

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

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ADVISORY BOARD ON RADIATION AND  
WORKER HEALTH

+ + + + +

SUBCOMMITTEE ON PROCEDURES REVIEW

+ + + + +

TUESDAY  
NOVEMBER 17, 2009

+ + + + +

The meeting convened in the Zurich Room of the Cincinnati Airport Marriott Hotel, 2395 Progress Drive, Hebron, Kentucky at 10:00 a.m., Wanda Munn, Chair, presiding.

PRESENT:

WANDA MUNN, Chair  
MICHAEL GIBSON, Member\*  
MARK GRIFFON, Member\*  
PAUL ZIEMER, Member

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ALSO PRESENT:

TED KATZ, Designated Federal Official  
NANCY ADAMS, Contractor  
HANS BEHLING, SC&A\*  
KATHLEEN BEHLING, SC&A\*  
ZAIDA BURGOS, NIOSH\*  
STUART HINNEFELD, OCAS  
EMILY HOWELL, HHS  
JENNY LIN, HHS  
JOYCE LIPSZTEIN, SC&A\*  
STEPHEN MARSCHKE, SC&A  
SCOTT SIEBERT, ORAU\*  
MATTHEW SMITH, ORAU\*  
ELYSE THOMAS, ORAU\*

\*Present via telephone

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

2 (10:02 a.m.)

3 MR. KATZ: This is the Advisory  
4 Board on Radiation and Worker Health. This is  
5 the Procedures Subcommittee. My name is Ted  
6 Katz, and I'm the Designated Federal Official  
7 for the Advisory Board. And starting with  
8 Board members in the room, roll call.

9 CHAIR MUNN: Wanda Munn, chair of  
10 the Subcommittee.

11 MEMBER ZIEMER: Paul Ziemer,  
12 Subcommittee member.

13 MR. KATZ: And on the line?

14 MEMBER GIBSON: Mike Gibson,  
15 Subcommittee member.

16 MEMBER GRIFFON: Mark Griffon,  
17 Subcommittee member.

18 MR. KATZ: Okay and then NIOSH  
19 ORAU team in the room?

20 MR. HINNEFELD: Stu Hinnefeld,  
21 Interim Director of the Office of Compensation  
22 Analysis.

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1 MR. KATZ: And on the line? NIOSH  
2 ORAU team?

3 MS. THOMAS: Elyse Thomas, ORAU.

4 MR. KATZ: Welcome, Elyse.

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

7 MR. KATZ: Hi, Scott.

8 MR. SMITH: Matt Smith, ORAU team.

9 MR. KATZ: All right, SC&A in the  
10 room?

11 MR. MARSCHKE: Steve Marschke.

12 MR. KATZ: And SC&A on the line?

13 DR. BEHLING: Hans Behling.

14 MS. LIPSZTEIN: And Joyce  
15 Lipsztein.

16 MR. KATZ: Hans Behling, Joyce  
17 Lipsztein; is Kathy Behling on, too?

18 MS. BEHLING: Yes, Kathy Behling,  
19 I'm here.

20 MR. KATZ: Okay, sorry, you got  
21 squashed out by other affirmations. And HHS  
22 and other government officials in the room?

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1 MS. HOWELL: Emily Howell, HHS.

2 MS. LIN: Jenny Lin, HHS.

3 MR. KATZ: And on the line?

4 MS. ADAMS: Nancy Adams, NIOSH  
5 contractor.

6 MR. KATZ: Any other federal  
7 officials or contractors on the line?

8 Okay, and any members of the  
9 public on the line? All done, okay, Wanda?

10 CHAIR MUNN: I hope all of you  
11 have received the email communications that  
12 were flying back and forth yesterday, several  
13 of which are pertinent to what we are doing  
14 today. The first two things I'd like to have  
15 us make a decision about is where on the  
16 agenda we want to address the information that  
17 Ted sent us with respect to PERs, and  
18 secondarily, the comments with respect to the  
19 letter that Paul provided as our second annual  
20 report to the Secretary. I hope you received  
21 my comments on that, some concern about the  
22 very last paragraph on the first page of that

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1 letter.

2 I'd like to address both of those  
3 items fairly early before we actually get into  
4 the nitty gritty of our action item list.  
5 Does anyone have any concern about our doing  
6 that first, and which of the items are the  
7 items you would prefer to address first?

8 MEMBER ZIEMER: Whatever you want  
9 is fine with me.

10 CHAIR MUNN: Thank you. Not  
11 hearing any concerns one way or the other,  
12 let's do address the issue of the PERs. Ted  
13 had suggested, I think quite appropriately,  
14 that the request of briefing from SC&A as to  
15 how they anticipate addressing the PERs, and  
16 Ted provided a set of specs that he had  
17 suggested.

18 I would ask of Steve Marschke, who  
19 I assume is going to do that for us -- right?

20 Is that your --

21 MR. MARSCHKE: Probably Kathy or  
22 Hans will probably do the -- your addressing

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1 of the PER question.

2 CHAIR MUNN: Okay, very good.

3 Before we do that, I guess I'd  
4 like to make sure that we are aware of where  
5 we are with our database, even before we get  
6 to that. Steve has a report for us with  
7 respect to our status with items, as well as  
8 where we are with the database itself.  
9 Apparently, we are not yet where we need to be  
10 with the electronic version. Steve, do you  
11 want to bring us up to date?

12 MR. MARSCHKE: Yes, NIOSH has been  
13 bringing the database over from the ORAU  
14 computer to the CDC computer. And last week  
15 we got access to the database and were able to  
16 -- we had write access to the database, so we  
17 were fat, dumb, and happy last week. But then  
18 when I started preparing for this meeting and  
19 preparing the summary sheet which I like to  
20 send out, either myself or Nancy Adams usually  
21 sends out, when I was preparing a summary  
22 sheet I realized that we were going backwards,

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1 and that the database was reflecting the  
2 database as it stood prior to the August  
3 meeting, and it did not reflect any of the  
4 changes that were made during the August  
5 meeting or during the October meeting.

6 Now we knew it wasn't going to  
7 include any of the changes during the October  
8 meeting because during that meeting we were  
9 not live. But we had anticipated including  
10 the October changes -- including the August  
11 changes because during the October meeting we  
12 weren't able to -- it did reflect those.

13 So I emailed the Subcommittee, and  
14 I emailed NIOSH; I forgot to email Nancy, I  
15 apologize, and basically I stopped updating  
16 the database at that point because I didn't  
17 know what we were going to do, whether we were  
18 going to try to replace the current database  
19 with a newer version from the ORAU machine or  
20 whether we were going to try to update it by  
21 hand. So basically now we are kind of waiting  
22 now to take the next step. We have -- the

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1 electronic database as it is available  
2 currently on the NIOSH computer or the CDC  
3 computer does not reflect the latest changes.

4 And as to the latest email I sent out, I  
5 think there are about 14 open issues that  
6 during the August meeting we had dispositioned  
7 one way or the other. Another, I think, four  
8 or so in progress issues that we had  
9 dispositioned one way or the other, and the  
10 database does not reflect that.

11 So I guess there are two options  
12 to go. One is somebody sit down with the  
13 minutes of the August meeting and try to  
14 update the database. The other one is to go  
15 back to the ORAU version that would show up  
16 there and bring it over again and try and  
17 update it that way.

