for  
22 instance we may ask the site.

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1           So just for timeliness I said  
2 well, why don't we approach these sites. We're  
3 going to actually approach DOE headquarters so  
4 we can approach them all essentially together  
5 and see if we can't, since they have the  
6 records of X-ray exposure how about just  
7 providing them routinely when you get a  
8 request for exposure history. That way it  
9 eliminates that supplemental request later on,  
10 and it eliminates the temptation to do an  
11 overestimating approach because you've got the  
12 actual X-ray records in front of you. And you  
13 just stop doing overestimates on X-rays from  
14 those sites.

15           DR. MAURO: Stu, this is John.

16           MR. HINNEFELD: Yes.

17           DR. MAURO: During -- I know we  
18 don't want to deal with this in detail, but  
19 during the meeting when you addressed the  
20 subject you also brought up an idea. Because  
21 we all recognize the advantages of the  
22 bounding approach which is certainly

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1 compatible and consistent with the regulations  
2 to try to move through the process quickly.  
3 You had mentioned something that the dilemma  
4 you run into is that the second cancer comes  
5 up and then, you know, you go to a realistic,  
6 a more realistic analysis.

7           You pointed out something that  
8 struck me was that you see this mostly with  
9 skin cancer. That is, you find yourself, the  
10 ones that you come back later and have a  
11 second cancer that then you have to go back  
12 and redo it is skin cancer. Did I hear that  
13 correctly? Because that might, you know, that  
14 might be a compromise, that is limit the  
15 realistic analyses to the skin cancers as one  
16 of the recurring ones. Is that what you --  
17 you said that very quickly during the meeting,  
18 and it hit me really hard. I think that's  
19 something worthy of discussion perhaps at the  
20 next meeting.

21           MR. HINNEFELD: It certainly would  
22 be something we can talk about. It is a fact

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1 that skin cancers are often recurrent. You  
2 get additional skin cancers and we get those  
3 back. They are certainly well -- it's a big  
4 portion of our returns, I don't know if it's a  
5 majority. I'm just, and this is sort of  
6 anecdotally reported. I haven't run the  
7 statistics. But it becomes a matter, John, of  
8 balancing the cost against what -- and since  
9 we have to spend, if we spend then, how much  
10 cost do we want to spend on doing skin cancers  
11 all best estimate, and when we spend that  
12 money doing those then we don't have that  
13 money to do something else. And so is it more  
14 important programmatically to eliminate these  
15 overestimate. We aren't going to eliminate  
16 the reworks, we're just going to eliminate the  
17 confusion that arises by putting out an  
18 accelerated, you know, overestimate and then  
19 later on doing a best estimate. So is that  
20 worth whatever work has to fall off the table  
21 because we're spending more money doing only  
22 best estimates?

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1 DR. MAURO: But the idea that you  
2 put forward was this is one way to constrain  
3 the number of realistic estimates that you  
4 might do, rather than completely abandon.

5 MR. HINNEFELD: Well, we've looked  
6 at several varieties. We've looked at only do  
7 best estimates because sometimes we have  
8 serial returns, you know, reworks. You know,  
9 we'll work it again and then it'll come back  
10 again. And so if, you know, we've looked at  
11 well, what happens if the first time we get a  
12 rework we're doing best estimates. You know,  
13 all the overestimate approaches are out --

14 DR. MAURO: Oh, okay.

15 MR. HINNEFELD: So we've looked at  
16 that. We've looked at doing all skin cancers  
17 as best estimates. So there are a number of  
18 things that we've looked at in this one  
19 report, and I don't know that there's any  
20 reason why I can't share that. It's a cost  
21 analysis of those various steps. Okay.

22 CHAIRMAN GRIFFON: And if you have

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1 something, I mean, preceding our meetings if  
2 you have something that you want to add to the  
3 agenda that you have enough there for us to  
4 discuss I think, you know, providing it in  
5 writing and letting us mull over it a little  
6 bit before the meeting would be good.

7 MR. KATZ: Okay, so are you going  
8 to be sharing that?

9 MR. HINNEFELD: Yes, unless  
10 somebody tells me I can't. I don't know who  
11 would tell me. Jenny hasn't said anything to  
12 tell me I can't. I don't know who else would.

13 MR. KATZ: You could just leave  
14 the cost information out.

15 MR. HINNEFELD: Well, that's kind  
16 of the key. That's why we had them do it. So  
17 what's it cost to do this.

18 MR. KATZ: Right.

19 MR. HINNEFELD: That was our  
20 question. What would it cost to do this.

21 MR. KATZ: You may need to speak  
22 with your contract officer about that, about

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1 releasing the cost information. Because there  
2 is a proprietary aspect to that.

3 MR. HINNEFELD: Because it -- yes.  
4 There's a manpower number in there, too.

5 MR. KATZ: Yes.

6 MR. HINNEFELD: If I took out the  
7 cost but left the manpower in that would work.

8 MR. KATZ: And I think it's  
9 partially up to your contractor what they are  
10 comfortable --

11 MR. HINNEFELD: Sharing.

12 MR. KATZ: -- putting on the  
13 table.

14 MR. HINNEFELD: Okay, so I may  
15 not, I may not be free to share it.

16 MR. KATZ: You just have to look  
17 into that.

18 MR. HINNEFELD: Okay.

19 MS. LIN: Maybe we can look at it  
20 in draft form.

21 MR. KATZ: So with these I just  
22 want to be clear what, for the next meeting

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1 you would like to hear something about the  
2 current status of timeliness?

3 CHAIRMAN GRIFFON: Well, I'm just  
4 not sure.

5 MR. KATZ: No, I'm just -- of  
6 these various things. Timeliness you'd like  
7 to sort of see what the landscape looks like  
8 right now, is that correct? As part of a  
9 presentation.

10 CHAIRMAN GRIFFON: Well, let me  
11 ask what NIOSH thinks they're most prepared to  
12 sort of discuss. I mean, it sounded like  
13 timeliness was reasonable to -- you could  
14 provide it in a timely manner.

15 MR. HINNEFELD: Yes, we can run  
16 those statistics prior to the meeting. We can  
17 always pick some cutoff date, we'll say cases  
18 delivered in the last month or the last two  
19 months, here's the average age and if we get  
20 some aberration. One thing that happens once  
21 in awhile is you'll clear out some really old  
22 ones, you know, like that's likely what will

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1 happen with Clarksville and Medina just  
2 speaking among friends. That's what will  
3 happen with that. Now, that's not a ton of  
4 them but they're going to be pretty old and so  
5 it kind of screws up your average when you do  
6 something like that so you've kind of got to  
7 footnote things like the average age of cases  
8 but we should be able to come up with  
9 something that kind of indicates how we're  
10 doing on timeliness just as a routine matter.  
11 Get it out to the Board or to the Subcommittee  
12 before a meeting.

13 CHAIRMAN GRIFFON: And the other,  
14 I mean the consideration of overestimating, if  
15 you can provide this report you talked about.  
16 I mean if that's possible.

17 MR. HINNEFELD: I will have to  
18 work with the contractor to see what, or in  
19 what form. You know, if we take out some fee  
20 information we may be able to --

21 CHAIRMAN GRIFFON: And that last  
22 one, we're obviously going to continue our

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1 discussion on the QA issues, but the other one  
2 I'm not sure how far along.

3 MR. HINNEFELD: We're not far  
4 along at all.

5 CHAIRMAN GRIFFON: Quantify.

6 MR. HINNEFELD: We are  
7 conceptualized.

8 CHAIRMAN GRIFFON: Right, right,  
9 right.

10 MR. HINNEFELD: That's actually,  
11 Jim Neton is leading the plan on that.

12 CHAIRMAN GRIFFON: Okay.

13 MR. KATZ: Is that claimant-  
14 favorability you're talking about?

15 MR. HINNEFELD: Yes.

16 CHAIRMAN GRIFFON: Quantify the  
17 degree of it.

18 MR. KATZ: Right.

19 MR. HINNEFELD: Jim has a plan, he  
20 has visualized something that he hopes to do  
21 but that's from the sciences issues part of  
22 the program review. And so, and he's, along

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1 with several other things that are in that  
2 group. So I'm not exactly sure when we'll  
3 have something on that. I wouldn't expect it  
4 at the next meeting.

5 CHAIRMAN GRIFFON: Alright, yes,  
6 so it sounds like we'll have updates at least  
7 on two of those other items.

8 MR. HINNEFELD: Yes, we should  
9 have them.

10 CHAIRMAN GRIFFON: So we'll put on  
11 the agenda for next time. Anything more on  
12 that? Because I think we can move on to the  
13 matrix work and push through as much of this  
14 as we can get through. Somebody just dialed  
15 out, right? Good timing.

16 MR. HINNEFELD: That was my brain.

17 (Laughter.)

18 CHAIRMAN GRIFFON: The seventh set  
19 I have, and I had emailed it I think the day  
20 of the meeting last time, July 15th. So I  
21 think I have the most recent, at least, you  
22 know, that we finished as of July. It won't

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1 include SC&A's or NIOSH's latest inputs but  
2 this is where we left off I believe. And I  
3 think, well open items. I mean, I think 121.1  
4 the first one was still.

5 DR. ULSH: This is an Aliquippa  
6 Forge case. Scott, do you want to maybe just  
7 give a brief summary of what the issue was and  
8 then I'll jump in with status?

9 MR. SIEBERT: That was me that  
10 actually clicked out. Actually, Mutty, do you  
11 think you might be able to do -- tell us a  
12 little bit more straightforward that I  
13 probably can since this is Aliquippa? Sorry,  
14 we're going to throw the ball around a little  
15 here.

16 MR. SHARFI: I mean, right now the  
17 only thing --

18 DR. ULSH: Well, how about I  
19 rescue you guys a little bit. We're at the  
20 stage in the seventh set where the remaining  
21 issues, there aren't many but they're the  
22 really tough nuts to crack so they're very

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1 resource-intensive. I went back and looked at  
2 the discussion that we had at the last  
3 meeting, looked at the transcripts, just to  
4 try to get a feel for the issues. I mean,  
5 this is one of those really old ones that goes  
6 back to even before I was involved with this  
7 Subcommittee.

8           The bottom line is I think it has  
9 to do with residual contamination, external  
10 dose, how we calculated it during that time  
11 period unless I'm confusing it. And basically  
12 I looked at the Aliquippa TBD, the latest  
13 revision of it, and it was dated back in 2005.  
14 So it hasn't been touched since then. Given  
15 the Working Group, or the Subcommittee's  
16 concern about this particular issue in  
17 Aliquippa I asked ORAU to pick up that TBD  
18 again and bring it up to the contemporary way  
19 that we do things, not just limited to this  
20 particular issue but as long as we're going to  
21 be reexamining it anyway to make sure that all  
22 the pieces are up to contemporary standards.

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1 So I think that once that happens that will  
2 address this issue.

3 MR. HINNEFELD: Now, this was one  
4 where we had, it was like the mini-TBD review  
5 on this one, is that right? So there's a set  
6 of findings at the back of the report, right?  
7 Isn't that right, John?

8 DR. MAURO: Not Aliquippa.

9 MR. HINNEFELD: Not Aliquippa?  
10 Does that start later?

11 DR. MAURO: No, Aliquippa was not  
12 one of the three.

13 MR. HINNEFELD: Okay. So that  
14 must start the eighth set then.

15 DR. MAURO: I'm looking at, you're  
16 talking 121.1?

17 MR. HINNEFELD: Yes.

18 DR. MAURO: And I'm looking at  
19 this. It seems to me as I'm looking at it a  
20 lot of it was the old OTIB-70 issues and,  
21 OTIB-70 and TIB-6000 all of which have been  
22 resolved. I'm not in specifics, there may be

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1 aspects to this --

2 MR. HINNEFELD: John, I think that  
3 kind of falls into what Brant was saying is  
4 that the Site Profile for Aliquippa Forge was  
5 written before any of those things.

6 DR. MAURO: Yes.

7 MR. HINNEFELD: And so what our  
8 activity now is, let's go back and look at the  
9 Site Profile for Aliquippa Forge to make sure  
10 it incorporates the technical decisions we've  
11 come to in the last six years. Put those in  
12 the Site Profile. Once you do that then you  
13 evaluate all the claims that were done at  
14 Aliquippa Forge to see if anything's going to  
15 change. If anything changes then we let, you  
16 know, well we know we evaluated it anyway, but  
17 if anything changes we can reopen it, open it  
18 back up. So that I would think would, I don't  
19 know any other findings on this Aliquippa  
20 Forge case that didn't fall into that kind of  
21 category.

22 DR. MAURO: I see one.

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1                   MR. HINNEFELD:    Is that the one  
2                   about the 95th percent versus 50th percent,  
3                   John?

4                   DR. MAURO:        The 20 film badges,  
5                   yes.

6                   MR. HINNEFELD:    Yes.

7                   DR. MAURO:        It goes to that,  
8                   exactly right.

9                   MR. HINNEFELD:    Okay.

10                  DR. MAURO:        And that's separate  
11                  from the OTIB-70, TBD-6000 issue.  It really  
12                  has to do with this particular worker and  
13                  where he physically was located.  This is one  
14                  of those first items I mentioned earlier, you  
15                  know, and it does the default approach, the  
16                  judgment made.  This would be an example of  
17                  where you place the person and as a result of  
18                  that where you assigned the coworker, the  
19                  model, whether you use the full distribution  
20                  or the upper end.  So it goes toward that.  And  
21                  therein lies a judgment call that -- so I  
22                  think that's, I'm looking at this right now on

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1 the screen and that's the only thing that  
2 struck me as something that is specific to  
3 this case.

4 MR. HINNEFELD: Yes, John, I think  
5 that what will happen in the rewrite of the  
6 Site Profile is that will be clearly laid out  
7 that either you're going to have this  
8 bifurcated case where job category puts these  
9 people at 95th percent and these people at 50  
10 percent, or full distribution, or you're going  
11 to say to make sure we're claimant-favorable  
12 to everybody we're going to choose a level  
13 that's favorable to everybody.

14 DR. MAURO: Yes.

15 MR. HINNEFELD: So I think the  
16 rewrite of the Site Profile will address that  
17 one as well although it is, as you said, a  
18 different issue than the others that we  
19 mentioned.

20 DR. ULSH: I could speak a little  
21 bit more about that but I don't know if that's  
22 what you want to do.

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1                   CHAIRMAN GRIFFON:    I think we're  
2 really not going to get anywhere until we see  
3 the rewrite, right?

4                   MR. HINNEFELD:   Yes.

5                   CHAIRMAN GRIFFON:    That makes  
6 sense.   It's 121.1 through 3, right?   That  
7 would be all three of them?

8                   MR. KATZ:    Do we have a time frame  
9 for the rewrite?

10                  MR. HINNEFELD:    No, we just sent  
11 them the --

12                  MR. KATZ:    Oh, just recently?

13                  MR. HINNEFELD:    -- the go-do-this.  
14 We just sent them the go-do-this.   So they've  
15 got to fit it into the other stuff they're  
16 doing.

17                  MR. KATZ:    Thanks.

18                  CHAIRMAN GRIFFON:    Okay.   Somebody  
19 can help me along if they know where the next  
20 one is.   122.1, okay.

21                  DR. ULSH:    This is a Simonds Saw  
22 case.   Scott or Mutty, do you want to

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1 summarize this one? Let me make that not in  
2 the form of a request. How about Scott?

3 MR. SIEBERT: Okay. Let's see  
4 here. The first one has to do with, just like  
5 John was talking about with the previous one,  
6 it's 50th versus 95th percentile discussion.  
7 That really goes back to coming up with a  
8 process for that specific site as to whether  
9 we need to update, whether 50th percentile  
10 with distribution or some bifurcation like Stu  
11 was talking about doing a 95th percentile.  
12 That's where we are on that specific finding.  
13 That's .1.

14 DR. ULSH: I think the issue for  
15 .3 is the same.

16 MR. SIEBERT: .3 I think is a  
17 billet and rod issue.

18 DR. MAURO: Yes. Yes. Your  
19 generic approach used a 50/50 split between  
20 the billets and rods and I believe this  
21 person's job category -- this goes specific to  
22 this case now, not any overarching issue -- it

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1 turns out he would have been more likely  
2 associated with I forget which one it was, the  
3 billet or the rod, but the one that was the  
4 exposure field that was more limiting. And as  
5 a result if you assign him 100 percent of his  
6 exposure to the more limiting geometry he  
7 would have gotten somewhat higher exposure.

8 So this again was, well I don't  
9 know what you would call this in terms of  
10 those categories we discussed. Here's a case  
11 where you assigned a generic approach for  
12 Simonds Saw regarding the split but for this  
13 particular worker, that particular split may  
14 not really be claimant-favorable.

15 DR. ULSH: So is it fair to say  
16 that this is an issue with directions provided  
17 in the TBD rather than the way it was?

18 DR. MAURO: Yes, I think that's  
19 fair to say because the TBD did not provide  
20 any discretion by the dose reconstructor on  
21 when and when not to use the 50/50 split.

22 DR. ULSH: Right.

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1 DR. MAURO: It's universal. And I  
2 believe that in our -- so this might be more,  
3 well, we only became aware of it when  
4 reviewing the case that well maybe it's  
5 important to make that distinction and take  
6 exception. But I think that goes across the  
7 board. I mean, in all of your exposure  
8 approaches on these AWEs you come up with, you  
9 know, some degree of granularity. Sometimes  
10 it's very simple and sometimes it's a little  
11 bit more complex. And the only time, let's  
12 say it's relatively simple and we review it  
13 and gee, this particular case, I've seen it  
14 before. It looks like that you followed your  
15 approach but I think that the approach needs a  
16 little more greater resolution because there  
17 are people based on their job categories that  
18 one could easily argue you're really not being  
19 fully claimant-favorable for this particular  
20 person, and I think that's what happened here.  
21 So is this a Site Profile issue or an exposure  
22 matrix issue, you know, it falls in that gray

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1 area.

2 CHAIRMAN GRIFFON: And was the  
3 first one, if I understood Scott correctly the  
4 first one fell into that revision of the Site  
5 Profile question. Yes.

6 MR. SIEBERT: Well, the second one  
7 also kind of does because what John was  
8 saying, that you know, it's built generically  
9 with billets and rods half and half whereas,  
10 you know, if you could have the option of  
11 picking one or the other it may be more  
12 claimant-favorable. It's the same decision  
13 thought process I believe.

14 DR. ULSH: I have not yet given  
15 ORAU the direction to pick up the Simonds TBD  
16 again. I've checked and the latest revision  
17 was earlier this year but I don't think it was  
18 for the purpose of reviewing this particular  
19 issue.

20 MR. SHARFI: It was just the new  
21 SEC branch. This is Mutty.

22 DR. ULSH: Right, so that was sort

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1 of like the SEC. I think in order to resolve  
2 this particular finding I will on Wednesday  
3 when I meet with Scott direct ORAU to pick up  
4 the Simonds TBD again and look at this  
5 particular issue in particular.

6 DR. MAURO: By the way, SC&A's in  
7 the home stretch of finishing up our review of  
8 the Simonds Saw Site Profile. I don't know.  
9 John Stiver, are you on the line? I'm not  
10 sure. John has sort of been spearheading  
11 that. And I know that we're pretty close to  
12 having a draft. The only reason I bring it up  
13 is that might be helpful if you folks are also  
14 in the home stretch of reviewing it and  
15 perhaps editing it.

16 DR. ULSH: Well, it might be,  
17 John, or it might be premature for me to tell  
18 ORAU to pick it up until we have your findings  
19 so that we can take those into account as  
20 well.

21 DR. MAURO: That's why I bring it  
22 up because we're real close. We were hoping

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1 to --

2 MR. STIVER: This is John Stiver.  
3 I was on mute there. Yes, Bob Barton is  
4 heading that up and he should have a draft  
5 ready within the next few weeks, probably  
6 around the first of the year.

7 CHAIRMAN GRIFFON: Is that being  
8 picked up under another Subcommittee, part of  
9 the --

10 MR. STIVER: It's a Site Profile  
11 review.

12 CHAIRMAN GRIFFON: It's a separate  
13 Site Profile review?

14 MR. STIVER: Yes, it's a separate  
15 Site Profile review.

16 CHAIRMAN GRIFFON: Is a Work Group  
17 assigned to that? I don't think so.

18 MR. STIVER: I don't know if there  
19 actually is.

20 MR. KATZ: It's not in a Work  
21 Group.

22 CHAIRMAN GRIFFON: Okay. I'm just

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1       curious.

2                   MR. STIVER:     It was kind of an  
3       oddball situation.     The SEC was actually  
4       approved before the Site Profile review was  
5       complete.     For whatever reason a formal Work  
6       Group assignment was not made yet.

7                   DR. ULSH:     So I don't know how you  
8       want to reflect that.

9                   CHAIRMAN GRIFFON:     It would  
10      definitely make sense to wait for SC&A's  
11      review obviously, I'm just trying to think of  
12      if there was a Site Profile Work Group we  
13      could refer this, you know, to the Site  
14      Profile Work Group.     That was my initial  
15      notion.

16                   MR. HINNEFELD:     I think I'm  
17      outside Wanda's arm reach here but it's a  
18      Technical Document review.

19                   CHAIRMAN GRIFFON:     Oh yes, so it  
20      is Procedures.

21                   MR. HINNEFELD:     It hasn't been  
22      assigned and I don't make assignments but

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1       logically.

2                   DR. MAURO:   Stu, this is John. The  
3       reason all of a sudden the Simonds Saw came to  
4       the forefront in our case for the Site Profile  
5       was I believe that there was an SEC in the  
6       mill. I don't know if that Evaluation Report  
7       has been acted on. I have to say I'm not  
8       quite sure of the status of the SEC on  
9       Simonds. I remember though that SC&A was  
10      asked to sort of put the Simonds in the front  
11      of the queue because of this SEC or pending  
12      SEC.

13                  MR. STIVER:   John, I believe the  
14      SEC was granted based on the inability to  
15      reconstruct thorium doses.

16                  DR. MAURO:   Okay, thank you.

17                  MR. STIVER:   I don't recall the  
18      exact dates off the top of my head.

19                  DR. MAURO:   Okay.

20                  MR. STIVER:   So we're basically  
21      looking at the residual period for the most  
22      part.

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1 CHAIRMAN GRIFFON: Well, I mean I  
2 think it's worthwhile checking with the team  
3 to see about the Site Profile update, but I  
4 would also put an asterisk saying that I think  
5 it makes sense for you guys to wait for SC&A's  
6 review. I'm just not sure where that review  
7 goes to at this point, where SC&A's review is  
8 going to.

9 MR. HINNEFELD: Well, they'll  
10 deliver it to us.

11 CHAIRMAN GRIFFON: Yes, right, but  
12 I mean on the Board.

13 MR. HINNEFELD: What Subcommittee?

14 CHAIRMAN GRIFFON: Yes.

15 MR. KATZ: Yes, I mean this is one  
16 where we could start a new Work Group.

17 CHAIRMAN GRIFFON: Yes. But it  
18 doesn't fit under one of the TBD-6000/6001. It  
19 doesn't fit under --

20 DR. MAURO: No, it's standalone.

21 CHAIRMAN GRIFFON: Standalone,  
22 yes. Right. Okay.

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1 MR. KATZ: So it would be good to  
2 speed that along, the SC&A report, as much as  
3 it can be since we know.

4 DR. MAURO: We're in the home  
5 stretch.

6 MR. KATZ: Yes, that's good.  
7 Thanks.

8 MR. HINNEFELD: Yes, apparently  
9 the Board made its vote in Santa Fe.

10 MR. KATZ: Yes.

11 DR. MAURO: Ted, this is one of  
12 those four or so Site Profile reviews that we  
13 did slow down last year for budget reasons.

14 MR. KATZ: Right.

15 DR. MAURO: But then we brought it  
16 back up again quickly when it got, you know,  
17 the SEC process began.

18 MR. KATZ: Right.

19 CHAIRMAN GRIFFON: Now, moving on  
20 to 122.7, this is about thorium internal dose.  
21 Is it for the residual period though? I don't  
22 know. Because I mean, the SEC was approved

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1 for this very reason, right? So I don't know  
2 how much further we would have to go on this.

3 DR. MAURO: It sure sounds that  
4 way, Mark, that this was what triggered it. As  
5 John pointed out maybe something that we could  
6 take a quick look at it, see if in fact this  
7 issue, you know, in effect was resolved when  
8 the SEC was granted.

9 CHAIRMAN GRIFFON: And I guess the  
10 question would be for this particular case is  
11 this person in the SEC or is it residual  
12 period, yes. Because we approved the  
13 residual.

14 DR. MAURO: Yes, that's a good  
15 point.

16 MR. SIEBERT: Let me bring this up  
17 real quick. If they're rolling, they would  
18 have to be doing the operations --

19 CHAIRMAN GRIFFON: This looks like  
20 -- yes, yes, looks like operational, so.

21 MR. SIEBERT: It wouldn't be a  
22 furnace operator if it was during residual.

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1                   MR. STIVER:    Yes, I believe the  
2 residual was 1957 and beyond.

3                   MR. SIEBERT:    '58 and beyond. The  
4 SEC is '48 to '57.

5                   MR. STIVER:    Up through '57, yes,  
6 because there was some question about what was  
7 going on in that last year.

8                   MEMBER MUNN:    Yes, and the date  
9 given here is '52. So it's definitely inside  
10 the SEC.

11                  MR. KATZ:    So that's one you can  
12 probably close then, right?

13                  CHAIRMAN GRIFFON:    Yes, I think  
14 so. But okay, I'm just asking 122.1.3, it  
15 seems like those still need to be addressed as  
16 concepts in the -- yes. But in the residual  
17 period would they have, I don't even know if  
18 the, you know, billets would be an issue in  
19 the residual period. All the main materials  
20 would be removed, right? Yes. So that  
21 wouldn't be a question any further either,  
22 would it?

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1                   MR. SIEBERT:     It would only be  
2     during --

3                   CHAIRMAN     GRIFFON:             During  
4     operational, right?

5                   MR. HINNEFELD:     Well, during the  
6     operational period for people without SEC.

7                   CHAIRMAN GRIFFON:     Oh yes, without  
8     presumed cancers, okay.    So I think we should  
9     --

10                  MR. KATZ:     Or without 250 days,  
11     right?

12                  CHAIRMAN     GRIFFON:             Right, or  
13     without 250 days.    So the, I mean a lot of  
14     times why we're capturing these, right, is  
15     because it's a Simonds Saw issue, not just a  
16     particular claim issue.

17                  DR. MAURO:     Maybe I can help out a  
18     little bit.    I'm looking at these 122.3.4  
19     where we're talking global issues for Simonds  
20     during the residual period.    The only thing I  
21     can say right now is that there has been  
22     general agreement, this goes back to OTIB-70,

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1 that -- and TBD-6000. There was some  
2 discussion where we had some concerns on  
3 residual period which are crosscutting for  
4 just about all sites, and those issues had  
5 been largely resolved when we resolved TBD-  
6 6000 and OTIB-70. So what I'm saying is that  
7 if it's NIOSH's position in their SEC review  
8 that the SEC was granted for thorium during  
9 operations but they say they can reconstruct  
10 thorium internal doses for the residual period  
11 we would agree in principle if in fact the  
12 approach that was selected for the residual  
13 period followed the protocol as we've all  
14 agreed upon in principle and the OTIB-70 and  
15 TBD-6000 Work Group. There's a process of  
16 reconstructing exposures and there's agreement  
17 across the board. Those issues have all been  
18 resolved. It's just a matter of is that in  
19 fact the way in which the residual period is  
20 being handled at Simonds.