18 But that is where we stand, and  
19 then once we get it to the end of the August  
20 meeting, then we have to do the update by hand  
21 for the October meeting, and we probably do -  
22 - any updates that get completed today will

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1 have to be entered by hand as well. I don't  
2 know if we want to update the database today,  
3 how it gets reflected.

4 CHAIR MUNN: That is an extremely  
5 tedious process. I would hope that we could  
6 in any event be able to bring over the  
7 database which was complete after the August  
8 meeting. Even if we have to enter the October  
9 data by hand, that is tedious, and --

10 MR. MARSCHKE: The October data,  
11 we always knew we were going to have to do  
12 that by hand. And if we have to do the August  
13 data, that would be quite a bit of a job, and  
14 -- just to make sure that we got it correct  
15 because I looked at the August transcript and  
16 it's 300 pages long. So that would be a very  
17 tedious job for someone to sit down and go  
18 through there and make sure, but those are the  
19 options.

20 CHAIR MUNN: Do we have anybody  
21 from that side of the house that can give us a  
22 feel about when they might be able to -- since

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1 we at one time had the database, following the  
2 August meeting.

3 MR. MARSCHKE: Well, that was on  
4 the ORAU side. The updates, remember in the  
5 August meeting, everybody at that meeting was  
6 still looking at the database on the ORAU.

7 CHAIR MUNN: Right.

8 MR. MARSCHKE: We did have it  
9 during the October meeting, and we were on the  
10 CDC machine on the October meeting. And it  
11 was up to date at that point. So it might be  
12 already over on the NIOSH side. It'd just be  
13 pointing to the wrong file, data set,  
14 someplace.

15 MR. HINNEFELD: Once they find the  
16 right files, it won't be -- that is the key  
17 element, is finding the right version of it.  
18 And I don't know how they distinguish these.  
19 It might be that they have modified dates on  
20 the properties in the files or something, I  
21 don't really know. But if Tom is coming down  
22 here, I don't know that he's going to be able

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1 to do that today, but he might. He has a lot  
2 of access to computer servers.

3 CHAIR MUNN: That would be great.

4 Do we have any feel for when Tom might be  
5 here?

6 MR. HINNEFELD: No, I didn't know  
7 he was coming. He was sick yesterday, and I  
8 didn't know for sure he was at work today.

9 CHAIR MUNN: But we think he is  
10 going to be here?

11 MR. HINNEFELD: Nancy said he's on  
12 the way.

13 MS. ADAMS: This is Nancy Adams.  
14 I got an email from Leroy last night because I  
15 sent him an email about the database. And he  
16 said Tom was coming over this morning. I  
17 emailed Tom, and I tried to get hold of him,  
18 but I've been unsuccessful. So I don't know  
19 when he might be there.

20 CHAIR MUNN: Well, we'll just hope  
21 that he might show up, and when he does,  
22 perhaps we will stop whatever we are doing at

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1 the time and give him an opportunity to do  
2 everything possible to bring us up to date.

3 Yes, Paul.

4 MEMBER ZIEMER: I have one  
5 question. Steve, can you tell us are the  
6 numbers we used, the statistical numbers that  
7 we used in our report, up to date as far, if  
8 you go back to the slide you just showed, are  
9 we up to date on the numbers we provided for  
10 the Secretary's report, relative to the -- I  
11 thought we were.

12 CHAIR MUNN: We were up to date as  
13 of the time the letter was drafted, which was  
14 just before the October meeting.

15 MEMBER ZIEMER: Right.

16 MR. MARSCHKE: Before the October  
17 meeting, yes. I'd say those numbers were good  
18 --

19 CHAIR MUNN: They were good  
20 through August.

21 MR. MARSCHKE: Through August,  
22 right.

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1 CHAIR MUNN: Correct.

2 MR. MARSCHKE: Correct.

3 MEMBER ZIEMER: They didn't  
4 reflect October changes?

5 MR. MARSCHKE: They did not  
6 reflect October changes.

7 MEMBER ZIEMER: I sort of recall  
8 you sitting here in the meeting and changing  
9 the numbers on the chart.

10 MR. MARSCHKE: In the August  
11 meeting, I did that. In the October meeting,  
12 I don't recall doing that. I don't think I  
13 did that because I don't think we had -- it  
14 was not -- the database was on the CDC machine  
15 at that time --

16 MEMBER ZIEMER: I meant the  
17 summary sheet you just showed us.

18 MR. MARSCHKE: The summary sheet  
19 that I just showed --

20 MEMBER ZIEMER: Didn't you update  
21 that while we were in the meeting?

22 CHAIR MUNN: Yes.

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1                   MR. MARSCHKE:    The summary sheet  
2                   that I just showed -- well, I've lost it now,  
3                   but that summary sheet -- that was the end of  
4                   August.    That was a summary sheet that I  
5                   generated yesterday, and that's the database  
6                   as it stands right now.  And it basically is  
7                   the same as it was in, at the start of August.

8                   If you look at this graph here,  
9                   you can see that this line, the November line  
10                  that is shown here, is virtually identical to  
11                  the August line, whereas the October line is  
12                  different.  And this, going from here to here  
13                  is the update that was lost.

14                  MS. ADAMS:    This is Nancy Adams.  
15                  Steve, the number that I have written on my --  
16                  the total findings of 538.

17                  MR. MARSCHKE:  Yes.

18                  MS. ADAMS:    And then open was 105,  
19                  which was different from July which was 118.

20                  MR. MARSCHKE:  Well, yes, we had  
21                  104, 105 in October, and now we are back to  
22                  115 open items, or --

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1 MS. ADAMS: And 38 in progress, 86  
2 in abeyance.

3 MEMBER ZIEMER: Well, I just  
4 wanted to cross check what we used in the  
5 letter. I thought it was the October data.

6 CHAIR MUNN: It was the October  
7 data, yes.

8 MR. MARSCHKE: At the start of the  
9 October meeting data, the start of the --

10 MEMBER ZIEMER: Okay. Remember,  
11 we left the blanks, the letterhead blank for  
12 the numbers, and we were going to fill them in  
13 after the meeting.

14 CHAIR MUNN: Yes. Originally we  
15 had intended having more numerical data there.  
16 We were going to give more numbers and agreed  
17 that that was overkill.

18 MEMBER ZIEMER: But we had a  
19 couple of percentages.

20 CHAIR MUNN: Yes. Yes, and the  
21 percentages were correct as of October, when  
22 we wrote the letter.

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1                   MEMBER ZIEMER:    So we are probably  
2                   okay on that.

3                   CHAIR MUNN:    I believe we are.

4                   MEMBER ZIEMER:    Percentage won't  
5                   make much difference.

6                   CHAIR MUNN:    No, and it's such a  
7                   small -- any change would be so small that it  
8                   wouldn't affect the percentage by any more  
9                   than one point at the very most, I'm sure.  
10                  They were all significant numbers.

11                  All right, well, we'll wait to see  
12                  if we can get back to where we need to be  
13                  sometime later today. In the meantime we'll  
14                  have to work with what we've got. The  
15                  tracking system status that comes up for me  
16                  shows currently the total findings of 538;  
17                  open, 115; in progress, 40; in abeyance, 79;  
18                  addressing findings, 15; transferred, 39; and  
19                  closed, 250. That's what comes up on the  
20                  current base.

21                  And that's it, only one or two  
22                  single items away from where we were. That's

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1 just about what we were using as our  
2 calculator. So yes, I think we are fine,  
3 Paul. I can't see this would be a problem.