21 MR. STIVER: This is John Stiver.  
22 I know that was one of the issues Bob Barton

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1 was looking into in developing this review.

2 DR. MAURO: Okay. So that would  
3 be very helpful.

4 MR. STIVER: This is the Site  
5 Profile that was put together back, you know,  
6 around the 2005 time frame. So there may very  
7 well be something that's kind of the lag that  
8 we were looking at before in this case.

9 CHAIRMAN GRIFFON: I'll go back to  
10 my simpler solution which I made earlier but  
11 now I think it's more justifiable which is  
12 let's throw this to the Site Profile group,  
13 because I think these two issues are still  
14 issues but not really in this case. I mean,  
15 this is an SEC case. So especially 122.1.3  
16 and .7, the general concept of thorium  
17 reconstruction during the residual period  
18 would come up, but they're all Site Profile  
19 issues and I think --

20 DR. MAURO: And we'll all be in a  
21 better position to discuss it once we have our  
22 report out.

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1 CHAIRMAN GRIFFON: Right, right,  
2 right.

3 DR. MAURO: Very good.

4 CHAIRMAN GRIFFON: So does that  
5 make sense, Brant? I mean, you know, I think  
6 they're going to be on the table as general  
7 issues in the Site Profile discussion. This  
8 is an SEC claim at this point, right?

9 DR. ULSH: We've still got to  
10 address it.

11 CHAIRMAN GRIFFON: We've still got  
12 to do it one way or the other, I know, I know.  
13 I'm just, I don't want to be having both  
14 groups working, you know.

15 MR. KATZ: We don't have a second  
16 group right now but --

17 CHAIRMAN GRIFFON: We will.

18 MR. KATZ: We can ask for one.

19 CHAIRMAN GRIFFON: Right. I'm  
20 assuming that we'll set up. Because we don't  
21 have enough Work Groups.

22 MR. KATZ: We don't. Only 26.

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1 CHAIRMAN GRIFFON: Okay.

2 MEMBER MUNN: We need one for  
3 every available site, right?

4 CHAIRMAN GRIFFON: So I'm going  
5 to, as disposition I'm going to put moved to  
6 Simonds Saw Site Profile Review Work Group  
7 which doesn't exist but I'm assuming Ted will  
8 make that.

9 MR. KATZ: I'll send a message to  
10 Jim because he's got to do a number of Work  
11 Group assignment matters anyway.

12 CHAIRMAN GRIFFON: Right. Okay.

13 MR. KATZ: Add this to his pile.

14 DR. MAURO: In concept, by the  
15 way, this would fit very well with 6000. Even  
16 though it's not one of the original  
17 attachments to 6000 the issues themselves that  
18 are of concern here, you know, metal-working,  
19 is very consistent with the kinds of problems  
20 we've engaged for the sites that the Site  
21 Profile -- I'm sorry, the TBD-6000 Work Group  
22 has been working.

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1                   CHAIRMAN GRIFFON: Yes, that's why  
2 I asked. I thought it was an Appendix  
3 approach. Okay, moving on then.

4                   DR. ULSH: I think that might be  
5 all.

6                   CHAIRMAN GRIFFON: Is that it? I'm  
7 going to send it through, yes.

8                   DR. ULSH: It's worth double-  
9 checking but I think that might be it for that  
10 matrix.

11                  CHAIRMAN GRIFFON: I'm relying on  
12 my yellow highlighting. I don't see any.

13                  MR. FARVER: So for 122.7 which  
14 was the review of the HASL data, are we going  
15 to close that and keep the other 122.1 and 3  
16 open?

17                  CHAIRMAN GRIFFON: Yes, I think  
18 so, because that's operational data, right?

19                  MR. FARVER: Okay.

20                  CHAIRMAN GRIFFON: I don't know if  
21 it would play into the residual model but  
22 they'll pick it up if it does, right?

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1 DR. ULSH: So you're going to put  
2 matrix 122 and -3 not closed but referred to  
3 whatever this group.

4 CHAIRMAN GRIFFON: 122.1 and .3 as  
5 referring to the Site Profile group. 122.7  
6 we'll close. Right.

7 DR. ULSH: Okay. All right,  
8 that's it.

9 CHAIRMAN GRIFFON: So moving on to  
10 the eighth matrix is there a lot of new stuff  
11 in there?

12 MR. FARVER: No. Last meeting we  
13 stopped at, well we finished with the 153  
14 case.

15 DR. ULSH: Actually that's the one  
16 I think we just delivered a new --

17 MR. FARVER: That's correct.

18 CHAIRMAN GRIFFON: So anything  
19 before 153 there's no real updates. It's not  
20 worth walking through all these?

21 MR. FARVER: No, I don't think so.

22 CHAIRMAN GRIFFON: Okay. So I'll

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1 leave my yellow highlighting as is for the  
2 others? Because there are a number of ones  
3 that are still.

4 MR. FARVER: Yes. 153.6 and 153.7  
5 they provided a response.

6 CHAIRMAN GRIFFON: Those are the  
7 first two, Brant? Is that?

8 DR. ULSH: Yes, I think so.

9 CHAIRMAN GRIFFON: All right, so  
10 153.6.

11 MR. FARVER: 153.6 is --

12 CHAIRMAN GRIFFON: Whoever wants  
13 to introduce the case.

14 MR. FARVER: I can go ahead. This  
15 is a Savannah River case and the finding says  
16 the DR report does not account for all  
17 recorded or modeled neutron dose. And this is  
18 one of these cases where it has to do with  
19 where the employee worked and how they're  
20 placed because in the time period of '78 to  
21 '82, get my years right, it looks like the DR  
22 assumed the worker worked in, and I'm still

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1 getting the location, okay.

2 CHAIRMAN GRIFFON: I just want to  
3 make sure I'm looking at the latest version  
4 too because I have as the last action in this  
5 in the yellow I have from 4/18. I don't see  
6 anything in July. And it was, "SC&A will  
7 review NIOSH response." Was there an action  
8 after that in July?

9 DR. ULSH: I think so.

10 CHAIRMAN GRIFFON: Do you have the  
11 matrix open? Is there?

12 MR. FARVER: Yes, July we had a --  
13 well, I'm not sure if we got -- we did get to  
14 it.

15 DR. ULSH: There is a July. NIOSH  
16 further reviewed this case looking at the  
17 guidance available at the time which is pre-  
18 OTIB 7.

19 CHAIRMAN GRIFFON: Oh, so I'm not  
20 looking at the -- the copy I have open isn't  
21 the most current copy of the matrix.

22 DR. ULSH: That's yellow highlight

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1 for 153.6 that I have in the matrix I have  
2 open.

3 MR. FARVER: Yes.

4 MR. SHARFI: It moved to another  
5 page, at least on my version.

6 CHAIRMAN GRIFFON: Yes.

7 MEMBER RICHARDSON: So what's your  
8 version titled?

9 DR. ULSH: 8-30 Case Matrix  
10 Working Draft July 15th, 2011 is the one I  
11 have. It's 114, sorry, 107 pages.

12 CHAIRMAN GRIFFON: And I see mine  
13 is labeled April, yes.

14 MEMBER MUNN: April.

15 CHAIRMAN GRIFFON: Oh here, I have  
16 the other one.

17 MEMBER MUNN: I don't.

18 CHAIRMAN GRIFFON: Do you want me  
19 to email those? Do you have, can you? Well,  
20 if you have the whole list, Stu, do you have  
21 the eighth one that you could forward to  
22 people?

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1 MR. HINNEFELD: Yes, it was in an  
2 email that Ted sent in late July and it was  
3 with the seventh.

4 CHAIRMAN GRIFFON: Does it have  
5 the eighth?

6 MR. HINNEFELD: Yes, it has them  
7 both.

8 CHAIRMAN GRIFFON: It should have  
9 been on July 15th, right? Or July 16th.

10 DR. MAURO: The title has July  
11 15th in it.

12 CHAIRMAN GRIFFON: Yes, and I  
13 found my right one now, yes.

14 MR. HINNEFELD: Okay.

15 MEMBER RICHARDSON: What was the  
16 date?

17 CHAIRMAN GRIFFON: Was it sent on  
18 the 16th?

19 MR. HINNEFELD: It was sent on the  
20 --

21 MEMBER RICHARDSON: Twenty-first?

22 MR. HINNEFELD: Hang on a minute.

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1                   MEMBER RICHARDSON: Yes, the 21st  
2 here. It was the July 15th document.

3                   MR. HINNEFELD: Yes, it was sent  
4 on July 21st and it is, the filenames have  
5 July 15th in the filenames. Now, who needs  
6 it?

7                   MEMBER RICHARDSON: I have it now,  
8 thank you.

9                   CHAIRMAN GRIFFON: Yes, I have it.  
10 Wanda, do you need it or have you got it?

11                   MEMBER MUNN: I'm looking.

12                   CHAIRMAN GRIFFON: Okay, that  
13 makes more sense. There's the July 15th  
14 action. Okay. 153.6. So you should have a  
15 7/15 action.

16                   DR. ULSH: If yours is 107 pages  
17 long like mine is it's on page 14.

18                   CHAIRMAN GRIFFON: Top of page 14,  
19 yes.

20                   MEMBER MUNN: This is the eighth  
21 set, right?

22                   CHAIRMAN GRIFFON: Eighth set,

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1 yes. What threw me off is they were both  
2 saved on July 15th on my computer, so.  
3 Everybody got them? Brad, have you got the?

4 MEMBER CLAWSON: Trying to.

5 CHAIRMAN GRIFFON: Okay. Can you  
6 just resend them to?

7 MEMBER MUNN: There it is.

8 CHAIRMAN GRIFFON: Oh, you've got  
9 it?

10 MEMBER MUNN: This is for the  
11 seventh and eighth I think. I think that's  
12 it.

13 CHAIRMAN GRIFFON: July 21st  
14 email, is that what you're looking at?

15 MEMBER MUNN: No.

16 MR. HINNEFELD: Okay, I've resent  
17 it to Wanda and Brad, Jenny.

18 MEMBER CLAWSON: Stu, did you send  
19 it to my CDC account?

20 MR. HINNEFELD: I sent it to your  
21 ICP account.

22 MEMBER CLAWSON: ICP?

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1 MR. HINNEFELD: Yes.

2 MEMBER CLAWSON: Oh, that's my  
3 government.

4 MR. HINNEFELD: Do you want it on  
5 your CDC account?

6 MEMBER CLAWSON: If you would,  
7 please, yes. I didn't get the one this  
8 morning either, that's what I was kind of  
9 looking for.

10 MEMBER MUNN: Might as well send  
11 it to me too.

12 CHAIRMAN GRIFFON: I think he did.

13 MEMBER MUNN: And there it is.  
14 There it is, the 21st. Finally. I guess it  
15 doesn't get translated in the mail to where I  
16 want it. It's a puzzlement.

17 CHAIRMAN GRIFFON: We're on 153.6.

18 MR. FARVER: Are we ready?

19 CHAIRMAN GRIFFON: Yes, I think  
20 we're ready. Yes. Go ahead and pick it up.  
21 So we had an action on 7/15 at NIOSH, a  
22 further review of this case looking at

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1 guidance available at the time.

2 MR. FARVER: Okay. The time  
3 period in question is 1978 to 1982. The  
4 employee was assumed to have worked at 221 FB  
5 Line, Savannah River. What NIOSH did is  
6 assigned him a neutron dose in '78 and '81  
7 which were the years when the neutron dose was  
8 recorded. So no unmonitored and no missed  
9 neutron dose was calculated for the remaining  
10 years. And in our original finding we site  
11 TIB-7 Section 3.1 which talks about non-  
12 routine workers from 1971 through 1989 and it  
13 lists specific criteria about work location,  
14 job description and photon exposure. And we  
15 believe that the employee met those conditions  
16 and should have been assigned a neutron dose  
17 from the other years, other than '78 and '81.

18 And NIOSH response, to tell you  
19 the truth I really didn't understand the  
20 response completely. It starts off by saying  
21 yes, it could be, you could look at it that  
22 way, you know, that we should assign dose for

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1 those years and it talks about it, and then I  
2 believe at the end after the case has been  
3 reworked for Super S. It kind of lost me here  
4 and I'm guessing that you're saying if you  
5 rework it and add in the missing dose then the  
6 PoC drops and I got confused there.

7 DR. ULSH: Well, I think the  
8 important point from our latest response is  
9 when SC&A issued the finding they cited OTIB-7  
10 and I think we've been down the path now where  
11 we figured out that OTIB-7 was not in place at  
12 the time that this dose reconstruction was  
13 originally done. However, a lot of the  
14 predecessor guidelines that became OTIB-7 we  
15 were still operating under. The bottom line  
16 from the latest response is this basically  
17 comes down to a matter of professional  
18 judgment and I think at the end of the day we  
19 by and large agree that we probably should  
20 have assigned neutron dose for all of the  
21 years in question. We also in our response  
22 talked about in addition to the original dose

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1 reconstruction this particular DR had been  
2 reworked for Super S and that's not the one  
3 that SC&A reviewed because this came after  
4 that. So we talked about both the original  
5 and the Super S. But at the end of the day I  
6 think the take-home message is yes, I think we  
7 agree -- it comes down to professional  
8 judgment. We think it's probably reasonable  
9 to assign a neutron dose.

10 MR. FARVER: And this is one of  
11 those issues where, where did the employee  
12 work, where we could assign them or if we  
13 can't assign them what information we have on  
14 where they worked. And it comes down, it's  
15 important for Y-12 and Savannah River mainly  
16 under neutron dose, missing and unmonitored  
17 neutron dose.

18 CHAIRMAN GRIFFON: Can I ask,  
19 Brant, did it result in any changes in your  
20 guidance? I mean, it seems like it still is  
21 left up to the -- a little bit of judgment,  
22 right?

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1 DR. ULSH: Yes. I mean, I don't  
2 think that we changed the Savannah River Site  
3 Profile in response to this. I mean, you can  
4 never prescribe guidance for every  
5 professional judgment case that comes up. I  
6 think the impact of this particular one was  
7 pretty minimal but, I don't know. Mutty, do  
8 you have anything further to add, any other  
9 pertinent details?

10 MR. SHARFI: I do not.

11 MR. SIEBERT: This is Scott. No,  
12 you pretty much hit it on the head. There are  
13 some years in the middle such as 1980 that  
14 really don't fit the definition even under  
15 TIB-7 assuming that the person was exposed to  
16 neutron. But as Brant said, we talked about  
17 it and walked through all the different years  
18 and it would be a reasonable professional  
19 judgment that even though it doesn't meet the  
20 spirit of the letter of TIB-7 for specifically  
21 1980 it would be reasonable to assign neutrons  
22 during that time frame.

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1           So like Brant said, what we did is  
2 we reviewed the original assessment and the  
3 Super S rework assuming that neutron exposure  
4 occurred during all those years, determined  
5 whether there was a difference in  
6 compensability or not and the PoC really  
7 didn't change much. Compensability certainly  
8 did not change.

9           DR. ULSH: So Scott, I don't --  
10 let's just say for the sake of discussion at  
11 this particular point in time that everyone  
12 agrees up to this point. That may not be the  
13 case but let's just say that. Then Mark's  
14 question is given the resolution of this where  
15 it appears that we have a situation where the  
16 guidance, the Savannah River TBD and whatever  
17 applicable procedures come into play do we  
18 need to make them more prescriptive to cover  
19 this situation? Is it going to be something  
20 that's common enough that we want to edit that  
21 or is this one of those things that you just  
22 kind of have to say, you know, it's a one-off

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1 or two-off.

2 MR. SIEBERT: I would tend to say  
3 this is an unusual one because there are, you  
4 know, there's time frames during those years  
5 where it's clear that we should be assigning  
6 neutrons such as when there are neutron badges  
7 or when there's an incident report saying he  
8 was in FB line. Then the fuzzier things are  
9 years where it doesn't meet the requirements  
10 of TIB-7 such as there's no plutonium  
11 bioassay, the shallow-to-deep ratio does not  
12 come all the way up to 1. So I think it's  
13 more of a one-off situation than something  
14 that you can generically prescribe.

15 CHAIRMAN GRIFFON: Yes, I guess  
16 that would be my question is if it didn't meet  
17 those requirements do those requirements need  
18 to be modified slightly or whatever. I don't  
19 know. But it sounds like you said probably  
20 not in this instance.

21 MR. FARVER: No. I can look at  
22 it. I can see it completely different because

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1 under Section 3 which talks about non-routine  
2 workers for '71 through '89 it doesn't mention  
3 anything about plutonium bioassay, it doesn't  
4 mention anything about neutron-to-photon  
5 ratios. It is strictly based on work  
6 location, job description and did he have  
7 previous positive photon exposure.

8 CHAIRMAN GRIFFON: So you think  
9 under that they should have --

10 MR. FARVER: I think under that  
11 it's quite clear.

12 CHAIRMAN GRIFFON: Right.

13 MR. FARVER: Now, if it was --

14 CHAIRMAN GRIFFON: Because this  
15 person was a laborer, right? Is that correct?

16 MR. FARVER: I believe so.

17 CHAIRMAN GRIFFON: But a non-  
18 routine.

19 MR. FARVER: It was non-routine  
20 monitoring. Because if we only had two years  
21 I call that non-routine, so..

22 DR. ULSH: Okay, so I guess we're

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1 in agreement that for this particular dose  
2 reconstruction -- because we've basically  
3 agreed with your position.

4 MR. FARVER: Yes. The other  
5 question I have, this is another case where  
6 the dose goes up and the PoC goes down.

7 DR. ULSH: Scott, is that  
8 something that can be explained easily? Is  
9 that?

10 MR. SIEBERT: I think that's based  
11 on the fact that, you know, you're not adding  
12 -- I mean realistically the neutron doses  
13 we're talking about during that time frame,  
14 you're not adding much. And we're at the, you  
15 know, we are right at the 45-ish percent point  
16 and things are going to go slightly up or  
17 slightly down. In this case it went slightly  
18 down.

19 CHAIRMAN GRIFFON: Yes. I mean,  
20 I'm looking at the table that was in our  
21 response and I don't want to get too specific  
22 but the dose for the one organ went, it was

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1 less than, it was about one-third of a percent  
2 in PoC. In the other organ it was about one-  
3 third of a percent, so it didn't change much.  
4 It's in that area where, you know, this is a  
5 statistical process.

6 DR. ULSH: So I think for this  
7 particular DR we're in agreement. The  
8 remaining question on the table is do we need  
9 to change any guidance documents, either SRS  
10 TBD or procedures. Doug, you mentioned that  
11 we didn't say anything about plutonium  
12 bioassay is a signal for a neutron dose. Yes,  
13 I mean in general someone working with  
14 plutonium or has a potential exposure we would  
15 consider --

16 MR. FARVER: For that one section  
17 of the TIB it does not specify. Now, in the  
18 other sections where it's talking about I  
19 think routine workers and other things, yes,  
20 it does mention that's one of the criteria and  
21 also about the neutron-to-photon, or the  
22 shallow-to-deep ratio. But not in the section

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1 talking about non-routine workers from '71  
2 through present.

3 DR. ULSH: So I guess what I'm  
4 trying to get a handle on is it SC&A's  
5 position that we do need to change those  
6 guidance documents or not?

7 MR. FARVER: No, I think that the  
8 guidance document is fine, I just don't think  
9 that section was followed.

10 DR. MAURO: So Doug, you're saying  
11 this is a QA issue as opposed to a personal  
12 judgment issue where some additional guidance  
13 might be needed?

14 MR. FARVER: Yes, I believe the  
15 section as it's written was not followed  
16 correctly.

17 CHAIRMAN GRIFFON: Or else our  
18 guidance wasn't clear enough. You know,  
19 that's the other question, right? Because it  
20 sounds like Scott's reading that differently.

21 MR. FARVER: Well, I think he was  
22 looking at a different section.

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1 CHAIRMAN GRIFFON: Yes.

2 MR. FARVER: I mean Section 4  
3 talks about clarification of the neutron-to-  
4 photon ratio and then if you move up to  
5 Section 2 that talks about work potential  
6 prior to '71 and it talks about the work area  
7 and you should have --

8 DR. ULSH: Is it important that we  
9 come to resolution on this last little piece  
10 at this meeting?

11 CHAIRMAN GRIFFON: No, no. Because  
12 I also think that Savannah River has had this  
13 -- we've got several cases on this, right?

14 MR. FARVER: Yes, yes.

15 CHAIRMAN GRIFFON: So I think  
16 it'll come back and if we think in this case  
17 it was just a matter of not following what was  
18 there then that's fine. But I think other  
19 ones might come up with the broader question  
20 of, you know, do you need to revise. I mean,  
21 I think that's going to come up again, right?

22 MR. FARVER: Oh, I'm pretty sure

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1 it'll come up again.

2 CHAIRMAN GRIFFON: Is my sense,  
3 yes. So for now I think we close this one  
4 out. This didn't have a big effect on this  
5 particular case.

6 MR. FARVER: You might want to go  
7 back and look at the Section 2 and Section 3  
8 because, you know Section 2 does talk about  
9 your shallow-to-deep ratios and plutonium  
10 bioassays but then Section 3 doesn't. And I  
11 don't know if they want to go back and revise  
12 that or just look at that.

13 CHAIRMAN GRIFFON: Alright.

14 DR. ULSH: So between the last  
15 meeting of this Subcommittee and this one  
16 we've now talked about the things that we've  
17 delivered that are new. There might still be  
18 some things that are, that we delivered back  
19 in April but we haven't talked about, I don't  
20 know.

21 MR. FARVER: Correct. So if we  
22 start with 154 then --

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1                   CHAIRMAN GRIFFON:        So there's  
2       nothing new on 153.7, is that what you're  
3       saying?

4                   MR. FARVER:     153.7 and 153.6 were  
5       what we just --

6                   CHAIRMAN GRIFFON:    Oh, they're the  
7       same. Okay, you're right, got it, got it.

8                   MR. FARVER:     And we go to 153.8  
9       and I believe that is our issue on fission  
10      products. And I believe we resolved that at  
11      the last meeting: failure to account for  
12      internal dose from all fission products. Sound  
13      familiar?

14                  CHAIRMAN GRIFFON:    Sounds familiar  
15      several times, yes.

16                  DR. ULSH:     Yes, it looks like that  
17      was resolved.

18                  MR. FARVER:     I believe that was  
19      resolved.

20                  CHAIRMAN GRIFFON:    Yes, that's  
21      closed out, right? Look at that. So then  
22      we're up to 154.1 like you were saying.

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1 MR. FARVER: Yes.

2 CHAIRMAN GRIFFON: Okay. So who's  
3 up?

4 MR. FARVER: 154.1 and 154.2 are  
5 NIOSH will review.

6 CHAIRMAN GRIFFON: Yes.

7 MR. FARVER: So we don't have any  
8 information on that.

9 DR. ULSH: Yes, I don't think we  
10 have anything to report on that at the moment.

11 CHAIRMAN GRIFFON: Alright.

12 MR. KATZ: So will that be next  
13 meeting?

14 DR. ULSH: I'm putting it at the  
15 top of the list. These are now the oldest  
16 findings, so.

17 MR. SIEBERT: Well, correct me if  
18 I'm wrong but they are, the comment is NIOSH  
19 will review and determine the nature of the  
20 error and how to prevent this in the future.  
21 Doesn't that fall under the QA/QC process  
22 review?

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1 MEMBER MUNN: It should.

2 DR. MAURO: Sounds that way. It  
3 sounds like we're in agreement here, that you  
4 agree that this error that was made was in  
5 fact an error.

6 CHAIRMAN GRIFFON: Right, right.  
7 Yes, so this falls -- yes, you're right. It  
8 falls into that QA/QC grouping if we're  
9 continuing to track the QA/QC cases, right?

10 DR. ULSH: From our standpoint,  
11 from the NIOSH/OCAS/DCAS standpoint we still  
12 need to answer. It's just a different  
13 context.

14 CHAIRMAN GRIFFON: Yes. Right.  
15 Now, do we -- I don't see much highlighting  
16 beyond this but I don't know that we got  
17 further than this.

18 MR. FARVER: Oh we did at the last  
19 meeting but we -- NIOSH did provide some  
20 responses even through set 9 I believe from  
21 April.

22 DR. ULSH: I think that's the

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1 case.

2 MR. FARVER: So we can keep moving  
3 on.

4 CHAIRMAN GRIFFON: Okay.

5 MEMBER RICHARDSON: So are those  
6 closed, 154.1 and 154.2?

7 CHAIRMAN GRIFFON: Well, they're  
8 under the QA/QC umbrella, that's the problem.  
9 Yes. How do we want to handle those, that's  
10 the question. I mean, we've got this  
11 outstanding group that SC&A forwarded to NIOSH  
12 for consideration, right? And that was from  
13 the older sets of QA/QC.

14 MR. FARVER: I think you may want  
15 to leave those two open until they look into  
16 them. And then they could come back and say  
17 we looked into them and close them.

18 CHAIRMAN GRIFFON: Yes, I think  
19 they have to stay open.

20 MEMBER MUNN: Are we going to try  
21 and track -- is this body going to try to  
22 track these things that we're putting in the

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1 QA/QC box in some way other than our broader  
2 matrices?

3 CHAIRMAN GRIFFON: Well, we  
4 haven't in the past, but. I mean, track them  
5 separately.

6 DR. MAURO: This is John. From  
7 the point of view of this particular issue we  
8 have agreement that this is something that  
9 needs to be fixed, you know, agrees that  
10 there's a QA problem, whatever, QA, they  
11 didn't exactly follow the procedures. So from  
12 the point of view of what we've historically  
13 done in the matrices was, okay, this would  
14 have been closed. You said yes, we agree, and  
15 NIOSH will take action. I don't know what  
16 action NIOSH would take to see if it has an  
17 effect on the outcome or not but, you know, we  
18 agree with the resolution on how to resolve  
19 this issue. I guess we're creating something  
20 new now in terms of okay, we're collecting,  
21 you know, quality assurance issues and now it  
22 becomes a matter of, okay, what protocols are

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1 being put in place to catch these types of  
2 quality assurance deviations and take some  
3 action I guess to get to the root cause,  
4 whatever, which is really something different  
5 than what we're doing right now in going  
6 through this matrix.

7 CHAIRMAN GRIFFON: I think you're  
8 right, John. Yes.

9 MEMBER MUNN: It's entirely  
10 different but then up until today we did not  
11 have a directive with respect to the 10-year  
12 report. We now have a directive with respect  
13 to the 10-year report and it appears to me  
14 that that places an additional burden on us to  
15 do something in terms of categorization.

16 CHAIRMAN GRIFFON: I think what  
17 makes most sense to me is to close it out here  
18 and then when we finalize these matrices we  
19 should fill in those blank columns which would  
20 identify this as a QA/QC finding and then we  
21 do like we did with the first five sets, we  
22 sort of do an aggregate report of what we have

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1 for QA findings, stuff like that. And then,  
2 you know, the ultimate resolution is your  
3 response to the QA/QC aggregate issues that  
4 have been identified, not each one in  
5 particular.

6 MEMBER MUNN: They clearly go in  
7 the category.

8 CHAIRMAN GRIFFON: Yes.

9 DR. MAURO: Maybe some words that  
10 say transfer to the overarching QA issue or  
11 something like that?

12 CHAIRMAN GRIFFON: No, I think  
13 that'll be understood. I mean, any QA/QC ones  
14 we have we're going to transfer.