4 Now next item, the PERs. Steve,  
5 do you have --

6 MR. MARSCHKE: A count? Well, I  
7 can just say -- I can introduce it a little  
8 bit. Yesterday the Subcommittee and the  
9 Board, actually, should have received an email  
10 from SC&A in which we transmitted two  
11 documents. One of them was the protocols to  
12 review NIOSH Program Evaluation Reports. And  
13 that is exactly what its title indicates.  
14 It's our draft protocol that we propose to  
15 utilize to review the PERs.

16 And it was written by Hans and  
17 Kathy. I have a version of it here on the  
18 screen that I can put up, and if Hans or  
19 Kathy, if you want to basically take over the  
20 discussion at this point, that would be good.

21 DR. BEHLING: Okay. This is Hans.

22 First of all let me apologize

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1 because I wasn't really aware until yesterday  
2 that this would be on the agenda for today.  
3 And I had it in the hands of people at our  
4 SC&A home office and was hurriedly trying to  
5 get it into your hands before this meeting.  
6 So I apologize, but I do hope that members  
7 have had a chance to review it and understand  
8 what's in it. But let me briefly go over what  
9 it really involves.

10 MEMBER GRIFFON: Hans, can I  
11 interrupt for a second? This is Mark Griffon.

12 DR. BEHLING: Yes.

13 MEMBER GRIFFON: Where did that  
14 email come from? I can't seem to find that.

15 MR. MARSCHKE: It went to your CDC  
16 email address.

17 MEMBER GRIFFON: Oh, that explains  
18 it, thank you. I'll look on there. Thank  
19 you.

20 DR. BEHLING: At least we know  
21 that some of us, some of the Board members,  
22 may have not had a chance to look at it. But

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1 just in brief, let me go over what I did here.

2           Among the things that was apparent  
3 at the October 23<sup>rd</sup> Board meeting was that we  
4 had really lost track of what happened to  
5 PERs. So the first section in the report  
6 tries to go back in time and explain what has  
7 happened to PERs. And one of the things I  
8 tried to do here was remind people of previous  
9 discussions we had in the form of attachments,  
10 some of which are obviously part of the  
11 report, and others are strictly referenced.

12           In past meetings we have had  
13 discussions about PERs, and to date we have  
14 done two PERs that try to track somewhat with  
15 the protocol that is being outlined or  
16 proposed here.

17           The first PER that was done in  
18 accord with this type -- with this basic  
19 procedure was the lymphoma PER, and following  
20 that one we had a discussion, and I think it  
21 was Mr. Katz's recommendation to at least  
22 eliminate one of the sub-tasks. Initially we

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1 had six sub-tasks, and as a result of the  
2 recommendation to eliminate the first sub-  
3 task, we are at this point with five sub-  
4 tasks.

5 MR. KATZ: Hans, I'm sorry, this  
6 is Ted, but let me just clarify, that is not a  
7 Mr. Katz recommendation. That was a decision  
8 of the contract evaluation panel. That's  
9 where that came about. It was during the  
10 review of the new SC&A contract that the panel  
11 recommended that that first step be eliminated  
12 as unnecessary.

13 DR. BEHLING: Okay, we will  
14 obviously make a correction here to the report  
15 to reflect your comments here.

16 But even beyond PER-0012 and 0020,  
17 which were done basically in a format that is  
18 being proposed here, there were previous other  
19 PERs, and, in fact, I was reminded yesterday,  
20 and I guess it was Steve who also recalled  
21 that in addition to the four PERs that were  
22 done early on, there were an additional two

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1 PERs, so we've done several PERs not by this  
2 protocol but basically under the protocol that  
3 was identified for review of procedures and  
4 OTIBs. So at this point we have really done a  
5 total of six PERs that were done initially  
6 under the protocols for procedures, and then  
7 two were done under a modified version of  
8 what's being proposed here. So that is the  
9 history behind it.

10 And one of the things that you  
11 will see if you go through this writeup is  
12 that the outstanding issue to date is the fact  
13 that we have yet to do any review of dose  
14 reconstructions that reflect these PERs, and  
15 that has been the topic of discussion on  
16 several occasions of previous work group  
17 meetings as well as full Board meetings. And  
18 I think this is a thing that needs to be  
19 looked at today.

20 Initially if you look at some of  
21 the attachments of previous meetings, we had  
22 proposed to do the, perhaps, three DRs that

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1 have been modified or reassessed under the  
2 existing PER, and then in behalf of this  
3 particular draft report, I look back and say,  
4 is this really reasonable? And I think this  
5 is the thing that needs discussion today, is  
6 that who is going to basically decide what the  
7 number of PERs should be and whose  
8 responsibility should that be.

9 For those who may have the report  
10 and have it available, the existing proposal  
11 is to essentially follow sub-tasks one through  
12 five as defined on page six of the report that  
13 you may have available at least  
14 electronically.

15 MS. BEHLING: Would you like Hans  
16 to go through those sub-tasks, since many of  
17 you may not have had an opportunity to read  
18 through this?

19 MEMBER ZIEMER: Yes, that would be  
20 useful.

21 CHAIR MUNN: It would be helpful.

22 MEMBER ZIEMER: Before you start,

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1 Hans, just to make sure everyone has the same  
2 report, the title of it under the SC&A  
3 transmittal is called Draft Transmittal, Draft  
4 SCA TR PR2009 0002 Rev 0 Restricted.

5 That's what it's under, what Judy  
6 sent us, so just for the benefit of those who  
7 are looking in there.

8 MS. BEHLING: To your CDC email.

9 MEMBER ZIEMER: Right.

10 DR. BEHLING: Okay, if you have  
11 that report, on page six is really the  
12 identification of the five sub-tasks that we  
13 are proposing to use in fulfillment of our PER  
14 review.

15 Sub-task one, and I'll read it  
16 verbatim so that -- for those who don't have  
17 it will get some understanding. Sub-task one  
18 states SC&A will assess NIOSH's  
19 evaluation/characterization of the issue and  
20 its potential impacts on DR. Our assessment  
21 intends to ensure that the issue was fully  
22 understood and characterized in the PER.

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1                   And that is basically just simply  
2 going through the steps that NIOSH will  
3 normally follow in establishing a PER. And  
4 that obviously includes certain discussions,  
5 writing up a PIP, and the writing of the PER  
6 that reflects what the technical issues are  
7 that prompted this whole issue.

8                   Sub-task two, assess NIOSH's  
9 specific methods for correction action in  
10 instances where the PER involves a technical  
11 issue. SC&A will review the scientific basis  
12 and/or sources of information, ensure the  
13 credibility of the corrective action and its  
14 consistency with current/consensus science.  
15 And that is nothing more than, again, going  
16 over all of the technical information that  
17 NIOSH has cited on behalf of the PER,  
18 verifying the sources, and making sure that  
19 the PER truly reflects that information, in  
20 addition to perhaps going outside those  
21 sources and seeing if the technical sources  
22 that are cited by NIOSH are consistent with

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1 the scientific literature at large.

2 Task three, evaluate the PER's  
3 stated approach by identifying the universe of  
4 potentially affected DRs and assess the  
5 criteria by which a subset of potentially  
6 affected DRs was selected for reevaluation.

7 The second step may have important  
8 implications in instances where the universe  
9 of DRs is too large, and for reasons of  
10 practicality NIOSH reevaluation is confined to  
11 a subset of DRs.