15 MEMBER MUNN: Or just mark them,  
16 essentially.

17 CHAIRMAN GRIFFON: Yes, mark them,  
18 label them QA/QC. We'll have to go through  
19 the matrices from --

20 MEMBER MUNN: We can track that  
21 easily under Category.

22 CHAIRMAN GRIFFON: Yes.

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1 DR. ULSH: So in the context of  
2 this matrix then you're going to change it to  
3 say that these two issues are closed?

4 CHAIRMAN GRIFFON: Closed.

5 DR. ULSH: No action from us  
6 required.

7 CHAIRMAN GRIFFON: No, not in this  
8 context of the matrix, right.

9 DR. ULSH: Not right now.

10 MEMBER MUNN: It said closed,  
11 under category it says QA/QC.

12 MR. KATZ: Yes, so it seems to me  
13 DCAS when they're looking at the QA/QC system,  
14 they're going to want to compare all these  
15 examples against that system to see that  
16 they're all being addressed similarly for the  
17 Subcommittee down the road.

18 CHAIRMAN GRIFFON: Right.

19 MR. KATZ: They'll want to see  
20 those matters.

21 CHAIRMAN GRIFFON: Exactly.

22 MR. FARVER: And just so you know,

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1 this has to do with incorrectly calculating  
2 the low photon over the -- yes.

3 CHAIRMAN GRIFFON: Right.

4 MEMBER CLAWSON: Those have been  
5 corrected for this dose reconstruction? Or  
6 are we worried about that, Mark?

7 CHAIRMAN GRIFFON: Well, we  
8 concluded that it wouldn't likely affect this  
9 case I think, right? At least that's what our  
10 summary says.

11 MEMBER MUNN: That's correct.

12 CHAIRMAN GRIFFON: I think we  
13 looked at it at least enough to know that it  
14 wasn't likely to --

15 MR. FARVER: It could be a  
16 workbook issue or something like that where it  
17 could affect many cases.

18 CHAIRMAN GRIFFON: Right.

19 MR. FARVER: It just has to do  
20 with the incorrect equation.

21 CHAIRMAN GRIFFON: Right. But for  
22 this case we're closing it, yes. It wasn't

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1 going to make a big difference.

2 MEMBER MUNN: And in the Category  
3 box we're saying QA/QC, right?

4 CHAIRMAN GRIFFON: Yes. And I  
5 want to look back at my first -- I'll try to,  
6 as homework I'll try to go back if it's 6, 7,  
7 8 and try to categorize these things like I  
8 did last time. We can bring them back to this  
9 Committee.

10 MEMBER MUNN: In your copious free  
11 time.

12 CHAIRMAN GRIFFON: In my free  
13 time. Actually I'm going to be here tonight  
14 so maybe Wanda can help me tonight.

15 MEMBER MUNN: Thanks a lot.

16 CHAIRMAN GRIFFON: Alright, where  
17 do we stand on time? We're getting -- anyway.  
18 Alright, let's just move down and try to --

19 DR. ULSH: The next yellow  
20 highlighting I see is 160.1 unless I missed  
21 any. Which is page 33 of 107.

22 MR. FARVER: And Tab 160 in

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1 general is a rework case that we are to  
2 provide a review of the reworked case and the  
3 original case.

4 CHAIRMAN GRIFFON: Can I ask, just  
5 -- I hate to go back but looking at 155.2  
6 which we did close out, I'll give you that,  
7 but I'm interested in our answer here. SC&A  
8 understands what NIOSH did and believes it's a  
9 subjective call. This is a work location  
10 thing again. I think it's Savannah, is it  
11 Savannah River?

12 MR. FARVER: Yes.

13 CHAIRMAN GRIFFON: Yes.

14 MR. FARVER: This is professional  
15 judgment.

16 CHAIRMAN GRIFFON: So in this case  
17 you accepted their arguments on the subjective  
18 call I guess, right?

19 MR. FARVER: This is one, it could  
20 go either way.

21 CHAIRMAN GRIFFON: Yes, okay.

22 MR. FARVER: We don't necessarily

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1 agree with it but we understand what they did  
2 and why it was done that way.

3 CHAIRMAN GRIFFON: Right. Well,  
4 that gets me back to if you don't agree with  
5 it.

6 MR. FARVER: I wouldn't do it that  
7 way but I understand how they came up with  
8 their numbers.

9 MEMBER CLAWSON: Aren't we going  
10 to be getting a clarification on professional  
11 judgment? Isn't that in the 10-year review?

12 CHAIRMAN GRIFFON: Something did  
13 come up about professional judgment.

14 MEMBER CLAWSON: I thought Stu or  
15 Jim was going to go kind of clarify that. I'm  
16 waiting to see how that comes out but --

17 MEMBER RICHARDSON: But this is  
18 number one of the three nested issues --

19 CHAIRMAN GRIFFON: Right.

20 MEMBER CLAWSON: Are they placed  
21 correctly.

22 MEMBER RICHARDSON: Placing people

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1 and what sort of metrics could be developed so  
2 that we could assess whether these judgments -  
3 -

4 CHAIRMAN GRIFFON: Were claimant-  
5 favorable.

6 MEMBER RICHARDSON: -- robust and  
7 that those judgments could be improved over  
8 time. I think this would fall in that  
9 category, that major category. I mean, we  
10 could look at this as one of these examples  
11 again. Because you're imagining a different  
12 way of doing this than somebody else imagined  
13 how to do it.

14 CHAIRMAN GRIFFON: Right.

15 MEMBER RICHARDSON: Presumably  
16 there is some gold standard out there about  
17 where the person actually was. I mean, if  
18 you're trying to think about what the metric's  
19 going to be you would want to start by finding  
20 someplace where you actually agreed that  
21 somebody was there. And then you would go  
22 back and use the records, find a living

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1 worker, maybe take their word as where they  
2 were and then run their location.

3 CHAIRMAN GRIFFON: Right, right.

4 MEMBER RICHARDSON: I mean, I was  
5 just trying to think through how you'd start  
6 to validate how we're placing people and what  
7 locations. It's going to have to be something  
8 like that.

9 MR. KATZ: And where the facts run  
10 out is where you go to claimant-favorability  
11 as a policy.

12 CHAIRMAN GRIFFON: Right.

13 MR. FARVER: See and I think  
14 that's where I have the issue with this. I  
15 don't think what they did was entirely  
16 claimant-favorable.

17 MEMBER MUNN: But there's always  
18 that tension between claimant-favorability and  
19 reasonable assumptions.

20 DR. ULSH: Well, there's a -- I  
21 mean, this appears to be one of those cases  
22 where we've hashed around, hashed around. At

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1 the end of the day NIOSH and SC&A just can't  
2 come to an agreement.

3 MR. FARVER: And I think what it  
4 comes down to in this case is the PoC is so  
5 low that we finally said well, you're not  
6 going to --

7 DR. ULSH: So I guess you guys  
8 need to maybe say, okay, we've got two  
9 differing opinions, what do we want to do with  
10 this. That's where we are, right?

11 MR. KATZ: I agree.

12 CHAIRMAN GRIFFON: Well, we let it  
13 go at one point in this particular instance,  
14 but I mean I don't think -- I think we've got  
15 enough of these that, you know, it's going to  
16 come up several times more, so.

17 MEMBER MUNN: But especially in  
18 cases where you have two not necessarily  
19 opposing, but differing approaches that can be  
20 taken and in both cases there is a non-  
21 compensable claim in front of you. Then this  
22 is one of those times when it would appear I

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1 think reasonably that arguments about which of  
2 the two is claimant-favorable is moot.

3 MEMBER RICHARDSON: Yes, I mean I  
4 agree with that.

5 CHAIRMAN GRIFFON: For this  
6 particular case, yes.

7 MEMBER RICHARDSON: In particular,  
8 but the kind of general issue --

9 CHAIRMAN GRIFFON: Right.

10 MEMBER RICHARDSON: -- this is a  
11 recurring issue where it affects  
12 reproducibility of results. If we can clarify  
13 a procedure that would be useful.

14 CHAIRMAN GRIFFON: It would  
15 improve reproducibility, yes. But I think we  
16 can let it go on this case. It just caught my  
17 eye.

18 MR. FARVER: And this, it's pretty  
19 detailed. This is back to where you're  
20 looking at the actual DOE records for the  
21 certain dosimeter cycles and it's marked, you  
22 know, Area 3F or such and such so you would

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1 put them in F area and that would be I believe  
2 a neutron dose. Anyway, it goes all back to  
3 it's looking at their dosimeter records and  
4 where they were assigned the dosimeter. And  
5 I've got to tell you, even where they were  
6 assigned the dosimeter is not going to be very  
7 accurate depending on what their job function  
8 was.

9 MEMBER MUNN: No.

10 DR. ULSH: Is this -- I wasn't at  
11 the last Work Group Meeting -- sorry, the last  
12 Board Meeting. I know you guys acted on the  
13 Savannah River petition. Did that action not  
14 supersede this but kind of make it moot? You  
15 guys have already weighed in on it.

16 CHAIRMAN GRIFFON: Yes, it was on  
17 worker location related to thorium, but yes.

18 DR. ULSH: I don't know if the  
19 years.

20 CHAIRMAN GRIFFON: The years I  
21 don't know about, yes, yes. Right.

22 MEMBER RICHARDSON: I don't know

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1 if it makes this moot. That had to do with  
2 definition of a Class but it was over the same  
3 issues of how well could you place people.

4 DR. ULSH: Right. The Class  
5 definition that we proposed was based on  
6 placing people but you guys waited.

7 CHAIRMAN GRIFFON: Well, this is  
8 1985 though. We went through '72 so it  
9 wouldn't completely, you know, resolve that,  
10 but anyway.

11 DR. ULSH: All right.

12 CHAIRMAN GRIFFON: Yes. I mean, I  
13 feel like we closed that one so I don't want  
14 to reopen issues at this point. We do have  
15 the overall theme, it's going to come up again  
16 so we won't lose it. We know particularly for  
17 Savannah River and Y-12 and a couple of others  
18 it's come up many times, so let's just move on  
19 I think at this point.

20 Alright, where was the next?

21 MEMBER RICHARDSON: It's your  
22 fault. You jumped back to it.

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1 (Laughter.)

2 CHAIRMAN GRIFFON: I totally take  
3 the blame. All right, I'll make up for it.  
4 How about we break for lunch now?

5 MEMBER MUNN: Very good. Excellent  
6 plan.

7 CHAIRMAN GRIFFON: Why was I  
8 looking at non-yellow items, you know?

9 MR. KATZ: It's noon, so I guess 1  
10 o'clock.

11 CHAIRMAN GRIFFON: Yes.

12 MR. KATZ: Thanks everyone on the  
13 line. We'll be back at 1.

14 CHAIRMAN GRIFFON: John Mauro, you  
15 should stay on the line, please.

16 DR. MAURO: No lunch for me.

17 CHAIRMAN GRIFFON: No lunch for  
18 you. No soup for you.

19 (Laughter.)

20 MR. KATZ: Thanks everyone.

21 (Whereupon, the foregoing matter  
22 went off the record at 12:00 p.m. and went

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1 back on the record at 1:12 p.m.)

2 MR. KATZ: Good afternoon, this is  
3 the Dose Reconstruction Subcommittee. We're  
4 back. Sorry we're a little bit late. I think  
5 we're ready to go.

6 CHAIRMAN GRIFFON: It said 12  
7 parties.

8 MR. KATZ: Let me just check about  
9 do we have any Board Members on the line? Mike  
10 Gibson or John Poston? No. Okay.

11 CHAIRMAN GRIFFON: Alright, we're  
12 back on the matrix work. And just for  
13 people's schedules I think we'll probably try  
14 to break around 4. I mean, I think usually by  
15 then we're fading out anyway so if we can go  
16 through till 4 we're doing pretty good I  
17 think.

18 MR. HINNEFELD: I have to sit out  
19 for a phone call at 3:30. I was going to do  
20 that anyway and Brant can cover. I mean, he  
21 can take care of stuff.

22 CHAIRMAN GRIFFON: Alright, I know

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1 there's some flights that, you know, I just  
2 want to -- I think by 4 we'll be toasted  
3 anyway. So back on the matrix, 160.1 -- well,  
4 that's actually closed. Oh no, it's not.  
5 160.1 is our next one I guess.

6 MR. FARVER: Is that a fission  
7 product? Oh, this is a case that's been  
8 reworked and we are going to provide you a  
9 report on this case, 160, comparing the  
10 original and then the reworked case to see  
11 what changed. And also it's going to be down  
12 on Tab 175, I believe.

13 CHAIRMAN GRIFFON: So you haven't  
14 done this yet, right?

15 MR. FARVER: Have not. This is  
16 two reports that we owe you, or one report on  
17 two cases.

18 CHAIRMAN GRIFFON: Does this cover  
19 all the findings on 160?

20 MR. FARVER: Yes.

21 CHAIRMAN GRIFFON: It carries  
22 through, right?

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1 MR. FARVER: It'll just be to show  
2 what the differences were between the cases.

3 CHAIRMAN GRIFFON: Alright.

4 MR. KATZ: Will we have that at  
5 the next meeting?

6 MR. FARVER: It depends how much  
7 other things you want. Possibly.

8 CHAIRMAN GRIFFON: It's an action.

9 MR. FARVER: Yes, it is.

10 CHAIRMAN GRIFFON: Okay. Alright,  
11 161.2, I think, is the next one.

12 MEMBER RICHARDSON: So then this,  
13 I'm sorry, 160.1 gets flagged in that category  
14 again?

15 CHAIRMAN GRIFFON: No, 161 is just  
16 a carryover. SC&A is still reviewing it.

17 MEMBER MUNN: But 161.1 is one of  
18 those QA.

19 CHAIRMAN GRIFFON: Oh, I see. I  
20 didn't even look at the particulars because I  
21 think they're going to look at the whole case  
22 again, right?

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1 MR. FARVER: Yes.

2 MEMBER MUNN: Maybe this would be  
3 a good opportunity to stick QA in that  
4 category box.

5 MR. FARVER: You could.

6 CHAIRMAN GRIFFON: 161.2 you mean?

7 MEMBER MUNN: 161.1 is shown  
8 closed.

9 CHAIRMAN GRIFFON: Oh, got it,  
10 yes. I see what you're saying.

11 MEMBER MUNN: As long as we've run  
12 across it.

13 CHAIRMAN GRIFFON: Right. It is  
14 identified as a QA.

15 MEMBER RICHARDSON: And that was  
16 the same with 160.1 also.

17 CHAIRMAN GRIFFON: Yes.

18 MEMBER MUNN: And point 3.

19 CHAIRMAN GRIFFON: Okay, yes. I  
20 still want to go through the whole matrices  
21 and see what we can categorize. And some it's  
22 going to be easier than others it looks like.

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1                   MEMBER MUNN:     Let's do the easy  
2     ones if they already say so.

3                   CHAIRMAN GRIFFON:   161.2 then?

4                   DR. ULSH:     Well, the latest I see  
5     is that's a NIOSH follow-up and we have not  
6     done that yet.

7                   CHAIRMAN GRIFFON:     Alright, how  
8     about 161.3?  It says QA concern.

9                   MEMBER MUNN:     NIOSH action.

10                  DR. ULSH:     No, we haven't done  
11     that yet.

12                  CHAIRMAN GRIFFON:     Okay.     And  
13     moving on down.

14                  DR. ULSH:     What's the next one?

15                  CHAIRMAN GRIFFON:     I'm     just  
16     scanning some of the non-yellow ones.  What is  
17     the next one?

18                  MR. FARVER:     165.3.

19                  CHAIRMAN GRIFFON:     165.3, yes.  And

20     --

21                  MR. FARVER:     NIOSH was going to  
22     check the workbook, see why it was dividing by

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1 1.6.

2 CHAIRMAN GRIFFON: Yes. Examine  
3 the tool that determined why the factor of 1.6  
4 is used.

5 DR. ULSH: Wait, that was 7/23 and  
6 under that there's another entry 4/18/11.

7 MR. FARVER: Right.

8 CHAIRMAN GRIFFON: Yes, at the  
9 very bottom of that last entry it says NIOSH  
10 will examine the total to determine why the  
11 factor 1.6 is used.

12 DR. ULSH: That's not in yellow.

13 MEMBER MUNN: No, it isn't. It  
14 doesn't count, not in yellow.

15 (Laughter.)

16 CHAIRMAN GRIFFON: Sorry. Good  
17 point. Alright, we'll skip that one. No. I  
18 didn't carry through my yellow, sorry about  
19 that.

20 DR. ULSH: Looks like that's  
21 another outstanding.

22 CHAIRMAN GRIFFON: That's still

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1 outstanding, is that what you're saying?

2 DR. ULSH: Yes.

3 CHAIRMAN GRIFFON: Alright. I  
4 mean, is there an easier way to do this? Do  
5 you know any coming up that do have? Oh okay,  
6 you've got, okay. 165.4?

7 MR. FARVER: 165.4, okay. This  
8 was an INEL case and the finding concerned the  
9 neutron missed skin dose calculations were in  
10 error. We've been through a couple of  
11 iterations of this and I believe this is a  
12 workbook issue. And --

13 CHAIRMAN GRIFFON: So you're  
14 saying you reviewed, the last part says NIOSH  
15 and SC&A will review to see if it's case-  
16 specific or workbook, right? Or broader  
17 potential.

18 MR. FARVER: My notes here says  
19 it's the workbook and the correction factor  
20 was only applied to the skin dose and was not  
21 used for the bladder dose.

22 MEMBER MUNN: This is in the best

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1 estimate complex-wide external dose tool.  
2 Looks like everybody needs another look-see.

3 CHAIRMAN GRIFFON: Are you saying  
4 this is your update, Doug, that you looked at  
5 it?

6 MR. FARVER: Yes. And, well, one  
7 part of it is that, let's see. Yes. If you  
8 look up in there the one response, the latest  
9 response SC&A points out that I believe the  
10 correction factor was not applied to the  
11 bladder. That's kind of what it comes down  
12 to. It was applied to the skin dose, was not  
13 applied to a bladder dose.

14 CHAIRMAN GRIFFON: I don't see  
15 that.

16 MR. FARVER: Well, in other words  
17 they didn't apply the correction factor to  
18 both doses.

19 CHAIRMAN GRIFFON: No, I  
20 understand what you're saying. I don't see it  
21 in the matrix though.

22 MR. FARVER: It's up there.

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1 DR. ULSH: Page 53 of 107. I  
2 think.

3 MR. FARVER: 165.4.

4 MEMBER MUNN: On my copy it starts  
5 on page 50 and then goes to page 51.

6 CHAIRMAN GRIFFON: 165.4 this is.

7 MR. FARVER: Yes.

8 MEMBER MUNN: -E-3-1.

9 CHAIRMAN GRIFFON: I see the entry  
10 on 4/11 that I have is NIOSH determined that  
11 it should use the correction factors from  
12 missed doses and measured dose. See TBD.

13 MEMBER MUNN: Keep going.

14 CHAIRMAN GRIFFON: SC&A points  
15 out... Okay, I didn't see bladder in there.  
16 Okay, sorry. So you think that they didn't,  
17 it's not in the tool itself is what you're  
18 saying. The correction factor.

19 MR. FARVER: Correct. I believe  
20 it's a workbook error.

21 CHAIRMAN GRIFFON: Yes.

22 MR. FARVER: Now, we probably

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1 should both take a look at it again.

2 CHAIRMAN GRIFFON: Okay.

3 MR. FARVER: I would --

4 MEMBER MUNN: NIOSH is saying they  
5 got it out of the best estimate -- complex-  
6 wide external.

7 CHAIRMAN GRIFFON: I mean, Scott,  
8 you don't have anything on this, do you?

9 MR. SIEBERT: We're, Matt Smith  
10 and I are actually going back and forth  
11 looking at this and I think we need to, I  
12 think we have an idea as to what the actual  
13 issue is but I don't want to speak on it, I  
14 want to go ahead and hammer it out before the  
15 next meeting. We'll have something for the  
16 next meeting.

17 CHAIRMAN GRIFFON: Fair enough.  
18 Alright, so I said NIOSH and SC&A will look  
19 further at this.

20 MR. FARVER: Okay.

21 CHAIRMAN GRIFFON: Alright. Then  
22 next, you tell me the next one you have

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1 something on, either one of you, NIOSH or  
2 SC&A.

3 MEMBER MUNN: The very next one.

4 CHAIRMAN GRIFFON: Next one? Okay.

5 DR. ULSH: It says NIOSH to  
6 provide final PoC determination to  
7 Subcommittee along with all 30 IREP run  
8 values. Scott, did we do this?

9 MR. SIEBERT: I can't speak to  
10 that because you guys handled the 30 run  
11 stuff. Sorry.

12 DR. ULSH: All right. We'll get  
13 it for you for the next meeting.

14 CHAIRMAN GRIFFON: Did you receive  
15 this? Do you know, Doug, yet?

16 MR. FARVER: No.

17 CHAIRMAN GRIFFON: Okay, all  
18 right. So that's still outstanding. All  
19 right, how about 166.6.

20 MR. FARVER: NIOSH will verify all  
21 doses, verify that all additional doses  
22 identified in the case planning were addressed

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1 and whether outcome was affected. I don't  
2 think they have a response yet on that one.  
3 And that would bring us down to 167.3.

4 CHAIRMAN GRIFFON: Okay.

5 MR. FARVER: Which comes back to  
6 unmonitored neutron doses again. We've been  
7 through this several times as you can see in  
8 the resolution column. And NIOSH provided a  
9 response in April and I reviewed that and I  
10 concurred with their response.

11 MR. SIEBERT: I'm sorry, this is  
12 Scott. Doug, I can barely hear you.

13 MR. FARVER: That's because I'm  
14 just playing out and I'm really quiet. I'll  
15 speak up.

16 (Laughter.)

17 MR. FARVER: Basically you folks  
18 gave a response back in April and then I  
19 reviewed it and I agree with your response  
20 from April.

21 MR. SIEBERT: I like to hear that.  
22 Which number was it?

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1 MR. FARVER: Oh yes.

2 CHAIRMAN GRIFFON: 167.3.

3 MR. SIEBERT: Okay, thank you.

4 MEMBER MUNN: And E-2-3.

5 CHAIRMAN GRIFFON: Now, can you  
6 explain was this a worker location thing?

7 MR. FARVER: I'm trying to find  
8 out which site it was.

9 CHAIRMAN GRIFFON: Yes. It's not  
10 obvious which site.

11 MEMBER MUNN: Just failed to  
12 consider unmonitored neutron dose.

13 MR. FARVER: I thought it would be  
14 a Savannah River.

15 MR. HINNEFELD: It's Savannah  
16 River.

17 CHAIRMAN GRIFFON: It is Savannah  
18 River. I mean, is this another subjective  
19 sort of, or was there firm evidence in this  
20 case? I think we need to.

21 MR. FARVER: Okay. You want more,  
22 okay.

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1 CHAIRMAN GRIFFON: Yes.

2 MR. FARVER: Well, without going  
3 back and finding out exactly what their  
4 response was.

5 DR. ULSH: So it's 167.3?

6 MR. FARVER: Yes.

7 DR. ULSH: Scott, do you recall  
8 what our response was on 167.3? Do you have  
9 it handy, by chance?

10 MR. SIEBERT: I'm actually digging  
11 for that right now. Just a second.

12 DR. ULSH: Okay.

13 MR. FARVER: I mean, it's one of  
14 these having to do with worker location.

15 MEMBER MUNN: Partly.

16 MR. SIEBERT: I have 166 and 168.

17 Can we just average those?

18 (Laughter.)

19 MEMBER MUNN: It's partly that but  
20 not, not specifically that.

21 DR. ULSH: It looks like we  
22 provided it on April 15th if that helps.

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1                   MEMBER MUNN:        It's unmonitored  
2       neutron dose.

3                   CHAIRMAN GRIFFON:    So this TIB-7  
4       goes back to the one we were discussing  
5       earlier, right?

6                   MEMBER MUNN:    Right.

7                   CHAIRMAN GRIFFON:    Yes.

8                   MEMBER MUNN:        Missed dose was  
9       greater than the recorded photon dose which  
10      would indicate the employee was not routinely  
11      exposed. Then it's saying missed neutron dose  
12      would be excessively unrealistic. It wasn't  
13      signed in accordance with TIB-7.

14                  MR. SIEBERT:    For some reason I'm  
15      not seeing it either. I'm with Brant and  
16      Doug, I know we did and I know Doug was going  
17      to look at it and I just can't put my finger  
18      on it at the moment.

19                  CHAIRMAN GRIFFON:    Yes, I think we  
20      need to at least explain your difference in --  
21      because your position's pretty strong here in  
22      the, you know. Based on the location along

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1 with the CATI information SC&A believes  
2 unmonitored period should be assigned.

3 MR. HINNEFELD: Okay, I've got the  
4 April 2011 response we sent. I can read it.

5 CHAIRMAN GRIFFON: Sure.

6 MR. HINNEFELD: Okay. The  
7 assignment of neutron dose for early years of  
8 employment at SRS often requires some judgment  
9 on the part of the dose reconstructor. The  
10 decision to include or not include neutron  
11 dose is based on many factors including but  
12 not limited to the employee's occupation, work  
13 location, dosimetry records and guidance in  
14 the Technical Basis Document and Technical  
15 Information Bulletin.

16 In general, the guidance of OCAS  
17 TIB-7 is followed when making this  
18 determination as it was created specifically  
19 to help the dose reconstructor determine when  
20 to apply neutron dose when no dosimeter  
21 results are available. The latest SC&A  
22 response indicated that OCAS TIB-7 was issued

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1 two years after the dose reconstruction was  
2 completed. However, it was the revision that  
3 was issued two years after the dose  
4 reconstruction. The original version was  
5 issued 9/17/2003, well before the assessment.  
6 The sections addressing the action areas were  
7 consistent between revisions. As stated in  
8 the SC&A response OCAS TIB-7 indicates that a  
9 claimant-favorable approach with particular  
10 attention to the information in Section 2.2.1  
11 should be applied. None of the conditions  
12 specified in Section 2.2.1 are met for this  
13 claim in that there is no neutron monitoring  
14 in 1971 or later, no documentation of use of  
15 the 17 keV calibration curve for shallow dose  
16 and no neutron monitoring in any of the  
17 dosimetry records that are available. The  
18 potential for neutron exposure therefore  
19 relies on the employee's work location/job. He  
20 was apparently employed at the P-reactor for  
21 some or all of his employment and the reactors  
22 are known to be facilities where workers can

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1 potentially receive dose from neutron  
2 radiation.

3 Section 2.2.2 of OCAS TIB-7  
4 discusses the potential for neutron dose at  
5 specific areas of Savannah River Site  
6 including the reactor facilities. It  
7 describes the types of occupations for which  
8 neutron dose should be assigned. These  
9 occupations are maintenance crafts or  
10 individuals responsible for radiation  
11 monitoring in the workplace such as  
12 radiological control technicians. As an  
13 engineer, the employee's occupation does not  
14 match the types specified in OCAS TIB-7. The  
15 work he noted in his CATI related to technical  
16 engineering of uranium slugs. Electroplating  
17 is mentioned. This does not seem to indicate  
18 exposure to neutrons in the reactor area.  
19 Therefore, since none of the criteria  
20 specified in Sections 2.2.1 and 2.2.2 are met  
21 neutron doses are not indicated for the  
22 employee even though he worked in a facility

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1 where the potential for neutron dose existed.

2 CHAIRMAN GRIFFON: I think this is  
3 a great example. I'm wondering if we're being  
4 too prescriptive in, or NIOSH is being a  
5 little too prescriptive in their guidelines. I  
6 mean, you have an individual that worked at  
7 the facility who apparently would have a  
8 recorded photon dose and you're trying to  
9 determine who within that facility had the  
10 potential?

11 MR. HINNEFELD: Yes, I'm not an  
12 expert in Savannah River but as I understand  
13 it the operation, the reactors as they sit  
14 there and ran, you know, they're water-  
15 reflected. Not necessarily heavy water, but  
16 they're water-cooled and water-moderated  
17 reactors. There's essentially by the design  
18 of the reactors essentially no neutron dose  
19 around an operating reactor unless you're in  
20 an exposure port or something like that. And  
21 that there was a particular bay where it was  
22 constructed such that there was some neutron

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1 exposure in that bay and that's where the  
2 maintenance crafts worked. And then the  
3 people who would survey for maintenance would  
4 do that as well. And so I remember TIB-7 is  
5 pretty specific about yes, there were  
6 reactors, of course there were neutrons in the  
7 reactors but there really wasn't neutron  
8 exposure potential in the bulk of the  
9 workforce. There was just this one area where  
10 the maintenance guys worked where it was and  
11 that's why maintenance people and people who  
12 do radiation surveys made it in here because  
13 they would be there measuring radiation levels  
14 and maybe working in that area. But other  
15 people who may have worked on the reactor  
16 would have been in the other part of the work  
17 area and not exposed to neutrons. That's the  
18 reasoning in TIB-7. I only know it because I  
19 read TIB-7. I've got no prior knowledge about  
20 the situation at Savannah River. And I  
21 believe that's what was presented.

22 MR. FARVER: That response is very

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1 thorough and follows, you know, TIB-7 exactly.  
2 In that instance they follow it exactly so  
3 that's why we agree with their response.

4 DR. MAURO: This is John. Do we  
5 have a Site Profile issued here whereby we may  
6 not agree and that the exposures are that  
7 constrained?

8 MR. HINNEFELD: Well, it would be  
9 a TIB-7 issue.

10 DR. MAURO: Oh, our TIB-7 issue.  
11 That might be what we have here. I can't  
12 speak to the status of our review of TIB-7 and  
13 whether this issue came up or not. But it  
14 does sound like that, you know, if there's  
15 reason to believe that it's not that  
16 constrained you could see why one person would  
17 make one judgment and another a different one.  
18 Anyway...

19 CHAIRMAN GRIFFON: Yes, I was also  
20 thinking of that whole issue of placing  
21 people. I mean, if an engineer as defined by  
22 that job type would have never been in those

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1 locations, you know, Stu's argument seems  
2 reasonable, you know. But I'm wondering how  
3 much we can rely on the job titles. Maybe in  
4 this case we can.

5 MR. FARVER: According to TIB-7  
6 there's just certain occupations that would be  
7 in the area and that's not one of them.

8 MR. KATZ: They had the interview  
9 too. I don't know what the interview results  
10 were. Is this an employee or a survivor case?

11 MR. FARVER: I'd have to go back  
12 and find the CATI.

13 CHAIRMAN GRIFFON: It seemed to  
14 say, the CATI, if I heard Stu's reading of  
15 that answer correctly was saying he worked in  
16 other areas, right? Based on the CATI I  
17 thought it said something about --

18 MR. HINNEFELD: The CATI talks  
19 about electroplating of uranium metal slugs  
20 which I would think would be 300 Area but I  
21 could be wrong.

22 CHAIRMAN GRIFFON: So it's silent

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1 on this.

2 MR. HINNEFELD: Yes.

3 MEMBER MUNN: I would imagine with  
4 that much detail in all probability it's a  
5 living claimant.

6 MR. HINNEFELD: Actually, John  
7 Mauro, the TIB-7 did in fact review this.

8 CHAIRMAN GRIFFON: I was going to  
9 ask that, yes.

10 MEMBER MUNN: I was going to try  
11 to find that. I thought we'd looked at TIB-7  
12 very thoroughly.

13 MR. HINNEFELD: It did and made a  
14 finding saying that guidance does not specify  
15 all occupations that may involve neutron  
16 exposure at SRS which seems to be the exact  
17 issue --

18 CHAIRMAN GRIFFON: So it's already  
19 on the table, right?

20 MR. HINNEFELD: Well, the finding  
21 is closed.

22 MEMBER MUNN: I think we closed

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1 it. We referred it back.

2 CHAIRMAN GRIFFON: The Savannah  
3 River group. No, I'm just teasing.

4 MR. HINNEFELD: Well, here's the  
5 thing. The finding of -- the resolution of  
6 the finding was to revise TIB-7 to clarify or  
7 cancel TIB-7 and provide a new program for the  
8 TBD. So in other words, revise TIB-7 to make  
9 it clearer or cancel TIB-7 and put that  
10 guidance in the Site Profile.

11 CHAIRMAN GRIFFON: Site Profile,  
12 right.

13 MR. HINNEFELD: And then the  
14 closing statement is SC&A's review of Rev 1 of  
15 TIB-7 found that NIOSH satisfactorily  
16 accommodate SC&A's finding, no further action  
17 is required. So Rev 1 --

18 CHAIRMAN GRIFFON: So you accepted  
19 the way they clarified.

20 MR. HINNEFELD: Now, I don't know  
21 what rev I remembered from and I don't know  
22 what rev this dose reconstruction was done

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1 with. And I don't know if we prepared this  
2 dose reconstruction to Rev 1. So I mean, to  
3 be consistent if we were going to say well,  
4 Rev 1 has been deemed okay, you know, the  
5 thing now would be to say was this DR done  
6 with Rev 1 or was it done with Rev 0 in which  
7 case you would have to see if it's still okay  
8 with Rev 1. Does that make sense? It's  
9 making my head hurt.

10 CHAIRMAN GRIFFON: You don't know,  
11 Doug, which one this fell under by any chance?

12 MR. FARVER: No, but I could go  
13 back and check the files and see what one was  
14 referenced.

15 MEMBER CLAWSON: You don't know  
16 what the changes to OTIB-0007 were?

17 MR. HINNEFELD: Well, I see what I  
18 can find. I have a wealth of information at  
19 my fingertips if I can figure out how to get  
20 there.

21 MS. BEHLING: Excuse me, Kathy  
22 Behling. This dose reconstruction was done --

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1 or NIOSH did the dose reconstruction in  
2 December of 2005 and the OTIB-0007 was revised  
3 in October of 2007. So this was not done  
4 under Revision 1. And the description for  
5 Revision 1 says, "Clarification of locations,  
6 occupations and time periods for which this  
7 TBD applies."

8 DR. MAURO: This is John. I would  
9 like to add an overarching issue which I think  
10 goes to our opening discussion, and it could  
11 be very important. When you get to the point  
12 where trying to resolve something at this  
13 level of precision and it goes against the  
14 claimant I think this really gets to the heart  
15 of some of these fundamental concepts and  
16 concerns raised in the 10-year review. You  
17 know, do we want to operate at a level of  
18 assumption regarding job title, job location,  
19 et cetera, et cetera that goes to this level  
20 of granularity? And I think that is really  
21 the core question here because when you get to  
22 this point where we are now you're really in

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1 an impossible situation. Certainly both the -  
2 - do you look for weight of evidence that is  
3 overwhelming, that no, it's really out of the  
4 question that this person could have ever had  
5 some neutron exposure. If you're looking for  
6 that then you sort of have to assign this  
7 person some neutron exposure because, you  
8 know, it's a fine judgment we're making here.  
9 Anyway, I bring this up only because I think  
10 this goes to the heart of one of these  
11 overarching issues that we've been talking  
12 about.

13 CHAIRMAN GRIFFON: Yes, no, this  
14 definitely is the overarching issue, but I  
15 also get the sense that in this particular  
16 case it was fairly well defined. I mean, I  
17 don't dispute that that issue still exists,  
18 but in this case it seems like a pretty strong  
19 rationale.

20 MR. FARVER: The rationale they  
21 gave which is from Rev 1 of TIB-7, I believe,  
22 was what was done. Now, I don't have Rev 0 of

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1 TIB-7 so I don't know what was in TIB in the  
2 Rev 0, but according to the current TIB-7, it  
3 was done under that guidance.

4 CHAIRMAN GRIFFON: Right, right.

5 MR. HINNEFELD: If you want to do  
6 that analysis, I can find it and forward to  
7 you the Rev 0 if you would like. I don't  
8 think we should do it in a meeting.

9 CHAIRMAN GRIFFON: I think we have  
10 to close this one. And I don't, I'd be  
11 shocked if this issue doesn't come up again so  
12 I think we need to close it for this specific  
13 case. Hearing no other objections, I'll close  
14 it.

15 MR. FARVER: In this case, they  
16 may not have followed the exact wording of Rev  
17 0 which, to correct it, you would add more job  
18 titles and so forth which apparently is what  
19 was added to Rev 1.

20 CHAIRMAN GRIFFON: Yes. Right.  
21 That would be the action anyway, so yes, yes.

22 MR. FARVER: Yes.

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1                   CHAIRMAN GRIFFON:       So I don't  
2 think leaving it open gets us anywhere so I  
3 think we close it. Yes.

4                   DR. ULSH: 167.3 is --

5                   CHAIRMAN GRIFFON:       Closed. Now  
6 that next one is just probably a note from me  
7 on where the response is. Check CDC email. So  
8 I'll make that clearer. Not yellow. All  
9 right, 168.7.

10                  MR. FARVER: 168.4, don't we -- or  
11 is that closed?

12                  CHAIRMAN GRIFFON:       I have that  
13 closed unless I made a mistake.

14                  MR. FARVER: Okay.

15                  CHAIRMAN GRIFFON:       Do you have it  
16 open?

17                  MR. FARVER: I'm in the wrong  
18 spreadsheet. I'm in the wrong matrix.

19                  CHAIRMAN GRIFFON:       Alright, 168.7.  
20 Looks like a Mound.

21                  DR. ULSH: T-building, must be  
22 Mound.

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1                   MR. FARVER:     We reviewed their  
2     April response and we agree with what they  
3     did, which, we should have their response  
4     there. So we're in agreement with the April  
5     response.

6                   MEMBER MUNN:     That it can be  
7     closed.

8                   MR. FARVER:     Yes.

9                   CHAIRMAN GRIFFON:     Can you just  
10    tell us what this was about real quickly?

11                   MR. FARVER:     Briefly, this goes  
12    back to when they did their dose assessments  
13    at Mound previously, and instead of doing a  
14    detailed assessment for everyone I think they  
15    went in and used a sample result equal to the  
16    decision level and calculated a minimum dose  
17    from that and assigned it. So I do not  
18    believe this employee actually did have a  
19    plutonium sample, it was just one that was  
20    assigned for dose assessment. Scott, was it  
21    something to that effect?

22                   MR. SIEBERT:     Yes, that sounds

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1 about right.

2 MR. FARVER: So, it wasn't that he  
3 worked in a plutonium area and had a plutonium  
4 bioassay and all this; it just was a method of  
5 expediting their dose assessments back when  
6 they did them, the '80s? '90s?

7 MEMBER MUNN: Eighties, I thought,  
8 but maybe not.

9 MR. FARVER: So that can close.

10 CHAIRMAN GRIFFON: So, I mean,  
11 well, this may be drilling down a bit far but  
12 why were they assigning plutonium dose then  
13 with the previous method? There must have  
14 been some rationale.

15 MR. FARVER: There was some letter  
16 stating due to the scope of the project,  
17 exposure investigations were not conducted as  
18 part of these assessments. I think it was  
19 just a way to get through it quickly.

20 CHAIRMAN GRIFFON: Okay. But  
21 you're okay with what the --

22 MR. FARVER: Yes.

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1 CHAIRMAN GRIFFON: -- their  
2 explanation. Anybody follow up on that one?

3 MEMBER MUNN: Looks like it's  
4 covered.

5 CHAIRMAN GRIFFON: I think I'm  
6 okay with it. I mean, I do remember the DR  
7 project and they did do some screening, right?

8 MR. FARVER: Yes.

9 CHAIRMAN GRIFFON: So I could see  
10 that.

11 MR. FARVER: So this was mid-'90s.

12 MEMBER MUNN: Was it?

13 MR. FARVER: I think so.

14 DR. ULSH: Oh, are you talking  
15 about the MJW pre-1989 dose requirements?

16 CHAIRMAN GRIFFON: Right.

17 MR. FARVER: Is this the pre or  
18 the --

19 CHAIRMAN GRIFFON: Yes.

20 MR. FARVER: The dose is from pre-  
21 1989.

22 MR. HINNEFELD: The dose is from

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1 pre-1989. They did it I think in '90.

2 MR. FARVER: Yes.

3 DR. ULSH: The late '90s and I  
4 think it was issued in 2000.

5 MR. FARVER: I believe that's what  
6 all this was from.

7 DR. ULSH: Alright, I don't know  
8 that I have a more clear answer for you.

9 CHAIRMAN GRIFFON: We really  
10 should know what the report is, yes.

11 MEMBER MUNN: 170.2?

12 CHAIRMAN GRIFFON: Where are we,  
13 Wanda, 170.2?

14 MEMBER MUNN: I believe.

15 CHAIRMAN GRIFFON: Okay.

16 MR. FARVER: Okay, let's see if I  
17 can explain this one. Started off with a  
18 finding of failing to consider or assign  
19 unmonitored and missed neutron doses for 1947  
20 to '51 and '62 to '88. And this is going to  
21 be X-10.

22 CHAIRMAN GRIFFON: And Y-12 or

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1 just X-10? I see both mentioned.

2 MR. FARVER: I see both names.  
3 Okay. You can go down and read through the  
4 NIOSH responses there in yellow, and when you  
5 get down to the last one which was in April  
6 and NIOSH concludes, the individual should not  
7 have been assigned neutron dose. Guidance  
8 included in ORAU OTIB-23.

9 And I went back and looked at  
10 OTIB-23 and they did follow that guidance.  
11 However, there is, from Section 6 of that OTIB  
12 it also says, if the above condition is met  
13 concerning the missed dose not being assigned,  
14 then dose reconstructors should include  
15 appropriate explanatory language in the dose  
16 reconstruction report. This should include a  
17 discussion in the DR report of the available  
18 information regarding work locations and the  
19 rationale for the conclusion that neutron  
20 doses could not have exceeded incidental  
21 levels. In other words, if you're going to  
22 claim it's OTIB-23 and there was no potential

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1 then you have to put that explanation in there  
2 for that assumption, which was not done, but I  
3 mean it's good, it's a good thing to do. So  
4 that was my only comment on the response. They  
5 did follow OTIB-23 except for the section that  
6 says if you're going to not assign the missed  
7 dose then you better explain why.

8 DR. ULSH: So with the further  
9 explanation that was not included in the DR  
10 that we provided and you are in agreement with  
11 our decision not to, but we should have put  
12 that explanation in the DR?

13 MR. FARVER: Yes.

14 DR. ULSH: Okay.

15 MEMBER MUNN: Then it can be  
16 closed.

17 MR. FARVER: And actually I think  
18 that's probably a good practice for a lot of  
19 these cases on this neutron dose was to write  
20 down your justification for not doing it.

21 CHAIRMAN GRIFFON: Right.

22 MEMBER MUNN: Put the statement

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1 in.

2 CHAIRMAN GRIFFON: Right.

3 MEMBER MUNN: 171.2?

4 MR. FARVER: Yes.

5 MEMBER MUNN: More unmonitored  
6 missed neutron dose.

7 MR. FARVER: More unmonitored  
8 neutron dose. NIOSH failed to assign  
9 unmonitored and missed neutron dose for 1965  
10 to '89.

11 MEMBER MUNN: An overestimating  
12 practice.

13 MR. KATZ: Is this 171.4?

14 MR. FARVER: 171.2.

15 CHAIRMAN GRIFFON: Can I say for  
16 that last one, I was still typing on that last  
17 one but that NIOSH agrees that the information  
18 should have been included, the extra  
19 information? I mean I think that's, just so  
20 we can close it. The decision was right but  
21 they should have had the explanation. Yes,  
22 alright.

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1                   MR. FARVER:     And for 171.2, the  
2     employee was the senior engineer draftsman in  
3     design technology at ORNL from '56 through  
4     1989. Various work locations throughout ORNL.  
5     And neutron dose was assigned, or missed  
6     neutron dose was assigned for the period up  
7     through 1974 but not for the period after.

8                   MEMBER     MUNN:             It's     an  
9     overestimate.

10                  MR.     FARVER:            And     that     was  
11     basically the finding that they did not assign  
12     it for the years of the after-74.

13                  MEMBER MUNN:     From '74 to '89.

14                  MR. FARVER:     Through '89.

15                  MEMBER MUNN:     And they say that it  
16     wasn't included because of the work location  
17     and no positive data.

18                  DR.     ULSH:     Well, it looks to me  
19     like we did assign it up through '74.

20                  CHAIRMAN GRIFFON:   Up through '74,  
21     right.

22                  MR. FARVER:     Up through '74.

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1 DR. ULSH: I think SC&A's  
2 question, if I can paraphrase --

3 CHAIRMAN GRIFFON: Right. Why  
4 before.

5 MR. FARVER: Why not after.

6 CHAIRMAN GRIFFON: Right.

7 DR. ULSH: And our explanation,  
8 such as it is, says that this was an  
9 overestimate and you shouldn't take, more or  
10 less, evidence having -- you shouldn't take  
11 the fact that we assigned it prior to '74 as  
12 evidence of neutron exposure. That was an  
13 overestimating thing that we did. Is that,  
14 does that sound like what we're saying here?

15 MR. FARVER: Yes.

16 CHAIRMAN GRIFFON: Yes.

17 DR. ULSH: Now, that brings us to,  
18 do you agree with that.

19 MR. FARVER: No. I mean, if it is  
20 an overestimate and if there is still some  
21 discrepancy about the work locations after  
22 that time period, why won't you go the

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1 claimant-favorable route and say well, you  
2 know, he should be assigned something through  
3 here? I don't think it's exactly clear where  
4 the employee worked when. I think there is  
5 some question about work locations, but the  
6 work locations that are mentioned are --

7 CHAIRMAN GRIFFON: The same before  
8 and after that time period.

9 MR. FARVER: There are ones that  
10 could have neutrons, potential for neutrons.  
11 And in our original review, we put a table in  
12 there from, it looks like it's the TBD,  
13 listing places that should have neutron doses  
14 and when they have them. So, our feeling is  
15 if the employee's time period fits into that  
16 table that's already published then you should  
17 go ahead and assign a neutron dose for that  
18 period.

19 MEMBER MUNN: And it looks like  
20 the NIOSH position is, if I can paraphrase it,  
21 that job description and lack of any neutron  
22 monitoring would lead one to believe --

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1 DR. MAURO: This is John. To  
2 close the circle on this I guess we would have  
3 expected some language saying what changed  
4 after 1974 that said well, we'll grant them  
5 something pre-'74 but it would be pushing it  
6 to its extreme to go post-'74 and I guess  
7 there's no language in here explaining what  
8 might have changed.

9 MR. SIEBERT: Well, this is Scott.  
10 In the response we gave in April, it stated in  
11 the final paragraph in this response the  
12 reason the missed neutron dose was not  
13 assigned starting in '75 is because all photon  
14 doses were zero, no neutron monitoring was  
15 performed and the EE's job description would  
16 not support neutron exposure or monitoring.

17 DR. MAURO: And that was different  
18 than what was pre-'74.

19 MR. SIEBERT: Pre-'74, if I  
20 remember correctly, I'd have to go back and  
21 look, but there, I believe there were positive  
22 photons so the dose reconstruction just said

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1 we'll just kind of overestimate and throw it  
2 in there, if I remember correctly.

3 DR. MAURO: Well, that seems to be  
4 the key. I mean, what I just heard was there  
5 was a rationale for making that switch at that  
6 date, and it is written up. Doug, I hate to -  
7 - I mean, it sounds like there is some  
8 justification. Would you feel that that  
9 justification does the trick?

10 MR. FARVER: Gosh. I remember  
11 reading it and I remember thinking that's not  
12 very good, but --

13 DR. MAURO: No, that's important,  
14 you know. We have to be comfortable with  
15 this.

16 MR. FARVER: I'll work on number  
17 two, so.

18 CHAIRMAN GRIFFON: Do you want to  
19 look at the 4/15 response? I mean --

20 MR. FARVER: That's what I've got  
21 here. It pretty much says what Scott did.

22 CHAIRMAN GRIFFON: Okay.

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1                   MR. FARVER:    It wasn't in the job  
2                   description and --

3                   CHAIRMAN GRIFFON:    But were the  
4                   buildings different or the same?

5                   MR. FARVER:    And I can go back to  
6                   the original report that we wrote and it says  
7                   the DOE records nor the CATI were very time-  
8                   specific concerning work locations or job  
9                   functions.

10                  CHAIRMAN GRIFFON:    Right.

11                  MR. FARVER:    Now, we can go back  
12                  and say that this person was a senior engineer  
13                  draftsman    in    design    technology,    yes,  
14                  technologist.   Now, does that fall into one of  
15                  these people that should be going into these  
16                  reactor areas?

17                  MEMBER MUNN:    No.

18                  DR. ULSH:    Well, it seems to me  
19                  that certainly a draftsman could go into those  
20                  areas.    I mean, it's a generic category.    The  
21                  question is, could a draftsman with no  
22                  recorded gamma dose plausibly make the case

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1 that he should have been assigned a neutron  
2 dose. That seems to be the crux of our  
3 argument and I don't know how you guys feel  
4 about that.

5 MEMBER MUNN: If you don't have  
6 any photon dose then how can you work on the  
7 assumption that you need to be assigned a  
8 neutron dose?

9 MR. FARVER: Okay. I will go back  
10 and give a better response on that one.

11 MEMBER MUNN: Okay.

12 MR. FARVER: Just because what I  
13 have written here seems like I was pretty  
14 convinced at the time that I didn't agree with  
15 it.

16 MEMBER MUNN: Okay.

17 CHAIRMAN GRIFFON: Alright, 171.3.

18 DR. ULSH: It looks -- I mean, I'm  
19 just reading what's in the matrix here, 171.3.

20 CHAIRMAN GRIFFON: Oh, that's the  
21 full case we're asking for, right? So I think  
22 there's agreement on this specific finding.

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1 MR. FARVER: Yes.

2 CHAIRMAN GRIFFON: But then we're  
3 asking for the impact on the overall case from  
4 all the findings. I think that was the  
5 action, Brant.

6 DR. ULSH: Okay, well unless Scott  
7 corrects me, I'm pretty sure that we have not  
8 done that, but what I'm wondering is, doesn't  
9 171.2 need to be resolved before that can be  
10 done?

11 CHAIRMAN GRIFFON: Yes.

12 MR. SIEBERT: Yes, I would say  
13 everything we've done up till this point --

14 CHAIRMAN GRIFFON: You've done  
15 what you can do.

16 MR. SIEBERT: -- everything. But  
17 unless, if 171.2 gets resolved differently  
18 then presently, at best that throws what we  
19 did out the window.

20 MEMBER MUNN: Yes.

21 CHAIRMAN GRIFFON: Right.

22 MR. FARVER: That depends on --

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1 CHAIRMAN GRIFFON: Yes.

2 MEMBER RICHARDSON: I think this  
3 again is a QC category. 171.3 is omission of  
4 entering data.

5 CHAIRMAN GRIFFON: Yes. Right,  
6 another QA/QC. Yes. All right, 171.4.

7 DR. ULSH: Sorry, my computer's  
8 acting up. I hope you're not waiting on me.

9 CHAIRMAN GRIFFON: This is a long  
10 one. NIOSH provided a response 4/15. SC&A  
11 will review. And the answer is?

12 MR. FARVER: Let me go back to  
13 original finding.

14 MEMBER MUNN: Didn't assign  
15 coworker doses correctly for unmonitored  
16 years.

17 MR. FARVER: You know, for some  
18 reason, I've missed these 171s. Not all of  
19 them, just some of them.

20 CHAIRMAN GRIFFON: So it's a  
21 question of coworker versus environmental  
22 being assigned during some years, right?

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1           MR. FARVER: Yes, it gets kind of  
2 messy. I guess it comes down to, when do you  
3 use coworker data. This is going to be a  
4 question of when to use coworker data. And in  
5 the response that NIOSH gave for this finding,  
6 they quote a sentence out of OTIB-34 that  
7 says, in such cases, data from coworkers may  
8 be used to approximate individuals' possible  
9 exposure. The word may allows the DR to  
10 subjectively make a decision to apply or not  
11 apply the coworker intakes according to other  
12 information. So, this comes down to, well, it  
13 depends on the person looking at it.

14           CHAIRMAN GRIFFON: Right.

15           MR. FARVER: Do you apply coworker  
16 data or do you just go with environmental  
17 data?

18           MEMBER MUNN: Do we have NIOSH's  
19 response to that?

20           MR. FARVER: That was NIOSH's  
21 response saying that they could use when they  
22 choose to.

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1 MEMBER MUNN: On the 15th.

2 MR. FARVER: And they chose not  
3 to.

4 MEMBER MUNN: That's their April  
5 response.

6 DR. ULSH: Well, it's not quite  
7 that --

8 (Laughter.)

9 MR. FARVER: Well, I didn't say  
10 you didn't have reason for not doing it, I  
11 just said you chose not to.

12 MEMBER MUNN: Do we have your 4/15  
13 response?

14 DR. ULSH: Yes, it's in the  
15 matrix.

16 MEMBER MUNN: Oh, is that the  
17 14th? Oh. Way, way down. The very last  
18 thing.

19 DR. ULSH: Oh, it says NIOSH's  
20 response.

21 MEMBER MUNN: It says you provided  
22 a response on 4/15 but --

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1 DR. ULSH: You're right.

2 MEMBER MUNN: And that SC&A would  
3 review it, but.

4 MR. SIEBERT: And this goes back  
5 to the later response that we gave in April  
6 which Doug is looking at.

7 MEMBER MUNN: Doug's looking at it  
8 but I'm not because it's not on the matrix.

9 MR. FARVER: Well, I'll go on with  
10 what they were stating. They, based on the  
11 EE's job description, it is unlikely that the  
12 EE had more than a low potential for exposure  
13 to airborne radionuclides in the workplace. I  
14 don't know. The DR made a decision to apply  
15 internal dose based on the EE's exposure  
16 potential, not a gross overestimate of the  
17 intake for the entire employment period. I  
18 don't know.

19 CHAIRMAN GRIFFON: I guess your  
20 point is that it's perhaps not prescriptive  
21 enough guidance.

22 MR. FARVER: Well, if you --

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1                   CHAIRMAN GRIFFON:     It leaves it  
2     open-ended for the NIOSH dose reconstructor.

3                   MR. FARVER:    I kind of look at it,  
4     if you look at the beginning, it says this is  
5     an overestimate of the employee's dose.   But  
6     clearly, you know, I don't think this is.   I  
7     don't think this is an overestimate.   I don't  
8     say it's claimant-favorable.   I think there's  
9     a lot of questions as to exactly where the  
10    employee was when, and I think on those  
11    occasions, you need to err on the side of  
12    claimant-favorability.   So that's my point, I  
13    mean, that's my view.