12 On behalf of sub-task four, SC&A  
13 will also evaluate -- actually, that should be  
14 sub-task three. On behalf of sub-task three,  
15 SC&A will also evaluate the timeliness for the  
16 completion of the PER. And that pretty much  
17 is nothing more than trying to assess the  
18 database under which these potential DRs may  
19 be selected for reassessment, and as I'm  
20 currently doing, I'm reevaluating -- or I'm  
21 evaluating -- PER 12, and here we are, we are  
22 essentially looking at, in this case, at all

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1 facilities in the DOE complex, including AWEs  
2 that may have, in the case of high-fired  
3 plutonium, be affected by this PR. And then  
4 understanding how that universe of claims can  
5 potentially be reduced to a more manageable  
6 system by applying certain screening tests.  
7 And, again, you will see later on when you  
8 read in my report how that is done, those two,  
9 not necessarily review all of the potential  
10 claims in this universe, but select those that  
11 will only be affected by the PER, and that is  
12 most likely driven by the Probability of  
13 Causation. If the corrective action on the  
14 part of a PER will not come even close to the  
15 50<sup>th</sup> percentile of Probability of Causation,  
16 we can certainly reduce the number that would  
17 require reassessment. And that's really the  
18 central theme of task three.

19 Under sub-task four, conduct  
20 audits of DRs affected by the PER under  
21 review. And that is really the step that  
22 needs a substantial amount of discussion by

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1 the Work Group. And we have up to this point  
2 come to the conclusion -- or at least I have  
3 come to the conclusion -- that the initial  
4 proposal to perhaps only limit our review of  
5 DRs to three may not be appropriate, and that  
6 was somewhat prompted by my current review of  
7 PER 12. And I explained why or what are the  
8 basic mechanisms by which we may have to  
9 increase the number. And that number may be  
10 variable and PER-specific. And as you will  
11 read in this particular protocol here, in the  
12 case of PER 12 there are any number of changes  
13 to the reassessment of dose reconstruction  
14 that may require a certain minimum number of  
15 DRs to be reviewed, and that is driven by the  
16 -- and in the case of Super S plutonium, that  
17 is driven by not only the facility that may be  
18 affected but the type of tissue or the organ,  
19 the target organ in question, and the  
20 methodology that was used to originally  
21 reconstruct doses, that is the type of  
22 bioassay that was used. In the case of

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1 plutonium Super S the corrective action as  
2 defined under OTIB-0049 is based largely on  
3 the bioassays that were used to reconstruct  
4 the original dose.

5           And so if you go through the  
6 original report, and I won't go through the  
7 details here, you will realize, on behalf of  
8 PER 12, the potential number of variables that  
9 affect dose reconstruction are driven by the  
10 type of organ and the method by which the  
11 original dose reconstruction was determined.

12           And my feeling is that to really  
13 assess at least each and every one of the  
14 permutations by which a dose may be reassessed  
15 under PER 12, you may have to assess as many  
16 as 12 DRs as a minimum. And that really is  
17 basically what I think are the issues that  
18 need to be discussed here, and the real  
19 question is who should make the decision in  
20 terms of defining which DRs need to be  
21 assessed from the universe of DRs that are  
22 potentially available for us to review.

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1                   CHAIR MUNN:    Hans, it would seem  
2                   to me that PER 12 and the high-fired plutonium  
3                   issues are probably among the more complicated  
4                   of the PERs that we have before us.  Is that  
5                   not correct?

6                   DR. BEHLING:    Yes, it is.  As I  
7                   said, Kathy had put out a table, I think it's  
8                   Table 1, that sort of looks at the complexity  
9                   by which a PER will be used in terms of  
10                  redefining dose reassessment.  And this one  
11                  turns out to be, perhaps, a little more  
12                  complex.  For those who are familiar with  
13                  OTIB-0049, there are obviously a host of  
14                  issues by which a dose reassessment has to  
15                  comply with the OTIB-0049.  And I think you  
16                  are correct, Wanda, that not all of these PERs  
17                  are equally complex.  And perhaps the number  
18                  of DRs in behalf of those PERs will vary  
19                  considerably from perhaps as few as two, three  
20                  to perhaps quite a few, and as I said, I  
21                  haven't gone through all of them obviously,  
22                  but in the case of PER 12 it appears that we

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1 would probably want to look at maybe perhaps  
2 12.

3           And if you read through the report  
4 I have basically stated that we would like to  
5 do the following: review the various documents  
6 under sub-task one through three and then  
7 prior to identifying and reassessing those  
8 reconstructions, is to present our findings to  
9 the Board, and make a certain -- make certain  
10 recommendations that, as I've just explained  
11 in the case of PER 12, we would go through it  
12 and say, in order to assess all of the  
13 different protocols that may be applied, and  
14 they do significantly vary based on the target  
15 organ that is assessed and also based on the  
16 methodology that was initially used on the  
17 original DR, we would then for instance  
18 propose to the Working Group what we would  
19 consider maybe a minimum or an appropriate  
20 number of DRs.       And of course that would  
21 clearly involve a dialogue with NIOSH because  
22 as I also point out, there may not be any

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1 claims that necessarily reflect each of the  
2 protocols that are stipulated in OTIB-0049.  
3 So we would have to obviously assist -- get  
4 assistance from NIOSH to say, okay, from the  
5 universe of DRs, they screen certain DRs down  
6 to those that will be affected by PER 12, and  
7 then make a selection based on certain  
8 features that will at least identify as many  
9 of the potential 12 permutations as possible,  
10 not necessarily meaning that all permutations  
11 that I have identified are necessarily part of  
12 the pool of, in this case, 1,720 claims that  
13 may be required to be reconstructed or  
14 reassessed for dose.

15 And I would assume that our  
16 recommendations would then go to the Working  
17 Group who then in turn would, like they  
18 normally do for our assessment of dose  
19 reconstruction, make a selection as they see  
20 appropriate.

21 CHAIR MUNN: My apologies. Hans,  
22 I now see for the first time scrolling down

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1 through that entire document that you have  
2 already done a great deal of evaluation with  
3 respect to the complexity and scope of each of  
4 these PERs. That should be very helpful to  
5 us, once we've absorbed it. I don't know if  
6 anyone else has had an opportunity to really  
7 absorb this or not. Ted?

8 MR. KATZ: That is the material  
9 that was presented to the Board at the last  
10 Board meeting. You've actually received and  
11 may have reviewed that at the last Board  
12 meeting, full Board meeting.

13 MEMBER ZIEMER: Which material are  
14 you referring to?

15 MR. KATZ: That's the SC&A sort of  
16 analysis to identify some potential high  
17 priority PERs for consideration.

18 CHAIR MUNN: And very frankly I  
19 scanned it and did not really and truly absorb  
20 it, and without this briefing this morning  
21 would not have realized that I have seen it  
22 before.

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1                   What's the feeling -- yes, Paul.

2                   MEMBER ZIEMER:   Well, if I might  
3                   make a couple of comments.   And I appreciate  
4                   the document that has been provided and the  
5                   work that Hans and Kathy have done on this to  
6                   kind of outline in more detail the approach.

7                   I have just a couple of questions,  
8                   Hans.   Number one, on the various sub-tasks,  
9                   particularly on the first -- well, the fifth  
10                  one is simply to write the report, so that is  
11                  a no brainer, I guess.

12                  But on the first two you talked  
13                  about assessing and the third one is  
14                  evaluating.   And what I'm wondering is how you  
15                  actually do the assessment.   I'm not asking  
16                  for an answer now per se, but it is certainly,  
17                  we want to assess it, but there's got to be  
18                  some sort of assessment criteria that are used  
19                  to characterize things to ensure the issue is  
20                  fully understood.

21                  Well, I don't know what that means  
22                  exactly.   But you must have in mind some

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1 assessment tools that would indicate whether  
2 or not you believe that NIOSH got their arms  
3 around the issue.

4 Also I think I understand the  
5 assessment of the methods outlined in the  
6 second sub-task. You're just going to look at  
7 the technical materials that they used and see  
8 how representative they are of the scientific  
9 literature, I guess.

10 But it seems to me it would be  
11 helpful if we actually had you try this, and  
12 you sort of have already on some other ones,  
13 but here you are formalizing it, to try this  
14 with a particular PER, maybe not one that is  
15 overly complex, and not one that is overly  
16 simple, and show us what these assessments  
17 look like. Is there some way that you are  
18 going to score things, quantify things?

19 DR. BEHLING: No, I think --

20 MEMBER ZIEMER: How subjective and  
21 how objective can it be? That's what I'm  
22 getting at.

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1 DR. BEHLING: Well, to quantify  
2 something would be very difficult.

3 MEMBER ZIEMER: No, but I'm trying  
4 to get a feel between subjective and objective  
5 assessments because I think it's difficult.

6 DR. BEHLING: It is very  
7 difficult, and I think it's very DR specific.

8 MEMBER ZIEMER: That's why I said  
9 I'd like to see what an assessment looks like.

10 I think as you get into it you will have some  
11 criteria against which you make the decision.

12 For example in sub-task two, you would, for  
13 example, say, okay, we have reviewed these  
14 technical documents and they are or they  
15 aren't representative of the consensus of the  
16 scientific literature, or some particular  
17 document has been ignored. And I think you  
18 can get at it pretty easily in sub-task two.

19 Sub-task one, it seems to me it's  
20 difficult, and I'm not sure on -- well, I  
21 guess on sub-task three -- I just don't have a  
22 feel for how you would approach it.

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1 DR. BEHLING: Well, as I said, I  
2 have at least tentatively scanned the  
3 different PERs, and I realize the approach  
4 will probably vary and be tailored to the  
5 specific PER. But in the case of -- we have  
6 already done two cases, two PERs, one which  
7 was reviewed by the Work Group, namely, that's  
8 PER 9, the lymphoma issue. And then there is  
9 PER-0020, which is the Blockson. And in the  
10 case of, for instance, lymphoma, there was  
11 obviously some lengthy discussion about early  
12 diagnostic tools and so forth, and I think we  
13 have a transcript of the discussion that was  
14 held in behalf of my writeup for the lymphoma  
15 PER.

16 In the case of -- and that was a  
17 very medically-oriented kind of thing where I  
18 went back into the medical literature, my own  
19 pathology textbook, and we had a fairly lively  
20 discussion with NIOSH over that issue. And it  
21 was a very different and unique situation.

22 In the case of Blockson, it was

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1 basically a revision to the TBD, and many of  
2 the changes that occurred, that was the  
3 genesis for the PER. So it's going to be very  
4 difficult for me to tell you precisely how  
5 it's done, but each one will be different. In  
6 the case of the current PER, Super S  
7 plutonium, again, will be an assessment that  
8 looks at the data that were used to come to  
9 this conclusion, namely, what was prompted  
10 obviously was the discussion and the SEC  
11 petition regarding Rocky Flats, that there  
12 were plutonium fires. These were very highly  
13 oxidized, plutonium oxide, highly insoluble  
14 materials. And the realization was that post-  
15 mortem studies and others involving exposed  
16 individuals showed retentions in their lungs  
17 that far exceed type S as described by the  
18 ICRP test group, lung model, and so on and so  
19 on.

20 So I don't know if there is a  
21 generic protocol that I can point to that will  
22 identify the method, and I haven't gotten to

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1 the Super S plutonium. Obviously, Dr.  
2 Lipsztein, who is on the line, was very  
3 central to that whole discussion. But we will  
4 probably go back and assess whether or not  
5 there are any other data that could  
6 potentially trump the information, which is  
7 not likely, but it appears from what I have  
8 done at this point is that NIOSH took a very  
9 conservative approach by looking at the two  
10 most restrictive cases involving data, human  
11 data, that are available, and coming up to the  
12 various recommendations for this PER.

13 And as I said, I don't know if  
14 there is a generic protocol for me to point to  
15 and say we will follow this protocol. I don't  
16 want to box myself or paint myself in a corner  
17 by writing a protocol that may not apply at  
18 all. I believe each of these PERs will be  
19 very very different in terms of assessing the  
20 technical basis for it and simply following  
21 the methodology that NIOSH has supplied in  
22 coming to some understanding of whether or not

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1 that was technically sound, claimant  
2 favorable, et cetera, et cetera.

3 MEMBER GRIFFON: But, Hans, this  
4 is Mark Griffon. If I understood you right  
5 the PER-0009 and PER-0020 reports that you did  
6 were done based on this protocol, so  
7 theoretically your reports should include a  
8 description of sub-task one through four and  
9 what you did.

10 DR. BEHLING: Yes.

11 MEMBER GRIFFON: So, Paul, maybe  
12 that would be something to start with in terms  
13 of getting an example of how it looks.

14 MEMBER ZIEMER: Yes, that's a good  
15 point. And, Hans, in those reports do you  
16 actually identify these as issues? Can we put  
17 them one to one against these sub-tasks?

18 DR. BEHLING: Yes, absolutely.

19 MEMBER ZIEMER: Okay.

20 DR. BEHLING: The report is  
21 essentially broken up by sub-tasks. And as I  
22 said, the difference between PER-0009 was that

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1 there was an additional sub-task that has at  
2 this point been taken off as Ted Katz had  
3 pointed out, it's no longer part of the  
4 protocol that we intend to use and was not  
5 part of the protocol that was applied in  
6 behalf of PER-0020.

7 MEMBER GRIFFON: Can I ask another  
8 question on the document you sent around?

9 DR. BEHLING: Yes.

10 MEMBER GRIFFON: Under sub-task  
11 four, I think that probably is something we  
12 might want to discuss a little bit. I  
13 certainly agree with the criteria you listed.

14 I guess it goes into section four, actually.

15 But I was noting the three bullets in the  
16 beginning of Section 4, page 7 in the  
17 document. It seems to me, and PER-0012 or  
18 OTIB-0049, I guess, would be a starting point  
19 in my thought process, it seems to me that at  
20 least overlapping criteria would be the site  
21 where -- that was affected by the PER.  
22 Because I think in the case of high-fired

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1 plutonium, we certainly -- it affects more  
2 than one site. So that is not listed in your  
3 criteria, although it sort of is underlined  
4 there I guess.

5           And then the other criteria --  
6 and, again, this may be sort of underlining  
7 also -- is the Probability of Causation of the  
8 cases, just as criteria to consider when we  
9 select these cases for review. I don't know  
10 if others have thoughts on that, but I think  
11 this is an important part, where the  
12 Subcommittee or the Board sort of is brought  
13 into this, into the fold here.