14                  CHAIRMAN GRIFFON:    So the response  
15    provided on 4/15 didn't give you any further,  
16    you didn't feel any better about the --

17                  MR. FARVER:    No.

18                  CHAIRMAN GRIFFON:    Alright, okay.

19                  DR. MAURO:    This is John.   Just to  
20    help you out a little bit, as I recall the  
21    philosophy behind the procedures when making  
22    these decisions is, if there's very little

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1 potential that a person received any, whether  
2 it's external or internal exposure, you go  
3 with environmental. When it appears that  
4 there was some potential, some potential,  
5 maybe not a lot but some potential that the  
6 person had a location or job description that  
7 he could have experienced some exposure but  
8 not, you know, you go with the full  
9 distribution. And when it looks like, yes, he  
10 had a job where he was expected to get some  
11 exposure and if you're missing some data or he  
12 was not monitored, you assign the upper 95th  
13 percentile. In this particular case it looks  
14 like that there were time periods where you  
15 decided to assign environmental, and is that  
16 where the issue lies?

17 CHAIRMAN GRIFFON: Yes.

18 MR. FARVER: Instead of --

19 CHAIRMAN GRIFFON: Instead of  
20 coworker.

21 MR. FARVER: -- coworker.

22 DR. MAURO: Instead of -- I call

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1       coworker the full distribution, but it could  
2       also be the upper 95th percentile.

3                   CHAIRMAN GRIFFON:   Right.

4                   DR. MAURO:    So what I'm hearing is  
5       the issue has to do with assigning  
6       environmental when we felt perhaps the full  
7       distribution should have been assigned, the  
8       coworker model.

9                   MR. FARVER:   Yes.

10                  CHAIRMAN GRIFFON:   That's right,  
11       yes.

12                  DR. MAURO:    Okay.   So here we have  
13       a judgment call.

14                  CHAIRMAN GRIFFON:   Right.

15                  DR. MAURO:    Okay.

16                  CHAIRMAN GRIFFON:   Now, I mean I  
17       guess, I get back to this question of, on this  
18       kind of thing, consistency, like from one DR  
19       to the other, how would you expect to have  
20       the, you know, without a little, maybe you  
21       need more guidance on how someone defines  
22       environmental versus coworker for ORNL, you

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1 know. And I know you can't be completely  
2 prescriptive.

3 MEMBER RICHARDSON: So it's  
4 interesting because it's -- I think maybe,  
5 it's not just for ORNL but maybe there is,  
6 there is a way of being prescriptive about the  
7 overestimating approach if that's going to  
8 continue to be used. When doing an  
9 overestimation, you would take, you would use  
10 the coworker model when you're in the  
11 situation.

12 CHAIRMAN GRIFFON: That's another  
13 side of it, yes.

14 MEMBER RICHARDSON: To approximate  
15 individuals' possible exposures.

16 CHAIRMAN GRIFFON: Yes, that could  
17 be another way to look at it, yes, yes.

18 MEMBER RICHARDSON: And then a  
19 best estimate would require you to make this  
20 argument that, based on their occupation and  
21 other information, if you were going to refine  
22 this, you would use something else.

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1 CHAIRMAN GRIFFON: Yes.

2 DR. MAURO: I think we have, and  
3 I'll certainly be corrected on this, a bit of  
4 a difference of opinion on when we talk about  
5 an overestimate or realistic. I believe a  
6 realistic has to provide a level of assurance  
7 that you're not underestimating the person's  
8 dose.

9 MEMBER MUNN: Or overestimate.

10 DR. MAURO: Realistic? No. I'm  
11 thinking the other way. Historically when you  
12 used what I would call a bounding estimate  
13 that would always be done simply to assign the  
14 highest possible, if not impossible, dose to a  
15 person so that, and when you do that you deny.  
16 And everyone, you know, we've always been  
17 comfortable with that. Listen, it's just a  
18 quick way to move this thing through. But  
19 then you move into this gray area and I'd  
20 certainly like to hear a little bit about  
21 this. When you're doing, like the person we  
22 have before us here, and you assign

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1 environmental to this person because, well, it  
2 appears whatever, for your reasons that the  
3 most likely scenario here is that he got  
4 environmental. I don't, see, I don't consider  
5 that claimant-favorable. I would sooner, it's  
6 always a semantics or philosophy. I would say  
7 well, listen, if there's a possibility that he  
8 might have experienced some exposures that  
9 were greater than environmental because of  
10 uncertainties regarding what he might have  
11 been doing and where he might have been, I  
12 consider it to be realistic but claimant-  
13 favorable to assign him the full distribution.  
14 I mean, and I think this is where perhaps the  
15 philosophy between how we look at things and  
16 how you look at things might differ a little  
17 and is worthy of some discussion when we get  
18 to this overarching-issue discussion.

19 DR. ULSH: Have we said what this  
20 guy's job title was?

21 MR. FARVER: This is the draftsman  
22 technologist engineer. And the time period is

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1 '56 through '89, a long time. So he probably  
2 had many different titles.

3 MEMBER MUNN: Yes.

4 DR. ULSH: So it seems like the  
5 current status is we put a response on the  
6 table and that didn't satisfy Doug's concerns.  
7 So the question going forward is, are we at a  
8 point where we just have to agree to disagree,  
9 or do you want us to do something, or --

10 CHAIRMAN GRIFFON: Well, I think,  
11 you know, I think there's two sides to this. I  
12 don't know if we agree to disagree and put it  
13 in an overarching, you know, because this will  
14 continue to come up, I guess. That's one  
15 possibility. But I mean, you know, I wonder,  
16 you know, David's point that I think there's  
17 two things here. One is the sort of site  
18 guidance but the other is -- which would be  
19 one type of guidance. The other might be a  
20 broader policy guidance which is, as he said,  
21 you know, if you're doing overestimating, you  
22 know, by default you always use the coworker

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1 model, you don't use the environmental. Some  
2 kind of decision like that that NIOSH could  
3 put into place. That's a question to throw  
4 out there.

5 MR. HINNEFELD: It might be worth  
6 a project discussion about how fine a line do  
7 we want to draw on these decisions about  
8 exposed and unexposed. I mean, really what  
9 level of evidence do we expect in order to  
10 conclude unexposed? Because the burden really  
11 should be on -- I kind of agree with John  
12 Mauro to an extent that the burden should be  
13 to prove the unexposed nature in a situation  
14 like this where was the person really not  
15 exposed. You know, prove that environmental  
16 is the right one rather than that there was a  
17 potential for exposure and we should be at  
18 coworker.

19 So, I mean it might be a basis for  
20 discussion along those lines just in general  
21 from starting with our contractor to kind of  
22 get a full picture for what kind of level of

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1 evidence do we think is the right level of  
2 evidence and why, and then have a discussion  
3 when we're prepared to have that discussion.  
4 Today we're not really prepared to have that  
5 discussion, but we could have that discussion  
6 with the Subcommittee at some time when we're  
7 prepared to have it. And you know, we have --  
8 rely on Jim Neton for questions of technical  
9 sufficiency so we want to get him engaged in  
10 that part of that discussion as well, and  
11 other folks on our staff as well.

12 MEMBER MUNN: This is kind of  
13 skirting around the issue of quantifying  
14 claimant-favorability. This is coming very  
15 close to that.

16 MR. HINNEFELD: It bumps into it,  
17 yes. I'd say it bumps into it. This is a  
18 piece of it that I can feel -- I can kind of  
19 elucidate this one, you know.

20 MEMBER MUNN: Right.

21 MR. HINNEFELD: The entire issue  
22 of extended claimant-favorability is kind of

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1 large and amorphous but this is a piece of it  
2 I can get kind of get my head around.

3 MEMBER MUNN: Yes.

4 DR. MAURO: This is John again.  
5 I've always been thinking like if you have to  
6 make a decision regarding, you know, assuming  
7 environmental versus some distribution, I  
8 would be looking for affirmative evidence that  
9 I should give them the environmental. And if  
10 I don't have -- I think you said it also very  
11 well, Stu. Lacking affirmative evidence, you  
12 automatically -- the realistic analysis, the  
13 claimant-favorable but realistic analysis is  
14 to give them the full distribution and the  
15 coworker dose.

16 So I get the sense that what's  
17 done here is one where, if I have affirmative  
18 evidence that he was exposed then I will give  
19 him the full distribution. I would sooner say  
20 no, the philosophy, and this is certainly a  
21 subject for, you know, this higher level  
22 discussion. I would say no, no. Only when

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1 you have affirmative evidence that he was not  
2 exposed or unlikely to be exposed for a  
3 variety of reasons do you go with the  
4 environmental. It's almost a difference of,  
5 you know, your decision criteria. What do you  
6 require? Lacking affirmative evidence then  
7 you automatically shift to giving the benefit  
8 of the doubt to the worker.

9 DR. ULSH: Well, okay. I don't  
10 necessarily disagree but I guess I would like  
11 to bring this into practical terms because it  
12 sounds in general like what we're saying here  
13 is we have to prove a negative, prove that he  
14 wasn't exposed, and that concerns me. But  
15 John, maybe you could give me some idea of an  
16 example of what you would consider affirmative  
17 evidence. Or maybe we want to postpone that  
18 discussion.

19 MR. HINNEFELD: Well, I think we'd  
20 want to have it as part of the project  
21 discussion. I guess the thing that kind of  
22 gets my attention about this is apparently

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1 this person wore a dosimeter during this  
2 period of time when they gave him  
3 environmental internal. The reason I say that  
4 is because we say, well, he wasn't  
5 accumulating any dose on his dosimeter during  
6 that time. So, you know, I can understand,  
7 okay, well he wasn't accumulating any dose on  
8 his dosimeter which would indicate maybe he  
9 wasn't heavily engaged in radioactive  
10 material, but on the other hand he was wearing  
11 a dosimeter so apparently he had access to  
12 areas where radiological materials were used.  
13 So you know, that kind of, you know, where do  
14 we come down as a project in a situation like  
15 that. Whereas if a person had no evidence of  
16 monitoring, you know, no evidence of  
17 monitoring record of any kind and had a job  
18 title that certainly looked like an  
19 administrative job title and was at a site  
20 where we know there were administrative areas  
21 it would seem to me that there you've got a  
22 fairly good burden, you know, you've got a

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1 pretty good set of evidence that indicate well  
2 this person probably should get environmental.  
3 When we get into the mixed-mode stuff that it  
4 gets a little more complicated.

5 DR. ULSH: So is the path forward  
6 then that we need to have a talk with ORAU and  
7 then report?

8 MR. HINNEFELD: Yes, I think it's  
9 kind of a little bit of a summit, you know,  
10 with Jim and probably Dave Allen.

11 CHAIRMAN GRIFFON: I think also, I  
12 mean, I don't want to speak for David but I  
13 think he was making the slightly different  
14 point that if you're defining something as an  
15 overestimating maybe that's another layer that  
16 you can look at. Like if we are saying this  
17 is overestimating then by default we should  
18 just use coworker and not even consider  
19 environmental models in those cases, you know  
20 what I mean? You know, then everything else  
21 you said I agree with, but this is another  
22 level of if we're already saying we're doing

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1 an overestimating case why should we try to be  
2 that fine.

3 MR. HINNEFELD: Yes, why start  
4 doing that if you're overestimating. There's  
5 really only a legitimate argument for  
6 overestimate if what you're doing makes it go  
7 faster. I don't know how it would make it go  
8 faster to do a part of it a particular way and  
9 a part of it another way. I don't know how  
10 that makes it go faster.

11 MEMBER RICHARDSON: Yes, that's  
12 what I was wondering because this opens up  
13 kind of, you're at some decision-tree point  
14 and if you're going to go down the line of  
15 justifying why you're want to use  
16 environmental as opposed to coworker data I  
17 would think it requires the person who's doing  
18 the dose reconstruction then, what you're  
19 proposing is that they write a justification  
20 for kind of why they're limiting the dose in  
21 this way.

22 MEMBER MUNN: It is very

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1 disturbing to hear over and over again that we  
2 have badged individuals with long-term  
3 monitoring records whose record is not being  
4 accepted as adequate. And that as I  
5 understand is the basis of what we have here.  
6 We have a monitored individual.

7 MR. HINNEFELD: We have -- finish  
8 your --

9 MEMBER MUNN: No, go ahead.

10 MR. HINNEFELD: The monitored --  
11 this person has a record of being monitored  
12 for external exposure.

13 MEMBER MUNN: Yes.

14 MR. HINNEFELD: Okay, and so the  
15 question is being asked about what about  
16 internal exposure. And so is it a fact, then,  
17 that we feel like the person was sufficiently  
18 monitored externally, like they hung a badge  
19 on this person, gave him access to various  
20 parts of the plant. Is there a high level of  
21 confidence that they have an internal  
22 monitoring record, or that there was zero

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1 potential for any intakes. I mean, a  
2 potential for intake that is below the  
3 monitoring threshold for, at the time for  
4 internal monitoring probably is higher than  
5 the environmental exposures at the time.

6 MEMBER MUNN: Probably so.

7 DR. ULSH: Well, it's somewhat  
8 site-specific. Like I remember at certain  
9 time periods at Rocky Flats the dosimetry and  
10 the security badge were combined. So that  
11 everybody onsite had it and that shouldn't be  
12 taken to indicate that they went into rad  
13 area.

14 CHAIRMAN GRIFFON: That's true.  
15 And that's the case here at Oak Ridge and that  
16 would be something to know in this case.

17 DR. ULSH: Yes. I mean, it seems  
18 like, just stretching the example, at Rocky,  
19 Mark, remember when we -- SC&A identified  
20 periods when there were no, there were gaps in  
21 the monitoring record and then NIOSH went in,  
22 NIOSH and ORAU went in and examined that to

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1 see if there was a reasonable explanation for  
2 those gaps or if it looked like, hey, this  
3 person should have been monitored and we just  
4 don't have the records. Remember we did that  
5 exercise?

6 MEMBER MUNN: Yes.

7 DR. ULSH: I wonder if that could  
8 be done here in this particular case. That  
9 doesn't solve the overall general issue, it's  
10 just this particular case.

11 CHAIRMAN GRIFFON: Let me just  
12 sort of go back to the, you know, if it's an  
13 overestimating approach.

14 DR. ULSH: Well, yes.

15 MR. SIEBERT: Wait a second.  
16 Brant, I want to point out this individual did  
17 have internal monitoring for some years. It's  
18 not like he didn't have any monitoring  
19 whatsoever.

20 DR. ULSH: Okay.

21 MR. SIEBERT: He did have internal  
22 monitoring from '65 through some time in the

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1 early '70s.

2 DR. ULSH: All right.

3 MR. SIEBERT: And if I remember  
4 correctly the way it was assessed was coworker  
5 was used up until the time he actually had  
6 monitoring, used the actual monitoring until  
7 that stopped and then it was environmental  
8 past that point, based on the thought process  
9 that they stopped probably, I'm assuming,  
10 since I did the case, they stopped monitoring  
11 him internally because there was no reason to.

12 DR. ULSH: Well, without knowing  
13 the particulars of this case and I don't, I  
14 would come down on John Mauro's argument that  
15 we need to provide an explanation if we're  
16 going to -- if the guy was monitored and then  
17 all of a sudden he wasn't monitored then we  
18 need to show that that was because he became a  
19 secretary or something. And I don't know if  
20 we did that. Maybe we did.

21 MR. SIEBERT: All right.

22 MEMBER RICHARDSON: Somebody else

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1 can talk to me. My view -- who has a  
2 different perspective on this. I said during  
3 lunch I think to Mark that the participation  
4 in the internal monitoring program is partly  
5 driven by radiological considerations but is  
6 partly driven by sociological considerations.  
7 I mean, that's always been my perception,  
8 particularly in the Oak Ridge data. You see  
9 strong selection into that program. I mean,  
10 it's actually an indication of kind of some  
11 factors reflecting status and prestige that  
12 are related to kind of good health. Those who  
13 were selected into an internal monitoring  
14 program are different than the general  
15 workforce. And you see social dynamics over  
16 time of people from different professions, of  
17 different races, of different sexes moving  
18 into the internal program. I won't say that  
19 the dynamics of somebody going in or out of  
20 that program in the absence of a job title  
21 change means that there was a judgment solely  
22 that they no longer had potential for exposure

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1 because there were fluctuations in it that are  
2 historical in some bigger sense than just the  
3 kind of, the potential for exposure in a given  
4 year in a given job.

5 DR. MAURO: This is John again.  
6 Wasn't it also one of the criteria -- I  
7 remember there were certain guidelines at  
8 least on the Nuclear Regulatory Commission  
9 side when you trigger bioassay programs. I  
10 assume that, as you go back in time, the  
11 philosophy of who is bioassayed and who's not  
12 bioassayed is based on what fraction of an ALI  
13 or an MPC was the expectation for a particular  
14 worker and the kind of job he has. So, it's  
15 not that he wasn't, the expectation was he was  
16 going to get no exposure, but the expectation  
17 was it's unlikely that he would be in excess  
18 of some fraction. And I think it might be 10  
19 percent or 25 percent of a DAC or an MPC at  
20 that time. In those days it was an MPC. So,  
21 I think that's at play here also.

22 MEMBER RICHARDSON: Yes. I mean,

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1 until someone can explain to me why there are  
2 differences in stroke mortality by selection  
3 into the bioassay program. I mean, there's  
4 something, I mean, something else going on. So  
5 you get these, that's not -- it wasn't  
6 selection by, I mean the stroke-mortality  
7 differential is one of the things. Or  
8 actually homicides, accidental causes. I mean  
9 things that are reflected to, that are  
10 determined by strong social conditions which  
11 were not radiation-related ones which, I mean,  
12 that become, you know, really obvious when  
13 you're looking at the mortality trends here.  
14 Anyway, I'm sorry. It's sort of a sideline  
15 except that it's -- it's as though we're  
16 reading participation in those programs as  
17 being kind of solely objective markers of  
18 whether that person was in an area with a  
19 particular hazard. And I would need to be  
20 more strongly convinced that that was, that  
21 those decisions were purely objective in that  
22 sense.

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1 DR. ULSH: Alright, I hear your  
2 concern. I think -- so what we have on the  
3 table right now is that we're going to have a  
4 conversation with ORAU about that general  
5 question of when we assume someone was  
6 unexposed versus exposed, and therefore  
7 whether to assign environmental versus  
8 coworker. And then I think it's fair to think  
9 that we'll go back to you on that once we've  
10 had that conversation. So that's the general  
11 issue.

12 On this specific case it's pretty  
13 clear to me that we're not going to close this  
14 today so I've already got an appointment to go  
15 over and talk to Scott on Wednesday. We'll  
16 take a closer look at this case and talk about  
17 the particulars and see whether we can do  
18 anything to allay Doug's concerns or, if not,  
19 we'll just report the status back to you,  
20 Mark. Does that sound reasonable?

21 CHAIRMAN GRIFFON: Yes, I think  
22 so. Yes.

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1                   MR. KATZ:     When you say report  
2 back, do you mean at the next meeting or an  
3 email?

4                   DR. ULSH:     Yes.    I can see Scott  
5 and Mutty and I having a conversation about  
6 this one in particular on Wednesday and  
7 they'll say, here's why we did what we did,  
8 and I'll say either I'm convinced or I'm not.  
9 And if I'm convinced that I agree with them  
10 then I'll just report back to you that look,  
11 that's our best and final offer after I talk  
12 to Stu and Jim to be sure that we're --

13                  MR. KATZ:     You'll send us an  
14 email?

15                  DR. ULSH:     Yes.

16                  MR. KATZ:     Okay, good.

17                  DR. ULSH:     Or I'll overturn it and  
18 say no, change it.

19                  MR. KATZ:     Yes.    Whichever way it  
20 comes out, it's just -- that'll be nice.

21                  CHAIRMAN GRIFFON:   Why don't we  
22 take 10 minutes and then we'll have our last

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1 hour and a half or so run to the finish line.

2 MEMBER MUNN: Very good.

3 CHAIRMAN GRIFFON: So 10-minute  
4 break on the phone and then we'll come back.  
5 And we'll go through till about 4 p.m. today.

6 (Whereupon, the above-entitled  
7 matter went off the record at 2:29 p.m. and  
8 resumed at 2:44 p.m.)

9 CHAIRMAN GRIFFON: We'll start up  
10 again for our last segment. Another hour and  
11 15 we can get in. All right, we left off on  
12 171.5, I believe and I documented Brant's  
13 course of action for 171.4 so I think we're  
14 okay with that. So 171.5.

15 MR. SIEBERT: This is Scott. Can  
16 I ask a question?

17 CHAIRMAN GRIFFON: Too early for a  
18 question. Go ahead.

19 MR. SIEBERT: The question I have  
20 is why the hell am I asking questions that I'm  
21 entirely -- never mind. Move on to 5.5.  
22 Sorry.

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1 CHAIRMAN GRIFFON: Okay, 171.5.

2 MR. FARVER: Okay. The finding  
3 was NIOSH failed to address different  
4 solubility types. This has been going back  
5 and forth a couple times. And I believe, in  
6 their April response, it came down that there  
7 was a problem accessing the files that had to  
8 do with the solubility. It's not that they  
9 didn't do it, it was a, either you couldn't  
10 access them or the files weren't included at  
11 the time. Is it something like that, Scott?

12 MR. SIEBERT: Yes. The files were  
13 run, I just think you guys couldn't open them  
14 was the problem.

15 MR. FARVER: Okay. Anyway, so  
16 that has been taken care of and I looked at  
17 those so we can close that finding.

18 CHAIRMAN GRIFFON: Okay.

19 MR. FARVER: Yay.

20 MEMBER RICHARDSON: Was that like  
21 the IMBA runs or something like that?

22 MR. FARVER: It was spreadsheets.

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1                   MEMBER MUNN:     And so you did or  
2     did not review the provided workbook?

3                   MR. FARVER:     They were there but  
4     not accessible.

5                   MEMBER MUNN:     Okay, so --

6                   MR. FARVER:     Once they were  
7     accessible I looked at them and they were in  
8     fact, they checked the different solubility  
9     types.

10                  MEMBER MUNN:     And so we're okay  
11     with that?

12                  MR. FARVER:     Yes.

13                  MEMBER MUNN:     We're done?

14                  MR. FARVER:     Done.

15                  MEMBER MUNN:     Done.

16                  MR. FARVER:     Not done, just  
17     finished with that one.

18                  MEMBER MUNN:     Well, closed for  
19     one. I'm trying to close one here.

20                  CHAIRMAN GRIFFON:   Closed, yes.

21                  MR. FARVER:     Okay. I don't know  
22     if we want to do this next one. Okay. This

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1 has to do with information in the CATI report.  
2 NIOSH failed to completely address the  
3 contamination incident reported in the CATI  
4 report. This person worked at ORNL and it was  
5 a time period when there was, was this the  
6 release over at 3019?

7 CHAIRMAN GRIFFON: Yes.

8 MR. FARVER: Yes. And this was,  
9 the employee worked in building 3022. So was  
10 3019 close to 3022? If so, what happened? And  
11 I know NIOSH provided files on this back in  
12 April that I reviewed and -- what they say is  
13 true, you know, it is bounding. Well, if you  
14 do an acute intake in 1959 or the '70 to '72  
15 chronic they're essentially the same. The  
16 point is, unless you go back and look for this  
17 information about the building and about the  
18 incident you're not going to know that. In  
19 this case, they just happened to turn out to  
20 be very close.

21 MEMBER MUNN: So it's six of one  
22 and half a dozen of another.

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1                   MR. FARVER:     Yes.     My point is  
2     that you don't know till you look.

3                   MEMBER MUNN:    Well, you've looked  
4     and there's no longer any question.

5                   MR. FARVER:     No, so we can close  
6     this one, Wanda.

7                   MEMBER MUNN:    We can close it.  
8     Good.

9                   CHAIRMAN GRIFFON:   Does that mean  
10    the general point you're making is that the  
11    CATI reported this.     They never really  
12    assessed it, they just kind of got lucky.

13                  MR. FARVER:     Yes.     They probably  
14    should have looked into it more since it was  
15    mentioned in the CATI report.

16                  CHAIRMAN GRIFFON:   I think this  
17    gets into another of those tough ones that  
18    we've -- because a lot of times we've --

19                  MR. KATZ:     I'm sorry to interrupt  
20    but someone on the line hasn't muted your  
21    phone and you're banging around a lot and it  
22    doesn't bother us so much but it might the

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1 other folks who try to listen by phone. So,  
2 someone needs to mute their phone. Thanks.  
3 Sorry.

4 CHAIRMAN GRIFFON: I was just  
5 wondering if this is a question of, a lot of  
6 times we get into this mode of assuming that  
7 the chronics are going to cover any acute  
8 incident, you know. And I wonder if there's,  
9 you know, I mean at what point, I've always  
10 sort of wondered this. At what point if an  
11 incident's documented in the CATI does NIOSH  
12 investigate, you know. I remember, the DR,  
13 you added a section that basically states that  
14 NIOSH considered all incidents mentioned in  
15 the CATI and the approach is bounding but I  
16 was never comfortable with whether NIOSH  
17 actually investigated any of those incidents  
18 or just determined as a general principle that  
19 these chronic approaches are usually bounding  
20 of acute exposures.

21 MR. HINNEFELD: Well, I think  
22 you've got a mixed bag. There are some cases

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1 where people will remember events that were,  
2 you know, fairly significant during their  
3 history of being monitored. As a matter of  
4 course those are pretty much going to be  
5 covered by assuming a chronic intake. This is  
6 a little different cat we're talking about  
7 here. We're talking about a specific event  
8 that was related in CATI. Certainly really  
9 out of the ordinary. But it seems like from  
10 our initial response that the judgment was  
11 that the person was largely unaffected by the  
12 event. Wouldn't you say that was the position  
13 of the original response? Because they were  
14 in a different building.

15 MR. FARVER: Correct. Because it  
16 was a different building, it did not affect  
17 them, I think was the premise.

18 MR. HINNEFELD: I'm not saying  
19 it's true. I'm saying the judgment of the  
20 original dose reconstructor.

21 CHAIRMAN GRIFFON: That was the  
22 judgment of the original dose reconstructor or

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1 the judgment of our process?

2 MR. HINNEFELD: According to our  
3 initial response it depicts that as the  
4 judgment of the original.

5 MR. FARVER: What prompted us to  
6 look at it was well gee, 3022, is that close  
7 to 3019 because I know that whole area was  
8 affected.

9 MR. HINNEFELD: There was, yes,  
10 there was plutonium outside on the streets,  
11 there was, you know. So it got outside the  
12 building. So that's the question.

13 MR. FARVER: And then it just went  
14 from there. Well, where is 3022. Well, it's  
15 no longer there, it's been torn down. Well,  
16 where was it and that's how we started looking  
17 into that.

18 DR. ULSH: And this was an  
19 incident that occurred with plutonium. And  
20 the person had plutonium bioassay?

21 MR. HINNEFELD: It was years  
22 later, wasn't it?

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1                   MR. SIEBERT:    Yes, it was years  
2 later. Correct. And we actually had assigned  
3 coworker during the time frame as well, not  
4 just a chronic over that time.

5                   MR. HINNEFELD:  During the time he  
6 was monitored?

7                   MR. SIEBERT:  Prior to the time he  
8 was monitored.

9                   MR. HINNEFELD:  Including the time  
10 of the event?

11                  MR. SIEBERT:  Correct.

12                  MR. HINNEFELD:  Oh, okay.

13                  CHAIRMAN GRIFFON:  I didn't know  
14 that.

15                  MR. HINNEFELD:  I didn't either.

16                  DR. ULSH:        Well, yes.        Two  
17 questions.  Number one, did the methodology  
18 that we used adequately estimate or  
19 overestimate the exposure he could have gotten  
20 from this incident?  Sounds like we're saying  
21 yes.

22                  MR. FARVER:  Yes.

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1 DR. ULSH: But another question  
2 would be in the dose reconstruction report did  
3 we acknowledge this incident that was reported  
4 in the CATI and explain why, what we did?

5 MR. FARVER: You acknowledged it  
6 in the CATI and said we should be covered with  
7 your -- or how was that phrased?

8 DR. ULSH: Yes, is it that  
9 standard boilerplate language that we use  
10 where?

11 MR. FARVER: The claimant-  
12 favorable assumptions used in this dose  
13 reconstruction adequately account for any dose  
14 received from this event.

15 DR. ULSH: Scott, did you want to  
16 --

17 MR. FARVER: It's a more detailed  
18 write-up of the CATI report than a lot of  
19 them.

20 MR. SIEBERT: Right, it does say,  
21 it mentions the explosion in adjacent  
22 building. No information found in the DOE

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1 records. The interview process, there wasn't  
2 a time frame where it was mentioned in the  
3 CATI although we reviewed it later on and  
4 figured out it was in 1959 probably.

5 DR. ULSH: Mark, I know your  
6 programmatic concern that we sometimes don't  
7 take CATI seriously. It sounds like in this  
8 case we did.

9 CHAIRMAN GRIFFON: I understand it  
10 that way.

11 MR. FARVER: I think more of the  
12 concern in this case was, gee, since it wasn't  
13 the big 3019 incident, you know, is there  
14 anymore information available. Or, you know,  
15 would it affect this building of 3022 to begin  
16 with, that was our first question. And it's  
17 just one of those things.

18 CHAIRMAN GRIFFON: I actually  
19 thought initially that it was just given the  
20 boilerplate treatment.

21 MR. FARVER: No.

22 CHAIRMAN GRIFFON: It sounds like

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1 they went further, so that's good. I'm  
2 reassured. And given that, I don't have the  
3 programmatic concern here and it sounds like  
4 the case specifics closed, right?

5 MR. FARVER: Yes.

6 CHAIRMAN GRIFFON: Okay. We're  
7 closing all kinds of fun these days. Haven't  
8 given any to Wanda's subcommittee either so  
9 let's work on that.

10 MEMBER MUNN: That's all right.  
11 It's late in the day, you don't need to  
12 disturb yourself at all.

13 CHAIRMAN GRIFFON: Okay, moving  
14 on.

15 MEMBER MUNN: 172.1 is a QA  
16 concern.

17 CHAIRMAN GRIFFON: 171. I'm not  
18 sure why I used the aqua color. Does anybody  
19 know?

20 MR. FARVER: In one of your blue  
21 moods.

22 MEMBER MUNN: I think that was a

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1 no further action, case-closed flag that we  
2 started off with a long time ago.

3 CHAIRMAN GRIFFON: I think that  
4 can be removed.

5 DR. ULSH: The next one I see with  
6 yellow is 173.2.

7 CHAIRMAN GRIFFON: I know why it  
8 wasn't removed, because I try to remove it and  
9 I can't.

10 MEMBER MUNN: That's a good  
11 reason.

12 CHAIRMAN GRIFFON: That's some  
13 reason. Anyway, we'll go on to 173.2.

14 MR. FARVER: Still stuck in 171.  
15 Hold on.

16 CHAIRMAN GRIFFON: Yes, I can't  
17 clear it. It might be because they copied it  
18 from another matrix and it had the blue. I  
19 don't know. It's weird. Okay.

20 MR. FARVER: 173.1, recorded  
21 photon dose uncertainty factor is inconsistent  
22 with the Technical Basis Document. A little

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1 background. This comes from Los Alamos and  
2 the employee worked there from '73 to 2000 as  
3 a mechanical technician.

4 MEMBER MUNN: Wait.

5 DR. ULSH: 173.1 is closed.

6 CHAIRMAN GRIFFON: Yes.

7 MR. FARVER: Oh.

8 CHAIRMAN GRIFFON: 173.2.

9 MR. FARVER: Well, it's still from  
10 Los Alamos.

11 (Laughter.)

12 MEMBER MUNN: So there.

13 CHAIRMAN GRIFFON: You were just  
14 giving us background, right?

15 MR. FARVER: Okay, I've got  
16 another finding. 173.2, take that. Failed to  
17 properly account for all the reported neutron  
18 doses. Gee, what a surprise.

19 CHAIRMAN GRIFFON: Sounds  
20 familiar.

21 MR. FARVER: While verifying the  
22 input data it was discovered that the

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1 dosimeter neutron dose for 1993 was missing in  
2 the calculations.

3 DR. ULSH: You're talking about  
4 neutron dose. Is that 173.3 that you're  
5 looking at?

6 MR. FARVER: Okay.

7 DR. ULSH: That's photon doses.

8 CHAIRMAN GRIFFON: That's photon,  
9 yes.

10 MEMBER RICHARDSON: So 173.1 and  
11 .2 and .3 are all just QA/QC, right?

12 CHAIRMAN GRIFFON: They do seem  
13 like QA, yes.

14 MR. FARVER: Okay. I was looking  
15 at our draft report that does not have that.

16 MEMBER MUNN: So the new  
17 calculation didn't affect these.

18 CHAIRMAN GRIFFON: Yes, we had an  
19 agreement on this and then they checked it but  
20 there was further action here.

21 MS. BEHLING: This is Kathy. I  
22 believe for 173.2, the greater than 250 keV

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1 missed dose was calculated improperly, but I  
2 think we were concerned with just a work  
3 locator.

4 MR. FARVER: Yes.

5 CHAIRMAN GRIFFON: And would it be  
6 carried through, right.

7 MEMBER MUNN: To see if the error  
8 could have resulted in --

9 MR. FARVER: I don't know.

10 CHAIRMAN GRIFFON: So I'm assuming  
11 both --

12 MR. FARVER: Both parties should  
13 check workbook.

14 CHAIRMAN GRIFFON: Right, okay.

15 DR. ULSH: Scott, we haven't done  
16 our part of this, have we, where we review the  
17 workbook to see if it could have resulted in a  
18 broader problem?

19 MR. SIEBERT: I'm looking at it. I  
20 don't believe we reviewed the workbook from  
21 that time frame.

22 DR. ULSH: Okay.

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1 MR. FARVER: And the same goes for  
2 173.3.

3 MEMBER MUNN: Same issue.

4 CHAIRMAN GRIFFON: Right.

5 MR. FARVER: 173. Where are we  
6 at?

7 MEMBER MUNN: 173.5.

8 MR. FARVER: Looks like that's  
9 closed.

10 MEMBER MUNN: That's actually  
11 closed even though it's still yellow.

12 CHAIRMAN GRIFFON: All right, I'll  
13 get rid of the yellow.

14 MR. FARVER: Some yellow from an  
15 earlier meeting.

16 MEMBER MUNN: Yes. Some Old  
17 Yeller.

18 CHAIRMAN GRIFFON: Oh my gosh.

19 MEMBER MUNN: Sorry.

20 CHAIRMAN GRIFFON: Have that  
21 stricken from the record.

22 (Laughter.)

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1 CHAIRMAN GRIFFON: 174.1.

2 MR. FARVER: This is another  
3 workbook to review. There's no specific tool  
4 for Portsmouth so they used a K-25 tool with  
5 modifications. So, what was the original  
6 finding? DR overestimates the recorded  
7 prostate dose.

8 CHAIRMAN GRIFFON: Overestimates.

9 MR. FARVER: Overestimates. So,  
10 basically they just took an air calculation  
11 workbook and modified it with the Portsmouth  
12 parameters.

13 MEMBER MUNN: So have you guys  
14 taken another look at it?

15 MR. FARVER: No.

16 MEMBER MUNN: Okay.

17 CHAIRMAN GRIFFON: Okay. So it  
18 remains your action. Alright, is that it?  
19 175.1.

20 MEMBER MUNN: 175.1.

21 CHAIRMAN GRIFFON: That might be  
22 it for what we have responses for.

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1                   MEMBER MUNN:     All missed neutron  
2     dose.   Not accounted for.   That's that older  
3     building.

4                   MR. FARVER:     I don't have that  
5     marked.

6                   CHAIRMAN GRIFFON:   So did -- do I  
7     understand this correct?   Did NIOSH have  
8     previously   unavailable   information,   they  
9     reworked this and now SC&A's reviewing the  
10    reworked case?

11                  MEMBER MUNN:     That's what it says.

12                  MR. FARVER:     That's it, that's  
13    what we're doing.   This is the other case, 160  
14    and then 175.

15                  CHAIRMAN GRIFFON:   Oh right, you  
16    mentioned the other.   Yes.

17                  MR. FARVER:     Yes, so all this  
18    under 175 is basically where we're going to  
19    compare the reworked case with the original  
20    case and then report back on what the changes  
21    were.

22                  CHAIRMAN GRIFFON:   Okay.

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1 MR. SIEBERT: So that's still an  
2 SC&A task, is that what I hear correctly?

3 MR. FARVER: Correct.

4 MR. SIEBERT: Okay. Thanks, Doug.

5 MR. KATZ: So will that be ready  
6 for the next meeting?

7 MS. BEHLING: This is Kathy. I'm  
8 assigned to that one, yes. I apologize.

9 MR. KATZ: Thanks, Kathy.

10 CHAIRMAN GRIFFON: Alright.

11 MR. FARVER: And then we are into  
12 attachments and I believe they only responded  
13 back to Bridgeport Brass which would be  
14 Attachment 1.

15 MEMBER MUNN: 175, that's all  
16 under that old. Attachment to Bridgeport  
17 Brass.

18 MR. FARVER: Is that what you  
19 believe, Brant? That you responded back just  
20 to the Bridgeport? That's the only one that I  
21 could find.

22 DR. ULSH: That's the only one I

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1 know of.

2 MR. FARVER: Okay. And I don't  
3 believe I have responses to those, but I will  
4 by next meeting.

5 CHAIRMAN GRIFFON: What is this  
6 one for? I was updating the last one.

7 MR. FARVER: This is one of our  
8 mini-profile reviews.

9 CHAIRMAN GRIFFON: Oh yes.

10 MR. FARVER: That we did, one of  
11 three.

12 CHAIRMAN GRIFFON: Right.

13 MR. FARVER: And this one was for  
14 Bridgeport Brass.

15 DR. ULSH: So Attachment 1 is  
16 Bridgeport Brass and then there are findings,  
17 1, 2, 3, 4, 5, several findings on Attachment  
18 1 related to Bridgeport.

19 MR. FARVER: Number 2 is Harshaw.

20 DR. ULSH: Well, the Finding 1.

21 MR. FARVER: Attachment 2, sorry.

22 DR. ULSH: Finding 1 looks like

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1 that's a NIOSH item, right?

2 MR. FARVER: Well, I have the  
3 response from April. It says NIOSH agrees  
4 that there is limited data prior to 1960.  
5 However, based on 1960 HASL report the later  
6 date issued bound the earlier production runs.

7 DR. ULSH: Oh okay, so maybe the  
8 matrix is -- because that's not in the matrix  
9 right now, is it?

10 MEMBER MUNN: No, it isn't.

11 MEMBER RICHARDSON: But it's in  
12 this document called Bridgeport Mini TBD  
13 Review.

14 MR. FARVER: Your response is in  
15 the matrix for April 2011. The copy that I  
16 have, the July 2011 version.

17 MEMBER MUNN: I've got the July  
18 2011 version. It's not in there.

19 MEMBER RICHARDSON: It's not in  
20 the July 15th, 2011.

21 DR. ULSH: Right, that's what I'm  
22 looking at and I don't see it.

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1                   MEMBER RICHARDSON:     But it's in  
2     this other document.

3                   CHAIRMAN GRIFFON:     No, they're  
4     separate documents, right? Because I probably  
5     didn't --

6                   DR. ULSH:     Separate TBD review.

7                   MR. FARVER:     It's in my document.

8                   DR. ULSH:     Okay, so we have  
9     provided a response and SC&A needs to review  
10    it then for Finding 1, Attachment 1?

11                  MR. FARVER:     Yes.

12                  DR. ULSH:     Okay.

13                  CHAIRMAN GRIFFON:    I'll add those  
14    things into the matrix just so we have them  
15    all in one spot. I think we were working  
16    from, you know, we started going to that other  
17    separate document.

18                  DR. ULSH:     Okay, got you.

19                  DR. MAURO:     Mark, this is John. I  
20    have to say I did the original reviews of  
21    these three attachments. I have to say I  
22    don't recall reviewing the responses that may

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1 have come in. When did those responses come  
2 in to these concerns?

3 MR. FARVER: April.

4 DR. MAURO: In April? Yes, you  
5 know, you may have sent them to me but I have  
6 to say I may have looked at them, I don't  
7 recall, or maybe someone else did.

8 MR. FARVER: That's okay.

9 DR. MAURO: So whether or not we  
10 have a position regarding each of these  
11 responses or not. I'm really not in a  
12 position to say.

13 MR. FARVER: I think what we'll do  
14 is we're just going to try to respond to these  
15 today for these attachments.

16 DR. MAURO: Okay.

17 DR. ULSH: Just so I understand  
18 the status, for Attachment 1, all the findings  
19 associated with Attachment 1, is it true that  
20 NIOSH has provided responses and SC&A has to  
21 review them?

22 MR. FARVER: Let me get back to my

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1 responses that don't exist here.

2 MR. HINNEFELD: I don't see a  
3 response for Finding 3.

4 MR. FARVER: Not for Finding 3.

5 DR. ULSH: So that's a NIOSH  
6 action.

7 MR. FARVER: Finding 5, 4, 5A.

8 MR. SIEBERT: I'm looking at what  
9 we sent over April of '11 and I've gotten  
10 responses for all four findings.

11 MEMBER MUNN: There are six  
12 findings. Finding 5A.

13 MR. SIEBERT: I can only say  
14 that's what I sent over I think to Brant. They  
15 may have changed from that point, I'm not  
16 positive.

17 DR. ULSH: So in other words Scott  
18 might have sent it to me and I might not have  
19 sent it on to you is what he's saying.

20 (Laughter.)

21 MR. SIEBERT: No, I think you  
22 forwarded it on, I just, I don't know if you

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1 made some changes along the way, removing one  
2 of the responses, something like that.

3 DR. ULSH: I'm not sure.

4 MR. FARVER: Okay.

5 CHAIRMAN GRIFFON: Can you both  
6 send me the latest and greatest and I'll merge  
7 them into the matrix of sort of a path forward  
8 on this?

9 MEMBER MUNN: I think that's a  
10 good idea.

11 CHAIRMAN GRIFFON: And if you  
12 have, I mean, I don't quite understand who --  
13 if it's for me to decide right now, I don't  
14 know who had the last response, so.

15 DR. ULSH: It sounds like we may  
16 have responded on some of these but I don't  
17 know about all of them.

18 CHAIRMAN GRIFFON: All right, all  
19 right.

20 MR. FARVER: And that was the only  
21 attachment that I believe we got responses to.

22 DR. ULSH: And there are how many

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1 attachments, two or three?

2 MR. FARVER: Three.

3 DR. ULSH: Three attachments. So  
4 we still owe you responses on the Attachment 2  
5 findings and the Attachment 3 findings.

6 MR. FARVER: Yes.

7 CHAIRMAN GRIFFON: And then if you  
8 could forward your responses to Attachment 1.  
9 You have those, Doug, you said?

10 MR. FARVER: Well, at least I have  
11 some of them.

12 CHAIRMAN GRIFFON: Yes. Just  
13 forward them to all of us so, and then SC&A,  
14 you can work on them and I can populate the  
15 matrix with them and be up to date.

16 MEMBER MUNN: There's Attachment 2  
17 here. I have all these notes that Mark  
18 Griffon needs additional time to consider.

19 CHAIRMAN GRIFFON: That's in your  
20 private matrix?

21 MEMBER MUNN: It says right here.

22 (Laughter.)

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1 MR. FARVER: Okay.

2 CHAIRMAN GRIFFON: So that's where  
3 we'll leave it, right? I mean, we'll forward  
4 the most recent version. We'll repopulate the  
5 -- I'll update the matrix with the most  
6 current version. You're going to -- NIOSH is  
7 going to respond to Attachments 2 and 3.

8 DR. ULSH: Yes, correct.

9 CHAIRMAN GRIFFON: And then SC&A  
10 will respond to NIOSH's response for  
11 Attachment 1.

12 MR. FARVER: Yes.

13 CHAIRMAN GRIFFON: The outstanding  
14 actions. Okay. Then that's it for this  
15 matrix, right?

16 MR. FARVER: Yes.

17 DR. ULSH: Before we do whatever  
18 it is we're going to do next, it's my  
19 intention to direct ORAU for the next meeting  
20 to focus their efforts on the remaining items  
21 from this matrix. We closed the seventh,  
22 right? There's no outstanding items in the

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1 seventh, is that correct?

2 CHAIRMAN GRIFFON: I think there's  
3 one but I think we couldn't do anything with  
4 it immediately, right? If I recall.

5 DR. ULSH: That might be. I might  
6 be misremembering.

7 CHAIRMAN GRIFFON: I mean, the  
8 Aliquippa Forge thing. It says rewrite the  
9 Aliquippa Forge Site Profile.

10 DR. ULSH: Okay.

11 CHAIRMAN GRIFFON: We don't really  
12 have a Site Profile Committee for that so I  
13 think we've got to keep it here.

14 DR. ULSH: Okay.

15 CHAIRMAN GRIFFON: But that's --  
16 so essentially it's closed, right.

17 DR. ULSH: All right.

18 MR. KATZ: There's the Simonds Saw  
19 item, too.

20 CHAIRMAN GRIFFON: Yes, but that  
21 we referred to the Site Profile Committee that  
22 doesn't exist.

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1 MR. KATZ: Oh, that's true.

2 CHAIRMAN GRIFFON: Yes, yes.

3 DR. ULSH: So at the next meeting  
4 we'll start with the eighth matrix?

5 CHAIRMAN GRIFFON: Yes.

6 DR. ULSH: So I'll tell ORAU to  
7 focus their efforts on the items in the eighth  
8 matrix.

9 CHAIRMAN GRIFFON: That makes  
10 sense, and those attachments -- including  
11 those attachments.

12 DR. ULSH: Right, including those  
13 attachments.

14 CHAIRMAN GRIFFON: I think if we  
15 got through that that would be progress.

16 DR. ULSH: Right.

17 CHAIRMAN GRIFFON: Alright, so are  
18 we closing this for now?

19 MR. FARVER: Yes.

20 CHAIRMAN GRIFFON: And moving on  
21 to the ninth or does it make sense at this  
22 point? Are we just going to be spinning our

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1 wheels? I mean, we don't have to go through  
2 till 4 if we can't be productive.

3 MR. FARVER: No, I've got --

4 CHAIRMAN GRIFFON: You've got  
5 some?

6 MR. FARVER: If you just want to  
7 bounce around and want to close some.

8 DR. ULSH: Okay. I don't have the  
9 ninth, well maybe I do. I've probably got it  
10 somewhere.

11 MS. BEHLING: Before we start the  
12 ninth, can I ask a question? Kathy again. I  
13 believe at the last Subcommittee Meeting and  
14 forgive me because I haven't been as close to  
15 this for a while. Didn't we select cases for  
16 PER 12 for the, you know, high-fired  
17 plutonium?

18 MR. KATZ: Yes, we did.

19 CHAIRMAN GRIFFON: Yes.

20 MS. BEHLING: Has SC&A received  
21 those cases yet from NIOSH? Just looking at  
22 it or working on them. I haven't seen them.

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1                   MR. KATZ:     I don't know who's  
2     interacting with DCAS on that but that should  
3     be done directly between SC&A and DCAS,  
4     acquiring the cases. I believe the cases were  
5     selected and -- yes, DCAS selected the cases  
6     and gave you references for the cases I'm  
7     pretty certain.

8                   DR. MAURO:   This is John. I think  
9     the ball is in our court on that.

10                  MS. BEHLING:   Okay, so we're just  
11     supposed to go into NOCTS and pull out all of  
12     the information that we need?

13                  DR. ULSH:     Oh wait, I thought we  
14     collected them and --

15                  MR. HINNEFELD:   No, that was the  
16     15th set, wasn't it?

17                  MR. KATZ:     At the last meeting,  
18     you definitely selected the cases for this. So  
19     how, the mechanics after that, I have no idea,  
20     but the cases were selected.

21                  MR. FARVER:    Is there a directory  
22     under the DR Subcommittee on the O: drive?

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1 MS. BEHLING: No, I didn't see  
2 anything in there and I just wanted to be sure  
3 we didn't drop the ball on that.

4 MR. FARVER: Is there a directory  
5 there for PER 12? PER something?

6 MS. BEHLING: I did not see it.

7 MR. FARVER: Okay. I saw one  
8 somewhere but it could have been anywhere.

9 DR. ULSH: Well Kathy, I recall  
10 collecting, you know, a bunch of folders and  
11 giving them to you but I can't swear that that  
12 was related to PER 12. I might be thinking of  
13 something different.

14 MS. BEHLING: You did do that. I  
15 thought that was for the 15th set.

16 DR. ULSH: Could be.

17 MR. FARVER: Yes, I think that was  
18 the 15th set. And remember, we selected the  
19 ones for PER 12.

20 DR. ULSH: Right.

21 MS. BEHLING: And I guess my  
22 question was, do we just go into NOCTS and

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1 gather the files or should there be a folder  
2 put out there. I just didn't, you know,  
3 because I don't believe SC&A has started  
4 working on those. Am I right, Doug?

5 MR. FARVER: No, you haven't.

6 DR. ULSH: Well, in the past we  
7 have collected them for you and put them in a  
8 specific location.

9 MS. BEHLING: Yes.

10 DR. ULSH: If you want to follow  
11 that protocol then that's I guess what we  
12 would do.

13 MR. HINNEFELD: There is a PER 12  
14 folder but it gives the identification of the  
15 claims that were selected but it does not  
16 include the NOCTS files, it looks like.

17 DR. ULSH: So it looks like we  
18 need to collect the NOCTS files.

19 MR. KATZ: Is there a big  
20 difference between you collecting those and  
21 them going into NOCTS? They have the files.

22 MR. HINNEFELD: Well, the

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1 efficiency is our computer people can do it  
2 automatically, put them all in one place.

3 MR. KATZ: Okay.

4 MS. BEHLING: It's always helpful  
5 for us.

6 MR. HINNEFELD: If you're coming  
7 in through, as SC&A does, you come into the  
8 system through CITGO, it's not the quickest  
9 responder. So, it would probably take -- I  
10 hated to break your bubble there.

11 (Laughter.)

12 MR. HINNEFELD: There actually are  
13 better systems out there. But it would, I  
14 think it would work better. They still come  
15 in through CITGO but they wouldn't have to,  
16 it's still quicker to just be able to pick up  
17 the file. So okay, you've got that one? Okay.

18 Because they're identified in that folder but  
19 the NOCTS files aren't there.

20 CHAIRMAN GRIFFON: Thanks, Kathy,  
21 for keeping us on the ball on that one.

22 MS. BEHLING: Thank you.

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1                   CHAIRMAN GRIFFON:     Alright.  Now,  
2     for the ninth set are we working from this  
3     latest matrix?  Does it finish with 11/8/10?  
4     That's the latest version I seem to have.  
5     November.

6                   MR. SIEBERT:        That's the latest  
7     version I see as well, Mark.

8                   CHAIRMAN GRIFFON:     Okay,  all  
9     right.  Just wanted to make sure we're all on  
10    the same --

11                  MR. HINNEFELD:    I sent that to the  
12    Subcommittee on, let me think.  I think I did  
13    on July 15th.  July?  Yes, 7/15 I sent I  
14    believe the one we're talking about.  I  
15    actually attached the email that Scott sent to  
16    me.

17                  CHAIRMAN GRIFFON:    But the name of  
18    the file was still --

19                  MR. HINNEFELD:    The name of the  
20    file is ninth set, and ninth is 9t3 instead of  
21    9th, Case Audits Issues Matrix, 11/08/10.

22                  CHAIRMAN GRIFFON:    Ten,  right.

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1 That's the one I have too. So as of in 15  
2 minutes, this will be slightly revised.

3 MEMBER MUNN: It would really be  
4 helpful to get current updates of all these in  
5 one place.

6 CHAIRMAN GRIFFON: That would be a  
7 good idea.

8 MR. HINNEFELD: You ought to use  
9 the procedures application to put your  
10 databases in. It could be adapted.

11 CHAIRMAN GRIFFON: Yes, I know,  
12 we've heard. All right, Doug, start us down  
13 one matrix.

14 MR. FARVER: Let's see, the  
15 opening number that we -- the first NIOSH  
16 response comes from 180.1.

17 MR. SIEBERT: This is Scott, I'm  
18 sorry. I thought we did send a response to  
19 179.2 which is also the same issue of 183.3.  
20 It's the PFG.

21 DR. MAURO: This is John. Yes, I  
22 have that on my screen right now, 179.2.

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1                   MR. FARVER:    Just trying to jump  
2                   ahead.    You caught me.    This is Ashland Oil  
3                   and the finding is medical doses are  
4                   understated because they did not follow PFG  
5                   exposure guidelines, yada yada yada.    It was  
6                   talked about this for AWEs and PFG exposures  
7                   and this should be closed, or we're going to  
8                   close this because there is -- I swear we  
9                   closed this the last time.

10                  DR. MAURO:    Yes.    This is John.  
11                  Yes, we discussed this before.

12                  MR. FARVER:    Yes.

13                  DR. MAURO:    And we accepted this  
14                  answer.    The only thing I guess that might  
15                  remain is OTIB-0006 could use a little  
16                  language making the distinction between when  
17                  you use -- why PFG is assumed prior to some  
18                  date in 1970 for DOE sites, but why it is not  
19                  automatically assumed for AWE sites.    I think  
20                  the rationale for that decision which is the  
21                  way in which NIOSH does its AWE medical X-ray  
22                  calculations is valid.    However, in the OTIB-

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1 0006 it's silent regarding that matter.

2 MR. SIEBERT: Just a quick point  
3 here. I'm looking at it. We just revised  
4 OTIB-6 between the last two meetings. I'm  
5 checking to see if it's now officially in  
6 there or not.

7 DR. MAURO: But we are in  
8 agreement in principle regarding this matter.

9 MR. SIEBERT: Correct.

10 MR. FARVER: Yes.

11 CHAIRMAN GRIFFON: Perhaps the  
12 only reason we left it open was to wait till  
13 you made the changes or whatever. I don't  
14 know.

15 MR. FARVER: So we can close  
16 179.2.

17 CHAIRMAN GRIFFON: Well, we're  
18 waiting for Scott to look that up.

19 MR. FARVER: Oh.

20 CHAIRMAN GRIFFON: But yes, I  
21 essentially closed it.

22 MEMBER RICHARDSON: So would this

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1 be a regional thing? I mean, just out of  
2 curiosity. Like the background document.  
3 Would an early AWE site in a large  
4 metropolitan area, is it possible that local  
5 clinics would have been set up for TB screen  
6 whereas in, you know, in smaller areas, they  
7 wouldn't be doing fluoroscopy?