14           DR. BEHLING: Again, Mark, this is  
15 so different among the PERs. In the case of  
16 PER-0012, it was here that for instance the  
17 recommendation to use a factor of four for the  
18 highly insoluble would allow a very quick and  
19 dirty approach at least for the urinalysis  
20 portion if the original dose reconstruction  
21 was performed by way of urinalysis, then the  
22 factor four, which is one that says, okay, if

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1 we have to apply that, then we can clearly  
2 identify the threshold level of PoC, which  
3 turned out to be under OTIB-0049 16.57, or  
4 something like that, as a threshold. And that  
5 is clearly understood when you realize the  
6 corrective factor for Super S plutonium  
7 involves four. So that however is not a  
8 constant; it's a very critical variable, and  
9 it always comes into play when you try to  
10 screen out certain claims that are part of the  
11 universe initially, but then by way of a  
12 screening factor you try to reduce it in order  
13 to obviously maximize the effort in affecting  
14 only those claims that will truly have the  
15 potential for exceeding the 50<sup>th</sup> percentile  
16 PoC value. But that will, again, change from  
17 one PER to the next.

18 MEMBER GRIFFON: I agree. I just  
19 thought that in that section you were listing  
20 criteria that may be considered in the  
21 selection of cases. And certainly the site is  
22 not going to affect many of the PERs because

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1 they are site-specific.

2 DR. BEHLING: Yes, and in this  
3 case I think I did mention the fact that a  
4 site, in the case of even the PER-0012, we  
5 realize there is one additional correction  
6 factor that may be somewhat site-specific, and  
7 that is the particle size for Rocky Flats,  
8 we've assumed that in a fire, in an instance  
9 of high-fired plutonium that is the result of  
10 an actual fire, that the particle size may go  
11 from the default value of five microns to 0.3  
12 microns, and that may be highly site-specific.

13 Not to mention the fact that in attachment A  
14 of PER-0012 we do list the various sites that  
15 will be potentially affected by the Super S  
16 plutonium. I didn't necessarily -- I tried to  
17 be more generic in my writeup.

18 MEMBER GRIFFON: I agree with  
19 that. I think the other complication that I  
20 mentioned at the Board meeting that I thought  
21 we might want to discuss more here is that  
22 when we select these cases for review, you

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1 know, the cases that fall under a certain PER,  
2 and Stu, we've certainly discussed this either  
3 at this Subcommittee or the other  
4 Subcommittee, I'm just not sure we will go  
5 about the reviews because oftentimes when  
6 NIOSH modifies a case or goes back and makes  
7 corrections to a case, they will not only do  
8 corrective actions based on PERs but may  
9 actually end up reworking the entire case  
10 based on more current procedures that are out  
11 there. Is that correct, Stu, if you are in  
12 the room?

13 MR. HINNEFELD: Yes, that is  
14 correct.

15 MEMBER GRIFFON: So I don't know  
16 how that complicated things when we go back to  
17 audit, but you know, to look at this, but it  
18 may complicate things is my impression.

19 DR. BEHLING: Yes, and you've  
20 mentioned one, and in fact if you look at  
21 OTIB-0049 they make a strong statement about  
22 identifying not only the universe but then

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1 whittling down, and there will be a  
2 subcategory of claims that will not only be  
3 affected by PER-0012 but by others including  
4 for instance in the case of a lymphoma that  
5 may involve lymph nodes, thoracic lymph nodes,  
6 they will be affected not only by 12, but by  
7 PER-0009 and by other factors. And also there  
8 is the issue of was the original dose  
9 reconstruction one involving a best estimate  
10 or a maximized? If, for instance, the  
11 original dose reconstruction was a maximized  
12 dose, well, there will be certainly revisions  
13 to the dose reconstruction that reflect PER-  
14 0009, but NIOSH may elect to go back and say,  
15 well, we gave you a lot of gifts here as a  
16 maximized dose reconstruction that we will  
17 withdraw now, and so the whole idea of the  
18 dose reconstruction audit involving the PER is  
19 very complex.

20 MS. BEHLING: That's what we tried  
21 to discuss under sub-task four, if you read  
22 through that, we identified that.

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1                   MEMBER GRIFFON:       And I guess  
2                   that's my point is it could complicate the  
3                   selection process for us because if you just  
4                   look at sort of descriptive statistics and  
5                   information like that, you may not be getting  
6                   the full picture of what you're, you know --  
7                   because other changes could have been made,  
8                   they could have -- well, I guess we just  
9                   stated it.

10                  DR. BEHLING:     And, Mark, not even  
11                  the least of which may be the fact that a dose  
12                  reconstruction may actually have been audited  
13                  under task three, and there may be outstanding  
14                  issues that have yet to be resolved by your  
15                  Work Group.     And so -- I mean, under task  
16                  four, so we are dealing with a very complex  
17                  issue here, and that is why I have elected to  
18                  basically make this into a two-step process,  
19                  which is we will go through sub-task one  
20                  through three, and then make a certain  
21                  recommendation to the Work Group, and then  
22                  allow the Work Group to discuss it, and then

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1 select the cases that you may want to have as  
2 part of the audit.

3 CHAIR MUNN: Ted.

4 MR. KATZ: I'm sorry, I just  
5 wonder, because this discussion came up when  
6 we were reviewing the contract as well, the  
7 contract evaluation panel, but I don't know if  
8 this simplifies things, Mark, but I mean the  
9 point of these PER reviews is to review the  
10 adequacy, appropriateness, scientific quality  
11 of the PER action, and not really to evaluate  
12 other factors with respect to the redo of a  
13 dose reconstruction, and if it were just  
14 another dose reconstruction review. And I  
15 wonder if that doesn't simplify things in a  
16 sense. Because really you are only looking --  
17 the point of these reviews is to determine how  
18 well was the PER constructed and then  
19 implemented, not any other sort of  
20 coincidental consequences for a particular  
21 dose reconstruction that you would address in  
22 a normal dose reconstruction review.

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1                   MEMBER GRIFFON: Yes, I think it's  
2 only complicated in the selection. I'm just  
3 trying to think this through, Ted, but I mean  
4 in terms of the selection you may see  
5 something that for instance using my PoC  
6 example you may look through all the potential  
7 cases and say, oh, let's look at this one  
8 because it's 48 percent or 47 percent, and  
9 when they read -- when they rerun it or reran  
10 it, it may have gone over 50 percent, but in  
11 fact it was a maximizing case, so then all  
12 those generosities as Hans just alluded to are  
13 taken out when they had to redo it, when they  
14 redid it with the PER corrective action. So  
15 you may not be selecting -- I think it affects  
16 things more in the selection process than in  
17 the actual audit process.

18                   MEMBER ZIEMER: That is correct  
19 because in the audit process obviously they  
20 will have to consider those other factors.  
21 And you won't a priori know, I don't think, in  
22 the selection process how those will impact.

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1 But it seems to me that one way to handle this  
2 is to include in the document the fact that  
3 SC&A would work, I think, with the Dose  
4 Reconstruction Subcommittee in the selection.

5 I don't believe this Subcommittee would get  
6 involved in the selection. I mean if we  
7 approved this as an approach, we wouldn't be  
8 involved, would we, in selecting cases?

9 CHAIR MUNN: In selecting the  
10 cases, I wouldn't think so.

11 MEMBER ZIEMER: And so in making  
12 the decision on criteria for case selection, I  
13 don't think that is unilaterally SC&A's  
14 decision. Mark, wouldn't your Subcommittee be  
15 involved if it's a particular PER situation,  
16 or group of cases? Wouldn't you be involved  
17 in that decision, under number four?

18 MEMBER GRIFFON: Yes, I would,  
19 either this Subcommittee or the DR  
20 Subcommittee.

21 MEMBER ZIEMER: Well, I would  
22 think it would be the DR Subcommittee. All

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1 you are really saying here is that this is a  
2 procedure that should be followed to audit  
3 some DRs that are affected, but the selection  
4 of those, it seems to me, would be done in  
5 collaboration with the Dose Reconstruction  
6 Subcommittees, though SC&A would need to --  
7 well, they would need to be tasked or sub-  
8 tasked by your Subcommittee. So I don't -- I  
9 think these are criteria that they have  
10 identified, and it doesn't seem to me that  
11 your Subcommittee is necessarily restricted to  
12 consider only these things, but other related  
13 issues as you see it, it would seem to me.

14 MEMBER GRIFFON: Yes, and I think  
15 they do state, SC&A's document says that the  
16 selection will be up to the Board.

17 MEMBER ZIEMER: Right.

18 MEMBER GRIFFON: And I agree.

19 MEMBER ZIEMER: And it basically  
20 says -- I don't think this is stated that  
21 these are restricting considerations, but  
22 let's see how it says -- it includes the

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1 following, it doesn't say it's only the  
2 following. So there can be other factors as  
3 you described, it seems to me.

4 MEMBER GRIFFON: Okay, I agree.

5 MEMBER ZIEMER: Or maybe they  
6 would say include but are not restricted to  
7 the following.

8 Hans, I think you said there were  
9 a couple of other minor changes you were going  
10 to make anyway, right?

11 DR. BEHLING: Right, but, Dr.  
12 Ziemer, let me just point out in my summary  
13 conclusions I clearly state that SC&A will not  
14 be the people who make any primary decisions.  
15 We will only make recommendations.

16 MEMBER ZIEMER: Right, that's why  
17 I'm saying I think the listing of the three is  
18 not intended to be restricted at all; it's  
19 just examples of issues that may affect us.

20 MS. BEHLING: And it's to guide  
21 you as to how many cases you might want to  
22 consider soliciting.

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1 DR. BEHLING: And the diversity of  
2 the different cases. Like I said, it would  
3 be, in the case of PER-12, we would probably  
4 want to select -- under PER-12 we select -- or  
5 there are four different classes of target  
6 organs or tissues, the lungs, the thoracic  
7 lymph nodes, all other organs, et cetera. So  
8 we would probably say or recommend to the  
9 Subcommittee or Work Group, whoever, whether  
10 it's Wanda's group or Mark Griffon's group, a  
11 pool of criteria by which to select those.  
12 And then of course the Work Group or the  
13 Subcommittee would then make a final decision  
14 as to which ones they would like us to audit.

15 CHAIR MUNN: And, ultimately, no  
16 matter how prescriptive we attempt to be in  
17 establishing criteria, the bottom line is it's  
18 going to involve some technical judgments. We  
19 will have to have an agreement on items that  
20 are not as proscribed as we perhaps would like  
21 them to be, often.

22 DR. BEHLING: And as I said, it

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1 would be really our input, SC&A's input, in  
2 behalf of sub-tasks one through three, that  
3 would provide the committee or the Work Group  
4 with the basic information on which they would  
5 then make a decision as to how many and which  
6 type of DRs we should then be looking at for a  
7 reevaluation of dose.

8 CHAIR MUNN: That recommendation  
9 would be welcome. It's very difficult for  
10 people who do not work with the cases and each  
11 of the procedures on a daily basis to make the  
12 kind of evaluations we're asking you to make.

13 DR. BEHLING: And in this case, I  
14 think, we have the blessing of Mark Griffon  
15 who is obviously a member of both committees,  
16 chairperson of the Dose Reconstruction  
17 committee. So certainly we have the ability  
18 to communicate well with the people who are  
19 well-versed in the issues of dose  
20 reconstruction and the audits of dose  
21 reconstructions.

22 CHAIR MUNN: So how do you

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1 perceive our next step in this process as  
2 going?

3 DR. BEHLING: Well, I guess -- I  
4 hope that the Work Group members that are in  
5 attendance today will look at the writeup,  
6 and, as I said, I apologize that you didn't  
7 have a chance to review it and then perhaps  
8 make certain recommendations, whether they be  
9 by way of email or otherwise, so wait for  
10 another Work Group meeting to commence.

11 At this point I'm going to go  
12 ahead and conduct my audit of PER-0012  
13 without, obviously, committing myself to any  
14 particular format. There is a lot of  
15 background work that needs to be done, but I  
16 will continue, and then I will await your  
17 final decision as to whether or not the basic  
18 methodology as provided here in our draft  
19 report will stand, and I still strongly feel  
20 that we should follow basically a two-step  
21 protocol that will allow SC&A to assess the  
22 PER under sub-task one through three, provide

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1 a draft report on behalf of those findings,  
2 and then recommend to the Work Group or the  
3 committee a list of DRs, the -- or qualify the  
4 DRs based on an understanding of what the PER  
5 intends to do, and then allow the committee to  
6 select those cases which we will then review,  
7 and then we will write a final report.

8 MR. MARSCHKE: Could I just ask  
9 how this is going to work? I mean to me,  
10 listening to all this, this is kind of the  
11 first time I've listened to all this, but  
12 listening to all this it seems like there's  
13 going to be a breakdown between Subcommittees,  
14 and task one, two, and three is going to be  
15 done kind of under this Subcommittee, the  
16 Procedures Subcommittee, and then we are going  
17 to get a report -- SC&A is going to generate a  
18 report, and then it is going to go over the  
19 fence to the Dose Reconstruction Subcommittee  
20 to really do task four, sub-task four, under  
21 really the DR Subcommittee.

22 I'm a little wondering about the

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1 logistics, or maybe it's too early to worry  
2 about the logistics of how this is going to be  
3 --

4 DR. BEHLING: Well, we anticipated  
5 that as an issue, and in our writeup we  
6 referred to it as the Subcommittee versus the  
7 Work Group because it tends to be basically an  
8 issue that I think needs further discussion,  
9 who will ultimately then undertake the role of  
10 reviewing our audits of selected DRs. Would  
11 it be Mark Griffon's group or Wanda's group?

12 CHAIR MUNN: Stu.

13 MR. HINNEFELD: Well, I have an  
14 unrelated question, if you want to talk about  
15 that. I mean it's related to procedure, but  
16 not that specifically.

17 MR. KATZ: I have a related  
18 question which may complicate things a little  
19 bit, but depending on which PER it is, when  
20 you have a site-specific PER I would think you  
21 would want that, if there is a Working Group  
22 for that site, that that Working group would

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1 be the one to oversee the PER review, not  
2 really this. But that's a question, that's  
3 not an assertion. So if it's a PER for NTS,  
4 you would think the NTS Working group.

5 MS. BEHLING: I think from a  
6 conflict of interest standpoint we really need  
7 to move in that direction. And also I'm not  
8 sure -- why can't we treat the PER assignments  
9 similarly to how we treat receivers where  
10 there is a transferring mechanism from this  
11 Subcommittee to the appropriate Working Group,  
12 or even the DR Subcommittee. So that at least  
13 then we can track what happened.