8 DR. MAURO: David, this is John. I  
9 remember the conversation we had and it had to  
10 do with the contract. That is, though the  
11 standard practice at DOE facilities to use PFG  
12 often prior to a certain date, when an AWE was  
13 brought aboard it actually had a contract with  
14 the Atomic Energy Commission or the Manhattan  
15 Engineering District and if the contract did  
16 not call for annual chest X-rays or PFG in  
17 particular, it was assumed that it was an  
18 annual chest X-ray. Even though there may not  
19 be any affirmative evidence that that was the  
20 case in the contract, they do as a matter of  
21 standard practice assign a chest X-ray to the  
22 AWE workers upon, you know, when work began

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1 every year. But they do not automatically  
2 assume a PFG unless there's affirmative  
3 evidence that there was a contract to do so or  
4 the workers actually have the PFG, I guess,  
5 film in their record. And we discussed this  
6 and we found that argument compelling.

7 DR. ULSH: I should mention to you  
8 that OTIB-6 is one of the documents that the  
9 Procedures Subcommittee has under review.

10 MR. SIEBERT: And I have reviewed  
11 it. It's at the very end of Section 7.2, the  
12 most recent version which was I believe this  
13 summer. And yes, it does state, because PFG  
14 was primarily a mass screening technique most  
15 suitable to large populations and therefore  
16 unlikely to have occurred on a mass scale at  
17 AWE sites, PFG should not be assumed to have  
18 occurred at AWE sites unless there is  
19 evidence. So, it's in there.

20 DR. ULSH: So I think the specific  
21 answer to your question, David, is no, we  
22 didn't take into account.

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1                   MEMBER RICHARDSON:   Yes.   I mean,  
2                   the argument makes sense to me in general.   I  
3                   was imagining like, you know this place in  
4                   Brooklyn or whatever, right?   That was, you  
5                   send your worker -- if what they're saying is  
6                   in these places you might send them to a local  
7                   clinic in Brooklyn.

8                   MR. HINNEFELD:   In that instance  
9                   the X-ray has to occur at the covered facility  
10                  in order for us to include the dose because of  
11                  drafting.   It's a --

12                  MEMBER RICHARDSON:   Okay.

13                  MR. HINNEFELD:   It's a quirk of  
14                  the drafting of the language, to construct the  
15                  dose at the facility.   And so in the case they  
16                  went to an offsite clinic that was set up, we  
17                  wouldn't count it.

18                  MEMBER RICHARDSON:   Okay.

19                  CHAIRMAN GRIFFON:   That's true.  
20                  Okay.   Well, I think we're closed on this one  
21                  then, right?

22                  MR. FARVER:       Okay.   Next   NIOSH

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1 response was 180.1. This is a Bridgeport  
2 Brass case. And the finding says reviewer  
3 questions the accuracy of the employment  
4 period identified by NIOSH slash DOL. And  
5 John, if you want to pull this one up or if  
6 you have any input on this, this is Bridgeport  
7 Brass and the question --

8 DR. MAURO: The Seymour facility.

9 MR. FARVER: Yes.

10 DR. MAURO: I do not have anything  
11 to add at this time.

12 MR. FARVER: Okay.

13 DR. MAURO: I see the response, it  
14 has to do with these dates. And this  
15 particular worker apparently left one facility  
16 and went to another one.

17 MR. FARVER: Now, you know, the  
18 NIOSH response, determination of the dates and  
19 facilities of employment are the  
20 responsibility of DOL. NIOSH assessed a claim  
21 per the information forwarded by DOL. The  
22 only question I have with their response is

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1 now, what's the resolution to this or is there  
2 one. We run into this occasionally where we  
3 come across dates that don't match up with  
4 what DOL establishes.

5 DR. ULSH: I can tell you that in  
6 general when we, in a dose reconstruction,  
7 when we're doing it and we look into the  
8 records, and say for instance there's a  
9 dosimetry result that's outside the period of  
10 covered employment for that worker, we have,  
11 as a practice we notify DOL of that so that  
12 they can handle it. I don't know the  
13 particulars of this specific case but I mean  
14 we do do that.

15 MR. FARVER: Okay.

16 CHAIRMAN GRIFFON: So how did this  
17 Seymour facility come up? Was it in the CATI  
18 interview? The individual identified that  
19 they were transferred and DOL's records don't  
20 confirm that, is that, am I understanding this  
21 correctly?

22 DR. MAURO: I think the answer to

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1 your question, Mark, is yes. We found some  
2 evidence that there was reason to believe  
3 that, after leaving Bridgeport Brass, if this  
4 is still Bridgeport Brass, I'm not sure.

5 MR. FARVER: Yes.

6 DR. MAURO: He went on to another  
7 facility, another AWE facility where he could  
8 have experienced additional exposure, and that  
9 was not taken into consideration. And we  
10 stopped there.

11 DR. ULSH: If that's the case then  
12 I don't really like our answer. I mean, if  
13 there is in fact evidence of additional  
14 employment.

15 CHAIRMAN GRIFFON: Then that  
16 should be turned over to DOL and they should  
17 look at it.

18 DR. ULSH: NIOSH should notify DOL  
19 and they should.

20 CHAIRMAN GRIFFON: Right. So you  
21 want to look into it and see what? I mean,  
22 right now it says both SC&A and NIOSH are

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1 going to review, right?

2 DR. ULSH: I see that.

3 MR. FARVER: Where does it say  
4 that?

5 DR. ULSH: In the NIOSH  
6 resolution.

7 CHAIRMAN GRIFFON: In the yellow.

8 MR. SIEBERT: What might be  
9 helpful for us is to specifically  
10 documentation-wise -- SC&A to that  
11 determination.

12 DR. MAURO: Scott, I agree. We  
13 owe you, I think that was the genesis of this.  
14 We owe you some statement of why we raised the  
15 issue.

16 CHAIRMAN GRIFFON: Okay.

17 DR. MAURO: Where in the record  
18 does this Seymour Specialty Wire come into the  
19 picture.

20 MR. SIEBERT: Yes, that would be  
21 very helpful.

22 CHAIRMAN GRIFFON: Okay. So

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1 really this is on SC&A to review further.

2 MR. FARVER: SC&A to provide data.

3 CHAIRMAN GRIFFON: The next step  
4 might be for you to go back to DOL but we  
5 don't know yet. Okay, all right.

6 DR. MAURO: My guess is there was  
7 probably something in the CATI or somewhere.  
8 You know, we would not have come up with  
9 Seymour Specialty Wire.

10 CHAIRMAN GRIFFON: Right.

11 DR. MAURO: Unless there was some,  
12 you know, rationale for it. But we can try to  
13 track it down and give that to you.

14 MR. FARVER: Sometimes the people  
15 that do these AWE cases are not very thorough.

16 DR. MAURO: You better be careful  
17 what you say. Remember who you're talking  
18 with.

19 (Laughter.)

20 CHAIRMAN GRIFFON: Or timely for  
21 that matter, you know?

22 (Laughter.)

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1 DR. MAURO: That's for sure.

2 CHAIRMAN GRIFFON: Okay, thanks  
3 John.

4 MR. FARVER: So the next one I  
5 have a response to is 183.1. This is a Harry  
6 Hall Marvin Safe Company case.

7 DR. ULSH: How many of those can  
8 there be?

9 MR. FARVER: Just one of two  
10 approximately. The finding was modeled.  
11 External photon dose appears to be bounding  
12 but transparency is lacking regarding  
13 calculational details in the DR and in OTIB-4.  
14 NIOSH responds that NIOSH agrees on the lack  
15 of clarity in the OTIB and on how the DCFs  
16 were applied to develop the dose in the dose  
17 table. It agrees with SC&A that the dose is  
18 bounding. The next version of the OTIB did  
19 not have organ DCFs already built into the  
20 dose tables so this issue has already been  
21 addressed. NIOSH does not agree that the  
22 organ selection was unclear. The end of the

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1 second paragraph of dose reconstruction  
2 overview section states, "The external dose to  
3 the kidney was determined by using the dose  
4 calculated for the liver." The only concern I  
5 have is I didn't find the word "liver"  
6 mentioned in the DR report so I didn't find  
7 the wording they had quoted as being in that  
8 DR report.

9 CHAIRMAN GRIFFON: That's curious.

10 MR. FARVER: Which is probably why  
11 we sent it to match up.

12 CHAIRMAN GRIFFON: So what is the  
13 next step here? NIOSH has to show you where  
14 they found the findings?

15 MEMBER RICHARDSON: They're  
16 explicit here. They're saying the end of the  
17 second paragraph of a section. Do we have it?

18 CHAIRMAN GRIFFON: We can just  
19 look it up right now.

20 DR. ULSH: Scott, why don't you  
21 pull it up in parallel if you can.

22 MR. SIEBERT: Yes, I'm pulling it

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1 up. I'm not seeing it which is kind of  
2 annoying me here.

3 MEMBER RICHARDSON: So is that --  
4 regardless of whether it appears, it's sort of  
5 -- this is an issue of kind of documentation  
6 and clarity in the report is primarily what it  
7 is?

8 MR. FARVER: Probably more of a QA  
9 if it's not in there.

10 DR. MAURO: Using the liver as a  
11 surrogate for the kidney for an external dose  
12 certainly is reasonable. I guess, I mean from  
13 a technical perspective the fact that you're  
14 making that case, you know, we agree. I guess  
15 it wasn't necessarily in the DR report.

16 MR. FARVER: Correct.

17 DR. ULSH: I don't know if I agree  
18 with the QA on that one. I agree that it's a  
19 clarity issue. I mean, if we did the right  
20 thing but we just didn't give enough  
21 explanation that seems to me to be --

22 MR. FARVER: Yes, I guess it would

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1 be a QA if we put the wrong organ in.

2 DR. ULSH: Right.

3 CHAIRMAN GRIFFON: Right. But did  
4 you find the statement in the DR? It sounds  
5 like it's not in there. That's odd.

6 MR. SIEBERT: No, and I'm not real  
7 happy at this moment.

8 MR. FARVER: And usually they will  
9 put something in there saying they're using  
10 the liver as a surrogate for the  
11 reconstruction.

12 MEMBER RICHARDSON: Can we change  
13 the yellow, I mean put something underneath it  
14 which says that we kind of agree that it was a  
15 reasonable estimation but disagree that that  
16 text is there?

17 CHAIRMAN GRIFFON: Close it out.

18 MR. FARVER: I have no problem  
19 closing it.

20 DR. MAURO: Yes. Because you're  
21 correct, in all of the DR reports I ever  
22 reviewed whenever you used a surrogate organ

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1 there was very clear explanation that that's  
2 what you did.

3 MEMBER RICHARDSON: Did I hear  
4 someone say that was closed?

5 MEMBER MUNN: We're closing it.

6 CHAIRMAN GRIFFON: I guess the  
7 only QA issue in this case is how did you put  
8 that in your response. We'll let Scott think  
9 about that one.

10 (Laughter.)

11 MR. SIEBERT: Yes, my wheels are  
12 turning over here.

13 CHAIRMAN GRIFFON: We would never  
14 make that mistake.

15 MEMBER MUNN: No. Merry  
16 Christmas, Scott.

17 CHAIRMAN GRIFFON: All right,  
18 moving on.

19 MR. FARVER: Moving on, 183.2.  
20 Single-pairing all safe case. Reviewer  
21 questions whether OTIB-4 should be used in  
22 this case as compensated and there's a lengthy

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1 explanation there by NIOSH. And we agree with  
2 that, that was --

3 DR. MAURO: I think that's closed.

4 MR. FARVER: That was that short  
5 time period. Yes, so we closed that one.

6 MR. SIEBERT: Okay, it's double  
7 closed now.

8 CHAIRMAN GRIFFON: Yes, it was  
9 closed before. No further action. That  
10 should put SC&A agrees but no further action.

11 MR. FARVER: Okay.

12 CHAIRMAN GRIFFON: Double closed.

13 MR. FARVER: Double closed.

14 CHAIRMAN GRIFFON: 183.3 then.

15 MR. FARVER: PFG exposures.

16 DR. MAURO: We just did that one.  
17 I mean before.

18 MR. FARVER: This is the same as  
19 the AWE one before about PFG exposure?

20 MR. SIEBERT: Like 179.2, correct.

21 CHAIRMAN GRIFFON: So that's  
22 closed as well?

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1 MR. FARVER: Same as 179 --

2 MR. SIEBERT: The assumption of no  
3 PFGs at AWEs.

4 DR. MAURO: Yes. We recommend you  
5 close. In light of the fact that that new  
6 language is now in OTIB-006.

7 CHAIRMAN GRIFFON: Right. Okay.  
8 Look at this, making progress at the end of  
9 the day.

10 MR. FARVER: Well, we'll see what  
11 we can do to slow things down a little.

12 CHAIRMAN GRIFFON: All right,  
13 thank you. We'll see if MCNP, if it slows  
14 right down.

15 MR. FARVER: Well, not too much  
16 because the action is for us to provide you  
17 our SC&A calculations and we didn't do that.

18 CHAIRMAN GRIFFON: Okay.

19 DR. MAURO: Doug, I remember on a  
20 number of occasions Bob Anigstein providing  
21 his MCNP calculations for a variety of issues.  
22 Perhaps we did not do it on this one.

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1                   MR. FARVER:    I don't believe we  
2                   did on this one, John.

3                   DR. MAURO:    We've got to take care  
4                   of that.

5                   DR. ULSH:       185.2, thanks.    I  
6                   recall Bob Anigstein and MCNP and the exchange  
7                   of files in relation to OCAS TIB-10 in the  
8                   Procedures Subcommittee.   That might be what  
9                   you're thinking of.

10                  DR. MAURO:    Yes, yes.

11                  DR. ULSH:    Never mind.

12                  MR. FARVER:   Some of these we'll  
13                  close but some of these we won't, how's that?

14                  CHAIRMAN GRIFFON:   Some of these  
15                  we just have no NIOSH response though, right?

16                  DR. MAURO:    Yes.

17                  CHAIRMAN GRIFFON:   Okay.

18                  MR. FARVER:    So are we up to date  
19                  now?  Are you ready to go?  185.5 was the next  
20                  response.    And post-operational intakes and  
21                  intakes from ingestion were not explicitly  
22                  included.  And I'm going to have to defer this

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1 one later to Dr. Mauro because I don't have  
2 the answer to this, so.

3 DR. MAURO: Yes, I didn't look at  
4 this.

5 MR. FARVER: I know, John. It's  
6 my fault, I didn't tell you about it.

7 CHAIRMAN GRIFFON: I'm just going  
8 to highlight it. This should have been  
9 highlighted from before I guess. So I'll  
10 leave it as an action for SC&A.

11 MR. KATZ: Next meeting?

12 CHAIRMAN GRIFFON: Next meeting.

13 MR. FARVER: 186.1, internal doses  
14 are likely to have been understated. The  
15 claim was compensated based on the dose  
16 assigned so there was no need to determine if  
17 additional exposure may have occurred. I  
18 guess the response is true, you know, they had  
19 enough dose. The only comment we have is that  
20 the assumed limiting dust exposure of 33 MAC  
21 in the TBD may not have captured the upper  
22 bound of the airborne dust exposure at the

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1 Linde site from '47 onward, but this has been  
2 noted in the SC&A review of the TBD. So this  
3 is just a comment.

4 MEMBER RICHARDSON: So is that  
5 closed?

6 MR. FARVER: It's closed. We  
7 can't do anything more with this.

8 DR. ULSH: And there is a Linde  
9 Work Group, so.

10 CHAIRMAN GRIFFON: Yes.

11 MR. SIEBERT: Was that 186.1?

12 MR. FARVER: Yes.

13 MR. SIEBERT: Thank you.

14 CHAIRMAN GRIFFON: And was that  
15 period just voted in the SEC? Yes, the  
16 period, I forget what the period was. Anyway.

17 DR. MAURO: All periods now have  
18 SECs I think.

19 CHAIRMAN GRIFFON: For Linde?

20 DR. MAURO: Yes. All three  
21 periods.

22 MEMBER MUNN: Pretty much.

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1                   CHAIRMAN GRIFFON:  So even if it's  
2                   in the Site Profile.  Yes, right.  Right.  But,  
3                   so what am I saying to close this out?

4                   MR. FARVER:  You can just close it  
5                   out.

6                   CHAIRMAN GRIFFON:  And the broad  
7                   issue is being considered by the Site Profile?

8                   MR. FARVER:  Yes.

9                   MEMBER RICHARDSON:  So can I ask  
10                  you about rows in the table like 188, 189,  
11                  190?

12                  MR. FARVER:  Yes.

13                  MEMBER RICHARDSON:  Where it says  
14                  no findings and N/A.

15                  MR. FARVER:  We do not have any  
16                  findings for those reviews.

17                  MEMBER RICHARDSON:  Oh, okay.

18                  CHAIRMAN GRIFFON:  Right,  for  
19                  those cases.

20                  DR. MAURO:  They were perfect.

21                  MEMBER RICHARDSON:  I've  just  
22                  never seen that before.

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1 (Laughter.)

2 MR. FARVER: We try not to put  
3 that in very often.

4 MEMBER MUNN: Rejoice. That's  
5 your Christmas present.

6 MR. FARVER: We send back people  
7 to scour over those.

8 CHAIRMAN GRIFFON: Do we have  
9 anything on 187.3?

10 MR. FARVER: I'm trying to find  
11 it, yes.

12 CHAIRMAN GRIFFON: Or was it NIOSH  
13 action?

14 DR. ULSH: Yes, it looks like  
15 NIOSH action. I'm not aware of any action on  
16 that.

17 CHAIRMAN GRIFFON: Okay.

18 MR. FARVER: 187.3.

19 CHAIRMAN GRIFFON: Looks like a  
20 DOL communication.

21 MR. KATZ: Is that a next meeting?

22 DR. ULSH: Next meeting.

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1 MR. KATZ: Thanks.

2 CHAIRMAN GRIFFON: So the next one  
3 I have is 192.2.

4 MEMBER MUNN: Correct.

5 MR. FARVER: Okay, 192 is -- looks  
6 like a Fernald case. And the finding is basis  
7 for intakes not included in the records which  
8 basically, the IMBA runs are not provided  
9 showing the intake calculations is kind of  
10 what it is based on.

11 CHAIRMAN GRIFFON: The IMBA runs  
12 weren't provided.

13 MR. FARVER: They were not  
14 included in the files.

15 CHAIRMAN GRIFFON: Oh, okay, yes.

16 MR. FARVER: That was part one,  
17 and then part two was that there was no  
18 uranium intake assigned for 1961 through 1965.  
19 And --

20 CHAIRMAN GRIFFON: That's not  
21 really reflected -- yes, that's not really  
22 reflected in this.

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1                   MEMBER MUNN:   Doesn't say that in  
2 here.

3                   CHAIRMAN GRIFFON:   Which is an  
4 important second part.

5                   MEMBER MUNN:   It is kind of an  
6 important second part.

7                   CHAIRMAN GRIFFON:   Yes.   Anyway.

8                   MR. FARVER:   So, you know, NIOSH  
9 gave their response that, you know, they  
10 basically forgot to include the IMBA files  
11 which is, you know, it happens.

12                   CHAIRMAN GRIFFON:   But they don't  
13 respond to that other part you just mentioned.

14                   MR. FARVER:   Correct.   And so, you  
15 know, our response is yes, we agree, you  
16 forgot the IMBA files but there's a dose of  
17 4,800 picocuries per day of uranium intake  
18 that was not included.

19                   MEMBER MUNN:   None of that's  
20 captured in here.

21                   MR. FARVER:   Well no, because it's  
22 all in the original finding of the -- in the

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1 report.

2 CHAIRMAN GRIFFON: That's the  
3 problem sometimes our matrix is --

4 DR. ULSH: So is this a NIOSH  
5 action item? We owe you something?

6 CHAIRMAN GRIFFON: I'm not sure.

7 MR. FARVER: Yes.

8 MS. BEHLING: However, wasn't this  
9 case compensated?

10 MEMBER MUNN: I suspect so. I'd  
11 be surprised if it weren't.

12 MR. FARVER: Yes.

13 MR. SIEBERT: The PoC is above 50  
14 percent.

15 CHAIRMAN GRIFFON: Yes.

16 MR. FARVER: Which is okay but  
17 normally you would say we didn't need to do it  
18 because it already exceeded the dose or the  
19 PoC.

20 MEMBER MUNN: It's another one of  
21 those extra words needed.

22 DR. ULSH: Yes, is it like that

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1 earlier one where it's a clarity issue? I  
2 mean, I'm not sure. I'm not intimately  
3 familiar with this finding. It sounds like we  
4 included a uranium exposure but didn't provide  
5 the supporting IMBA file? Is that?

6 MR. FARVER: Well, first off the  
7 IMBA files were not included.

8 DR. ULSH: Right, I understand.

9 MR. FARVER: Okay. That was part  
10 of it. Now, the second part was apparently  
11 there was a uranium intake because it was  
12 recycled uranium and the contaminants that  
13 were based on that uranium value were all  
14 calculated intakes, and you have those values  
15 and assigned those intakes. You didn't assign  
16 the uranium.

17 DR. ULSH: But what we did include  
18 pushed him over 50. So it sounds like what we  
19 should have said is uranium was not included  
20 because of --

21 MR. FARVER: Correct, if that's  
22 the reason. If the reason is you didn't

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1 include it because it exceeded 50 that's fine.  
2 If the reason that you didn't include it was  
3 because you forgot then that's different.

4 CHAIRMAN GRIFFON: Then it's a QA  
5 thing. I mean, it does seem like it should  
6 have been a best estimate. I mean, if you're  
7 doing 25 IMBA runs. Not necessarily I guess.

8 MR. KATZ: No, that's fine. You  
9 just need I think, like Doug's saying you need  
10 -- normally there's a statement at the end  
11 that says we curtailed research on this case  
12 because it's above the compensable level.  
13 There's no reason to do more work.

14 CHAIRMAN GRIFFON: Yes.

15 MR. FARVER: It just kind of  
16 stands out because you talk about recycled  
17 uranium contaminants and you assign doses for  
18 them but there's no uranium. So it kind of  
19 makes you scratch your head.

20 MR. KATZ: I understand. So it's  
21 not a QA, it's really just a clarity.

22 DR. ULSH: Well, what he's saying

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1 is it might be a clarity issue. It could be  
2 that we didn't mention it because we just  
3 forgot to mention it, or it could be that we  
4 didn't do it because oops, we forgot.

5 MR. KATZ: I know, but I'm just  
6 saying the part about saying this is not a  
7 complete dose reconstruction because we --  
8 that statement is missing it sounds like.

9 DR. ULSH: So how do you want to  
10 proceed? Consider it as a clarity?

11 DR. MAURO: Brant, you can't do  
12 the recycled uranium without doing uranium. So  
13 I mean, the way in which you do -- I mean,  
14 John Stiver is very familiar with this. We  
15 spent a lot of time talking about this on  
16 Fernald. So in order to do the RU  
17 contribution which is what I'm hearing you  
18 must have done the uranium.

19 CHAIRMAN GRIFFON: Well, they did  
20 the intakes of uranium. They didn't calculate  
21 a dose.

22 DR. MAURO: Yes, that's right. You

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1 had to do the intakes of uranium in order to  
2 do the intakes of plutonium, et cetera.

3 CHAIRMAN GRIFFON: Yes. It seems  
4 a little strange that you wouldn't have the  
5 dose. But anyway.

6 DR. ULSH: So what do you want to  
7 do with it, Mark?

8 CHAIRMAN GRIFFON: I mean, either  
9 way it's closed, I just didn't want to figure  
10 out how --

11 DR. ULSH: I understand. The  
12 question is, is it a QA issue.

13 CHAIRMAN GRIFFON: Right.

14 DR. ULSH: I don't know the answer  
15 to that.

16 CHAIRMAN GRIFFON: Right.

17 DR. ULSH: I don't know that we  
18 could really get --

19 CHAIRMAN GRIFFON: Yes, I don't  
20 know that we'd have to exactly.

21 MR. FARVER: I don't know if this  
22 is a cut and paste where you're cutting and

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1 pasting something into an IREP table and maybe  
2 the uranium part got cut off.

3 DR. ULSH: Or maybe we just didn't  
4 do it because it was enough. I don't know.

5 MR. FARVER: I don't know.

6 DR. ULSH: Is it worth it to you  
7 for us to go back and investigate this or do  
8 you just want to?

9 MR. FARVER: I don't know. Scott,  
10 what's it worth to you? It's Christmas, be  
11 generous to me and then you won't have to do  
12 it.

13 MR. SIEBERT: Well, I'm looking at  
14 the fact that it was September of 2005, so you  
15 know, trying to figure out the dose  
16 reconstructor's thought process six years ago  
17 may be a little difficult.

18 MR. FARVER: I'm not sure there's  
19 that much you can do about it.

20 DR. MAURO: Well, Doug, do you  
21 know whether we were -- very often when we do  
22 a review of a case we try to match the numbers

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1 first in other words to see whatever the organ  
2 is, see if we can -- see okay, we can match  
3 the numbers, we know how you did it, and then  
4 we move on to determine whether or not we  
5 agree that that's a good way to do it or did  
6 you follow your instructions. What I'm  
7 hearing here is that, you know, if we match  
8 their numbers that means, you know, that we  
9 figured out what the intakes were and matched  
10 their numbers.

11 And so I guess what I'm asking is  
12 does the doses that they actually calculate  
13 for this person that was compensated, did we  
14 match their numbers and was it only, you know,  
15 just the plutonium? I guess I'm having a  
16 little trouble understanding how we can get a  
17 finding on this without actually  
18 reconstructing their, you know, matching their  
19 numbers.

20 MEMBER MUNN: They said the  
21 results were recreated from the file.

22 DR. MAURO: Because very often,

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1 you know, I know that when -- I will try to  
2 match their numbers and I won't even look at  
3 your IMBA runs. I will just say, okay, here  
4 are the assumptions and I'll, you know, go  
5 ahead and try to match your doses and I won't  
6 look at the IMBA runs. But you're saying the  
7 IMBA runs were lacking from this file.

8 MR. FARVER: Correct.

9 DR. MAURO: But we could, I know  
10 we often audit to see if, you know, look at  
11 their protocol that was described and the fact  
12 that the IMBA runs aren't there as part of the  
13 documentation, I guess that's a deficiency.  
14 It's nice to have that there but it's not  
15 essential for us to do our audits.

16 CHAIRMAN GRIFFON: Right, but  
17 you're missing the one primary point, John,  
18 which is that they, everything was there  
19 except the uranium doses.

20 DR. MAURO: All the IMBA runs are  
21 there except.

22 CHAIRMAN GRIFFON: Well, I mean,

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1 even the -- I imagine even the uranium IMBA  
2 run was there but they didn't sum uranium  
3 doses. Is that what you're saying?

4 DR. MAURO: Oh, I missed the  
5 point. Okay. All right.

6 CHAIRMAN GRIFFON: Maybe? I don't  
7 know. I don't know enough about -- I'm  
8 speculating here, but based on the little  
9 matrix items. I don't know the case  
10 intimately.

11 MEMBER MUNN: It says the 25 IMBA  
12 files were inadvertently left out of the claim  
13 file.

14 DR. ULSH: Right, but once we  
15 provided those the uranium is still not there  
16 I think is the situation, right?

17 CHAIRMAN GRIFFON: Yes.

18 MEMBER MUNN: Yes.

19 DR. ULSH: And so the apparent  
20 situation is we have a dose reconstruction  
21 where we did the recycled, the contaminants in  
22 the recycled part and the case is over 50. The

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1 question is did we also do the uranium and  
2 forget to put it in or is this a situation  
3 where we didn't need it so we didn't include  
4 it but we should have stated that. And going  
5 back six years.

6 CHAIRMAN GRIFFON: Yes, my point  
7 is that you would have had to do the uranium  
8 first, right? To get the intake anyway.

9 DR. ULSH: Well, that's what  
10 John's saying.

11 CHAIRMAN GRIFFON: Yes, not dose  
12 necessarily.

13 MR. FARVER: Well and the problem  
14 that I have with it is everything's based on  
15 uranium.

16 CHAIRMAN GRIFFON: That's a  
17 separate issue.

18 DR. ULSH: That's a TBD. Or maybe  
19 an SEC.

20 CHAIRMAN GRIFFON: SEC issue,  
21 right, right.

22 MR. HINNEFELD: They would have

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1 had to do the uranium intake.

2 CHAIRMAN GRIFFON: The others are  
3 based off the uranium intake, but you wouldn't  
4 have had to do the doses necessarily.

5 MR. HINNEFELD: What site is this  
6 from?

7 MR. FARVER: Fernald.

8 DR. ULSH: I should shut up too,  
9 I'm conflicted at Fernald too.

10 MR. SIEBERT: This is Scott. It's  
11 clear that the uranium had to have been -- the  
12 barium intake had to have been calculated  
13 because the recycled components are based on  
14 ratios from uranium.

15 CHAIRMAN GRIFFON: Agreed, yes.

16 MR. SIEBERT: And there's no  
17 doubt. As to why the dose reconstruction did  
18 not include that, as soon as it hits 50  
19 percent if they specifically left it out they  
20 probably should have stated that.

21 CHAIRMAN GRIFFON: Yes.

22 MR. SIEBERT: I agree

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1 wholeheartedly. And I honestly don't think  
2 we're going to be able to figure out six years  
3 down the road whether they looked at it and  
4 said oh, well I don't need to assign it, or I  
5 do. I mean, that's too far down the road to  
6 get in the dose reconstructor's head.

7 CHAIRMAN GRIFFON: I think I agree  
8 with that.

9 DR. ULSH: So we'll make you a  
10 deal, counselor.

11 CHAIRMAN GRIFFON: Possible QA  
12 issue.

13 DR. ULSH: We'll cop to the  
14 clarity issue.

15 MEMBER MUNN: Very good.

16 (Laughter.)

17 DR. MAURO: This is John. I do  
18 have a question for the Subcommittee. This  
19 record, the DR report and its associated  
20 records are really archives that represent,  
21 you know, a very important decision was made  
22 regarding this case. If there is confusion, a

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1 lack of completeness or something about the  
2 archive that seems to be inappropriate or not  
3 complete it seems that for posterity purposes  
4 you try to do the best job you can and tell  
5 them your story. So the fact that we could  
6 sit here right now and sort of figure out, oh,  
7 it looks like everything's okay, is that good  
8 enough?

9 MEMBER MUNN: Is there any problem  
10 with an additional note being added to the  
11 file? Does that create a problem?

12 MR. KATZ: I think the only  
13 problem is that they don't know exactly what  
14 the situation was and they'd have to go do  
15 research to figure it out, and they may not be  
16 able to figure it out, and is it worth the  
17 lift.

18 MEMBER MUNN: I don't see that you  
19 necessarily have to do that. All you'd have  
20 to do is say one of two things. Either there  
21 was a clerical error here or there was just  
22 simply a decision made, just it's an obviously

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1       compensable claim and there's no point in  
2       going any further.       That one of those two  
3       things happened does not in any way affect the  
4       compensability.

5                   MEMBER RICHARDSON:    So in terms of  
6       -- we've bumped up against something which is  
7       what we're trying to decide like is this a  
8       QA/QC issue and one of the questions is how  
9       broadly do we want to use the term quality?  
10      Does quality encompass the quality of the  
11      report and the clarity of the information  
12      transmitted by it, or are we thinking of  
13      quality issues as more omissions or errors  
14      here?   And I don't have a strong opinion but  
15      that's the only thing I'm struggling with here  
16      is do you call this a QA/QC issue or is it a  
17      communication/clarity/style issue.    I mean  
18      clearly we don't know what they did and  
19      because of --

20                   CHAIRMAN GRIFFON:    I don't even  
21      know which bin to put that in yet.

22                   MEMBER RICHARDSON:    Right.    So --

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1                   CHAIRMAN GRIFFON:  It's a separate  
2                   discussion of which is QA.

3                   MEMBER RICHARDSON:  As we kind of  
4                   revisit what we're thinking about as QA/QC we  
5                   might want to think about how large we want to  
6                   cast that net and whether we want to pull in  
7                   things like this.

8                   CHAIRMAN GRIFFON:  Right, right.

9                   MEMBER MUNN:  Well and we may have  
10                  items of this sort that don't clearly fall  
11                  into either one.

12                  MEMBER RICHARDSON:  Right, I meant  
13                  potentially, but I guess for myself personally  
14                  I don't have a clear definition quite yet of  
15                  how broadly we want to throw out quality.  But  
16                  I do think that this is -- we're not going to  
17                  be able to go much further with this other  
18                  than to say that it's unclear what was done.

19                  CHAIRMAN GRIFFON:  For now it  
20                  could be a possible QA issue but not worth  
21                  pulling the string any further.

22                  MEMBER CLAWSON:  I think part of

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1 this comes back to earlier on in this  
2 Subcommittee of explaining their work and why,  
3 you know, that's basically what it just comes  
4 back to. And this is six years old and they  
5 have been trying to continuously improve so  
6 it's back to that situation.

7 MEMBER MUNN: I still don't have  
8 an answer to my question. Is it not just a  
9 simple matter to add a note?

10 MEMBER RICHARDSON: Well, to me  
11 that's fine, but that doesn't make any --

12 MEMBER MUNN: No, it doesn't help  
13 us in the decision.

14 MEMBER RICHARDSON: Well, either  
15 the decision or to understand whether this is  
16 a problem with a particular case or whether  
17 there's --

18 MR. FARVER: There's more like it.

19 MEMBER RICHARDSON: Whether you  
20 would want to kind of point this out as a  
21 process issue which when decisions are made  
22 they need to be documented.

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1                   MEMBER MUNN:    I suggest we add a  
2                   note to the file.  It could have been this, it  
3                   could have been this, we don't know six years  
4                   later.  But in any case.

5                   DR. ULSH:    When you say a note to  
6                   the file, are you talking about putting it in  
7                   the matrix or are you talking about going into  
8                   the claim file and inserting in a note?

9                   MEMBER MUNN:    I was thinking the  
10                  claim file since as we pointed out before  
11                  these really do become archive documents.

12                  DR. ULSH:    Can we do that?

13                  MEMBER MUNN:    And that's what I  
14                  was asking, is it possible for us to do that.

15                  DR. ULSH:    It's a comp case.  It's  
16                  already been dispositioned.

17                  MR. HINNEFELD:   Well, we can put  
18                  it on our side.  It would be on DOL's side.

19                  MR. KATZ:    I don't see the point  
20                  in it.

21                  MR. HINNEFELD:   I really don't see  
22                  a point.

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1                   MR. KATZ:    If it were not a comp  
2                   case and it could come back that would be --  
3                   for a case that's been comped.

4                   MR. HINNEFELD:   There's almost no  
5                   --

6                   MR. KATZ:    No utility to it.

7                   MR. HINNEFELD:   -- practically no  
8                   way that anyone will ever get this back out  
9                   and worry about the completeness of the record  
10                  of a compensatory case.

11                  MEMBER MUNN:   Then we should not  
12                  as a very minimum explain it a little more  
13                  thoroughly in our closure box here?

14                  CHAIRMAN GRIFFON:   Which we just  
15                  did.

16                  MEMBER MUNN:    Thank you.     Our  
17                  Chair has taken care of the whole issue.

18                  CHAIRMAN GRIFFON:   Absolutely.

19                  MEMBER MUNN:    I will now be quiet  
20                  for the rest of the afternoon.

21                  (Laughter.)

22                  CHAIRMAN GRIFFON:   You'll be quiet

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1 for one more minute because I think we're  
2 going to close. I mean, we're on 192.2. I  
3 did say, I put in the explanation that it  
4 could have been a QA by omission, not doing  
5 the complete internal dose reconstruction, or  
6 it could have simply been an intentional  
7 decision by the dose reconstructor to stop the  
8 process without adequate clarification in the  
9 record. So it's one of those two and we'll  
10 just leave it at that. Yes. Alright. And, I  
11 mean the only thing I would ask is do we have  
12 any more on 192.2? I think there's just an  
13 observation.

14 MR. FARVER: No.

15 CHAIRMAN GRIFFON: There's nothing  
16 else to -- yes, observations. I don't even  
17 know what we're doing with observations.

18 MR. FARVER: We do not have to  
19 respond.

20 CHAIRMAN GRIFFON: Well, the one  
21 says no further action anyway, right? So. And  
22 I would argue that this might be a good time

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1 to stop, right? We, I think --

2 MR. FARVER: Unless you just want  
3 to go to 193.1 and 194.1 and say that we  
4 concur with their answers.

5 CHAIRMAN GRIFFON: Well, you  
6 already did that. No further action, SC&A.

7 MR. FARVER: Gosh. Okay.

8 CHAIRMAN GRIFFON: Oh, wait a  
9 second, that's not true on --

10 MR. SIEBERT: 194.1.

11 CHAIRMAN GRIFFON: 194.1, do you  
12 concur on that one?

13 MR. FARVER: Yes.

14 CHAIRMAN GRIFFON: Okay, so that's  
15 new.

16 MR. FARVER: And then I would  
17 close.

18 CHAIRMAN GRIFFON: Can you tell us  
19 what 194.1 is about before we close it?

20 MR. FARVER: We were basically  
21 unable to confirm the source of photon  
22 uncertainty applied to the skin cancer and

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1 then they explained it. And I think part of  
2 this arises because this is an old case. And  
3 they used a combination of correction factors.  
4 And it just wasn't very clear how they came up  
5 with that correction factor of 1.43. That's  
6 because they combined a couple.

7 CHAIRMAN GRIFFON: Okay.

8 MR. SIEBERT: Right. The normal  
9 correction factors we'd use were combined for  
10 a magical number without necessarily that  
11 being explained along the way. So it would be  
12 easy to understand why it wasn't seen easily.

13 CHAIRMAN GRIFFON: Okay. So  
14 that's closed then. And unless Doug wants to  
15 continue.

16 MEMBER MUNN: 194.3?

17 CHAIRMAN GRIFFON: He's hot, he's  
18 on a roll.

19 MR. FARVER: Let me look at my  
20 answer before I say I'll continue with it.

21 CHAIRMAN GRIFFON: Follow-up on  
22 NIOSH response. Oh, you've got your answer.

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1                   MR. FARVER:     Okay, we'll concur  
2     with that one too.     It's basically because  
3     there's just so much data that a day or two  
4     either way really doesn't matter.     There's  
5     little change over the intake.     We really are  
6     kind of quibbling about intake date.

7                   CHAIRMAN GRIFFON:   Okay.

8                   MEMBER RICHARDSON:   What number is  
9     this?

10                  MR. FARVER:     194.3.

11                  CHAIRMAN GRIFFON:   This is on a --

12                  MEMBER MUNN:     Fernald.

13                  CHAIRMAN GRIFFON:   It is still  
14     Fernald?

15                  DR. ULSH:        192 was Fernald.     Is  
16     194 Fernald as well?

17                  CHAIRMAN GRIFFON:   I don't know.

18                  MEMBER MUNN:       It says 94 is  
19     Fernald.

20                  MR. FARVER:     Fernald.

21                  CHAIRMAN GRIFFON:   Okay, thank  
22     you.

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1                   MEMBER MUNN:     94.4 says you may  
2     want to get guidance from the Fernald Work  
3     Group.

4                   CHAIRMAN GRIFFON:  Oh.

5                   MEMBER MUNN:     Which makes me  
6     believe this is probably Fernald.

7                   (Laughter.)

8                   CHAIRMAN GRIFFON:     Thank you,  
9     Wanda.

10                  MEMBER MUNN:     Sorry, just a little  
11     parallel logic.

12                  CHAIRMAN GRIFFON:  It's that time  
13     of day.

14                  MEMBER MUNN:     Yes.

15                  DR. ULSH:     Maybe we should quit.

16                  CHAIRMAN GRIFFON:  Yes, I know.

17                  MR. FARVER:     I don't know if we  
18     want to go into the Fernald thorium issue.

19                  MEMBER MUNN:     Why not?  The night  
20     is young.

21                  DR. ULSH:     You've got no non-  
22     conflicted  NIOSH  representatives  here  to

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1 speak.

2 CHAIRMAN GRIFFON: So wait, is  
3 that 194.3? Are you agreeing with 194.3?

4 MR. FARVER: I'm agreeing with  
5 194.3.

6 CHAIRMAN GRIFFON: Okay. That's  
7 on the uranium, right?

8 MR. FARVER: That's on the -- yes.

9 CHAIRMAN GRIFFON: So unless I  
10 hear something else, I'm closing out 194.3.

11 MEMBER RICHARDSON: Can I just ask  
12 about, there was a decision that was made  
13 there at the end. There was the choice of  
14 calling the sample a false positive or  
15 assuming that it occurred close to the high,  
16 I believe the intake occurred the day before  
17 the bioassay result. And has that been  
18 formalized since this DR was done or does it  
19 still remain, sort of, again, one of these  
20 decision points that in a different case might  
21 have gone -- in the future would go a  
22 different way still? You know what my

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1 question is?

2 MR. FARVER: Yes, I understand  
3 your question. Typically, you would use the  
4 midpoint between two samples and that would be  
5 your intake date, but in this case they went  
6 through the goodness of fit and they had a  
7 better fit if they put it the day before --  
8 the intake the day before the sample, the high  
9 sample. And what brought it to our attention  
10 was that it wasn't even close to the midpoint  
11 date, it was several days off, so why did you  
12 do that? And but, your question is has this  
13 been formalized on a way to do things? I  
14 don't know that it's been formalized anywhere.

15 MEMBER RICHARDSON: I would  
16 imagine not, right?

17 MEMBER MUNN: But this is  
18 claimant-favorable position.

19 MEMBER RICHARDSON: Right, and if  
20 it is, would it be useful to formalize as a  
21 claimant-favorable position to routinely  
22 implement or is this sort of an ad hoc-based,

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1 something that's favorable for this claimant  
2 but not for other claimants?

3 MEMBER MUNN: I would suspect it  
4 might not be favorable for other claimants, as  
5 well. I would think this would be a case-by-  
6 case.

7 MEMBER RICHARDSON: Yes, well  
8 that's where I feel, you know, that's where it  
9 starts to get.

10 MR. HINNEFELD: Well, I mean, it  
11 was the intake date that fit the bioassay  
12 record, is that what it is?

13 MEMBER RICHARDSON: Yes.

14 MR. HINNEFELD: Okay.

15 CHAIRMAN GRIFFON: Fitted the best  
16 I guess, yes.

17 MEMBER RICHARDSON: But I mean,  
18 that's kind of the routine approach.

19 MR. FARVER: Well, I guess what  
20 brought it to our attention was it was,  
21 instead of taking a midpoint between the  
22 samples and calling that the intake date, you

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1 know, one sample a month, another sample a  
2 month later, you split the difference and call  
3 it 15 days before. Instead, you just went to  
4 exactly one day before in the sample, the  
5 highest sample. And it was just kind of  
6 unusual that you would do that instead of  
7 taking the midpoint.

8 MR. HINNEFELD: Well, I think only  
9 in the sense that it really is dependent upon  
10 the subsequent bioassay, you know, because you  
11 have an excretion pattern that you expect from  
12 the intake and if your subsequent bioassay, I  
13 mean, if at the midpoint, apparently if we had  
14 used that intake at the midpoint and in order  
15 to have the bioassay result we had on the  
16 bioassay date, you have this intake back here  
17 and on that excretion curve, presumably the  
18 next bioassay date would have been positive  
19 but was not. Is that what happened?

20 MR. FARVER: Well, I guess part of  
21 this case is there was so much bioassay data  
22 afterwards, it really didn't matter whether it

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1 was one day or three days or five days, it was  
2 still about the same dose. So we were just  
3 curious why it was just picked exactly one day  
4 before, which is unusual.

5 MR. HINNEFELD: Well, I think  
6 normally --

7 MR. FARVER: The reason you give  
8 is good but that's not what was in the -- it's  
9 not documented well in the report.

10 MR. HINNEFELD: Well, I would  
11 think that if you're fitting, if you're doing  
12 a fitted -- on a positive bioassay, if you're  
13 doing a fit, a fitted intake, that -- well,  
14 that person didn't like my argument. If  
15 you're doing a fitted intake -- either that or  
16 it's midnight and somebody turned into -- the  
17 moon came up and somebody turned into a wolf.

18 (Laughter.)

19 MR. HINNEFELD: If you're doing a  
20 fitted intake the fit very often, if you have  
21 a really robust bioassay record, the fit  
22 dictates the intake date because if you have a

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1 lot of bioassay, the bioassay and what your  
2 later subsequent detection levels are and what  
3 your result is compared to detection level  
4 dictates your intake date. And the midpoint  
5 as a presumption is when there is not a  
6 bioassay point that would be essentially  
7 violated by having the midpoint as the intake.  
8 So in other words, if you've got, if your  
9 intake, put your midpoint -- intake at the  
10 midpoint and getting this bioassay result, and  
11 then as the next bioassay result is a non-  
12 detect and your non-detect that's when you  
13 choose the midpoint. If you have an intake on  
14 a particular bioassay date and the next  
15 bioassay take is non-detect and the only way  
16 to get there is to have intake the day before  
17 the original bioassay date, then that's what  
18 we would consider a fit, fitting the bioassay.

19 MR. FARVER: I agree. I mean, I  
20 agree with fitting the data like that, I'm  
21 just --

22 CHAIRMAN GRIFFON: And I think the

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1 argument was if the only way to get a  
2 reasonable fit for this one high -- otherwise  
3 to get a better fit was to drop the high  
4 sample.

5 MR. HINNEFELD: Yes, call it an  
6 outlier and not include it.

7 CHAIRMAN GRIFFON: Right, call it  
8 an outlier. Right.

9 DR. ULSH: And the method, what  
10 Stu described is what we would do on any case,  
11 not just this one.

12 MR. HINNEFELD: Yes, not just this  
13 one. I mean, that is standard. The bioassay,  
14 the intake should fit the bioassay and that's  
15 a combination of magnitude and date. And then  
16 whatever your subsequent bioassay tells you  
17 about is there anything still around on the  
18 subsequent bioassay.

19 MR. FARVER: I mean, it's kind of  
20 a complicated case. You've got five acute  
21 intakes you're trying to fit over a period of  
22 five years. So it's -- with the best of

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1 bioassay data. And our only question was why  
2 did you pick the intake the day before.

3 MR. HINNEFELD: It should be  
4 because that's what fit the data.

5 MR. FARVER: That's fine. It was  
6 not clear.

7 MR. HINNEFELD: And that is the  
8 standard. You know, it's not very often that  
9 we have to fit that many fitted intakes.

10 MR. FARVER: No, that's a messy  
11 one.

12 MR. HINNEFELD: Yes, that's why no  
13 one likes to do. Those are the ones that take  
14 over a week.

15 MR. FARVER: And those are the  
16 ones you can get into a lot of professional  
17 judgment on where they're kind of messy and  
18 there's a lot of intakes.

19 MR. HINNEFELD: Yes, best fits are  
20 always, even what is the best fit because the  
21 calculated best fit a lot of times doesn't  
22 look like the best fit.

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1                   MR. FARVER:   And one of the things  
2   I'm looking forward to seeing on your  
3   comparison is how you handle cases like this  
4   that are kind of messy and complicated, how do  
5   they come out compared to what ORAU does, what  
6   NIOSH does.  Let's look and see what comes out  
7   of the numbers.

8                   MEMBER RICHARDSON:   So, the one  
9   thing would be the sentence in here that in  
10  NIOSH's response it says, NIOSH agrees that  
11  this is not considered a standard practice.  So  
12  if that, I mean maybe that needs to be revised  
13  or else I'm not following.

14                  MR. HINNEFELD:   I sure had a good  
15  story going there, didn't I.

16                  MR. SIEBERT:   This is Scott.  I  
17  believe that statement was put in saying that  
18  normally we don't have to fit the bioassay  
19  data that closely because they do fall below  
20  if we're doing with acute intakes like that.  
21  In a case where this, although we would look  
22  at that in all cases, it's unusual we have to

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1 move from the midpoint because of the  
2 subsequent bioassay. That's probably the  
3 better way to put it. Maybe not.

4 MEMBER RICHARDSON: If there's a  
5 known intake then you would usually do a  
6 series of bioassays after it to establish the  
7 excretion.

8 MR. SIEBERT: Correct.

9 MEMBER RICHARDSON: So that would  
10 seem, that to me would be the standard, I  
11 would imagine.

12 MR. HINNEFELD: The best intake.  
13 The best instance is that there was a known  
14 event with an intake, you know the intake  
15 date. That's the best instance. But quite  
16 often with a positive bioassay, there is not  
17 that event. And so you have to decide when  
18 did it occur. Well, it occurred sometime  
19 since the last bioassay apparently.

20 MEMBER RICHARDSON: But even if  
21 you have a positive -- if you have a positive  
22 bioassay result you would usually follow up

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1 with a series of other bioassays afterwards to  
2 help understand --

3 MR. HINNEFELD: To help understand  
4 the curve.

5 MEMBER RICHARDSON: -- when it  
6 happened.

7 MEMBER MUNN: It's easy when you  
8 have a single incident. When you have  
9 multiple acute exposures over several years  
10 prior to this one --

11 CHAIRMAN GRIFFON: It's not always  
12 true that if you have a positive like at  
13 Fernald you wouldn't necessarily do follow-up  
14 because they had a fair amount of positives  
15 there, or you wouldn't do --

16 MR. HINNEFELD: There were sites  
17 where a positive meaning detectable --

18 CHAIRMAN GRIFFON: Right.

19 MR. HINNEFELD: -- was not an  
20 investigation point.

21 CHAIRMAN GRIFFON: Right, that's  
22 what I was trying to say.

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1                   MR. HINNEFELD:     That you could  
2     have a positive bioassay that would -- a  
3     positive bioassay.  If it didn't rise to the  
4     investigation level there wouldn't be follow-  
5     up.  There were such like that.

6                   CHAIRMAN GRIFFON:   Right.  So it  
7     may not necessarily be the case then.  Anyway,  
8     yes, I think that is confusing, that sentence  
9     in there, but notwithstanding that I think  
10    you're comfortable with the argument on this  
11    case?

12                  MR. FARVER:     Yes.  It's an unusual  
13    case.

14                  CHAIRMAN GRIFFON:   Right.

15                  MEMBER RICHARDSON:   That was the  
16    hardest case of agreement.

17                  MR. HINNEFELD:     We strenuously  
18    agree.

19                  MEMBER MUNN:     Closed.

20                  CHAIRMAN GRIFFON:   All right, so  
21    we close that and we close this meeting, I  
22    think.  Is there anything else we want to --

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1 any other issues before we officially close  
2 the meeting? Okay. Then let's wrap it up for  
3 today. Before we wrap it up today, do we want  
4 to look at calendars and try to pick a --

5 MR. KATZ: Why don't we do that?

6 CHAIRMAN GRIFFON: -- a next date.  
7 And a lot of it is going to be depending on  
8 obviously Brant's timeline for getting some of  
9 this work done and stuff. Other conflicting.  
10 January 1st is open.

11 DR. MAURO: I'm going to break,  
12 everyone. Have a happy holiday.

13 CHAIRMAN GRIFFON: Wait, John, we  
14 need your calendar.

15 DR. MAURO: I'll just wait to hear  
16 from Doug.

17 CHAIRMAN GRIFFON: Alright.

18 DR. MAURO: Thank you. Bye bye.

19 MEMBER MUNN: Clever you.

20 MR. FARVER: Put me in charge.

21 CHAIRMAN GRIFFON: Well, I mean  
22 realistically we're going to have to look at

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1 least at sort of the -- well, the end of  
2 February is the meeting. I think we're at --  
3 the full Board Meeting, right. Can we do  
4 something in the middle of February? Is that  
5 realistic to have?

6 MR. HINNEFELD: That doesn't give  
7 us much time. I mean, this year's done pretty  
8 much. You know, there's not going to be a  
9 lot. So you're looking into January.

10 CHAIRMAN GRIFFON: Middle of  
11 March?

12 MR. HINNEFELD: Middle of March is  
13 possible.

14 CHAIRMAN GRIFFON: End of March is  
15 better.

16 MR. HINNEFELD: Yes.

17 MR. FARVER: Next Board Meeting?

18 MR. HINNEFELD: Twenty-eighth and  
19 29th of February and the 1st of March.

20 MR. FARVER: Because you'll  
21 probably be tied up with stuff for the Board  
22 Meeting.

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1                   CHAIRMAN GRIFFON:       How about  
2       toward the end of March then?

3                   MEMBER MUNN:    How about the middle  
4       of March instead of the end of March?

5                   CHAIRMAN GRIFFON:    Why, are you  
6       conflicted at the end of March?

7                   MEMBER MUNN:    Kind of.  There's a  
8       nice Wednesday, the 14th.

9                   CHAIRMAN GRIFFON:    There's a nice  
10      Wednesday.

11                  MR. HINNEFELD:    Sounds like you're  
12      ordering wine.

13                  MR. KATZ:     The 15th is TBD-6000.  I  
14      don't know if that really affects anyone.

15                  MEMBER MUNN:    That will affect me.

16                  CHAIRMAN GRIFFON:    You don't like  
17      the 16th so much.

18                  MEMBER RICHARDSON:    The end of the  
19      week would probably be better.

20                  CHAIRMAN GRIFFON:    Better for me,  
21      yes.

22                  MEMBER MUNN:    You like the 16th

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1 better than the 14th? I'll buy that. St.  
2 Pat's is the next day.

3 MR. KATZ: How's that with you,  
4 Brant? The 16th?

5 DR. ULSH: I don't think my  
6 calendar goes out that far right now. Let me  
7 look. I can't get to it right now. Let's go  
8 ahead and say it.

9 MR. HINNEFELD: There's nothing  
10 programmatically on the agenda, I don't think.

11 CHAIRMAN GRIFFON: We can always,  
12 if something comes up we can change this, but  
13 say tentatively March 16th, yes.

14 MEMBER MUNN: Which means --

15 MEMBER CLAWSON: While you have  
16 the calendar out, though, what does the end of  
17 January look like?

18 MR. HINNEFELD: That'll be in-  
19 person here I suppose, right?

20 CHAIRMAN GRIFFON: Is that it for  
21 us or do you have -- is this a separate issue?

22 MEMBER CLAWSON: No, I'm good.

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1 That's a separate issue.

2 CHAIRMAN GRIFFON: Alright. So  
3 March 16th and I'm sure we'll see each other  
4 before then but that is our next meeting. And  
5 I will also email these revised matrices out  
6 within the next 45 minutes, because if I don't  
7 do it now it ain't getting done.

8 MEMBER MUNN: That would be great.  
9 It really would be great. Good.

10 CHAIRMAN GRIFFON: Okay, thanks.  
11 Meeting adjourned.

12 MR. KATZ: Thank you, everybody.

13 (Whereupon, the above-entitled  
14 matter went off the record at 4:17 p.m.)

15

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