14 CHAIR MUNN: I need to think about  
15 that.

16 Paul, you had a comment?

17 MEMBER ZIEMER: Yes, let's say  
18 that there is a particular PER of interest,  
19 let's say it's, I don't know, high-fired  
20 plutonium, it cuts across a number of sites in  
21 some cases, or you may have a site-specific  
22 one, what we would be approving initially is

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1 the approach, that's this. Once that is in  
2 place, the Board can assign -- the Board can  
3 assign -- well, I guess we would be tasked to  
4 pick out PERs to review.

5 CHAIR MUNN: I would think.

6 MEMBER ZIEMER: That's the  
7 question.

8 MR. KATZ: That's a big question  
9 that was raised at the -- I raised at the full  
10 Board meeting. It's the actual selection of  
11 the PERs that will be reviewed. I had argued  
12 at the last Board meeting that that should be  
13 done by the full Board because of conflict of  
14 interest trouble with putting it with a narrow  
15 Subcommittee.

16 CHAIR MUNN: But by the same token  
17 if the recommendation from SC&A comes with a  
18 similar recommendation from this body, it  
19 seems to me that would be helpful for the full  
20 Board to make that decision.

21 MEMBER ZIEMER: Well, at the front  
22 end we have to decide on what PERs to review.

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1       And so we have this list, and I think they  
2       are all in the document here, most of them, or  
3       all of them I guess are in the document, and  
4       we looked at the first several on the list  
5       last time.

6                   But I think what we were  
7       struggling with, and maybe counsel was as  
8       well, is what can we discuss and maybe do we  
9       know the answer to that, in full Board when we  
10      have the whole list, other than making  
11      motions? The fact that some -- let's say  
12      someone from Hanford makes the motion that we  
13      do an Oak Ridge PER. Well, in a sense they  
14      are doing that to the exclusion of the site  
15      that they are involved in. So can they really  
16      do that, see? Can everything be on the table  
17      at startup? I have a lot of problems with how  
18      we make the selection. Once the selection is  
19      made, then I think it's fairly  
20      straightforward. Then SC&A can start their  
21      tasks, reviewing the thing, and they have to  
22      work with the Dose Reconstruction Subcommittee

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1 to select doses, I guess, test and review, and  
2 task -- sub-task four.

3 But the front end of the whole  
4 thing, it seems to me, is --

5 MR. KATZ: I mean there are two --  
6 I mean before the selecting dose  
7 reconstruction cases, I mean it's the  
8 oversight of task one, two, three of the PER  
9 procedures, as Hans laid out, and I would  
10 think the Work Group, if it is a site-specific  
11 one, I would think, again, the Work Group that  
12 is responsible for that site might be the  
13 logical one to oversee steps one, two, and  
14 three that they laid out here.

15 MEMBER ZIEMER: Once the full  
16 Board has made that --

17 MR. KATZ: Once the Board has made  
18 that selection. But let me just go back. I  
19 mean, I don't think OGC wants to be committed  
20 at this point since there are still issues  
21 with HHS about this. I think I as a DFO don't  
22 mind that, I don't mind being strung up later

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1 if I am. But I think that the only thing that  
2 makes sense -- again, there are practical  
3 limitations on what we can do to deal with  
4 this conflict of interest problem because  
5 there is no way that I can imagine -- and I've  
6 given this some thought -- for breaking up the  
7 Board in ways to be able to deal with the  
8 question of selection piece by piece to avoid  
9 conflict, and I think the only thing that is  
10 practical, even though it's imperfect in the  
11 view of HHS with respect to tasking and  
12 conflict of interest, I think the only thing  
13 that is practical is for the list to come  
14 before the full Board, and those people --  
15 people's conflicts, they simply stay silent on  
16 their conflicts. They can make  
17 recommendations unrelated to their conflict.  
18 They can contribute to discussion unrelated to  
19 their conflict, you know, the conflicted site,  
20 but they stay silent on those, and obviously  
21 they don't vote on those.

22 And I just think that is the only

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1 workable way to do it.

2 MEMBER ZIEMER: So what you are  
3 talking about is that in full Board, suppose  
4 we select five PERs to review and say, okay,  
5 here's these five. Then we would take them  
6 one by one and say, okay, here's the Hanford  
7 one, the Hanford people say, how many vote to  
8 task this.

9 MR. KATZ: Right.

10 MEMBER ZIEMER: And here's an Oak  
11 Ridge one, the Oak Ridge people have to sit  
12 out. If we have one that is across the  
13 complex, then we will need some decision from  
14 counsel on how that would work, I guess, or  
15 maybe we have it. But it seemed to me there  
16 was some sort of feeling that if it's bigger  
17 than a certain amount it becomes more  
18 universal. If it's just like two sites, those  
19 people have to sit aside, if it's five or six  
20 or something, there's some point at which  
21 everybody -- am I understanding this  
22 correctly? Or maybe it's too early to say.

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1 MS. HOWELL: I mean, I definitely  
2 think that that was what I conveyed during the  
3 October Board meeting. But it hasn't been  
4 finalized because it's a question that has to  
5 go beyond our team. And certainly we  
6 recognized the importance of it, and we have  
7 been in conversations with not only the other  
8 HHS folks, but also Dr. Howard is well aware  
9 of the concern, and Ted's working with us. So  
10 I'm hopeful but not -- can't promise that  
11 maybe we will be able to address it on the  
12 December 8<sup>th</sup> call.

13 MEMBER ZIEMER: Let me ask you  
14 another question. Are we meeting again before  
15 the full Board meeting? Is this Subcommittee  
16 meeting? I would like to see this document in  
17 some form approved. I sort of feel like it's  
18 -- in spite of the questions I asked earlier -  
19 - I suspect it's about what we are going to  
20 end up with, with a few minor edits. But I'm  
21 wondering if we would be prepared, at a full  
22 Board meeting, to recommend that this be

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1 procedure, recognizing that it already in  
2 practice, number one, has been used. I think  
3 it pretty well reflects the original contract  
4 tasking for this activity. Although that  
5 didn't have official Board approval, I think,  
6 it was approved through the contracting  
7 process by those who were involved. And I  
8 think all we were trying to do is formalize  
9 that with the full Board in our last meeting,  
10 or that's what generated this.

11 MR. KATZ: So you are speaking  
12 about the December 8<sup>th</sup> meeting, conference  
13 call?

14 MEMBER ZIEMER: No, I'm talking  
15 about the February meeting. I think the  
16 conference call would be a little too early.  
17 I think we need to have a full discussion.

18 MR. KATZ: So we can certainly  
19 have this on the agenda for February.

20 MEMBER ZIEMER: I mean, I  
21 certainly am willing to -- to recommend that  
22 we approve this or whatever the document with

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1 minor edits might be.

2 MR. KATZ: And then maybe, given  
3 that we have until February, maybe we can work  
4 hard at least to try to get clarity about this  
5 issue of when you have a PER that cuts across  
6 a few sites, how do we deal with that numbers  
7 problem? Because we are going to have to have  
8 a practical solution to that.

9 MEMBER ZIEMER: And even if we  
10 don't know the answer to that, we could still  
11 have a general approved procedure.

12 MR. KATZ: Right. Right, but it  
13 would be nice to settle it all at the February  
14 Board meeting, and we will work towards that.

15 MS. BEHLING: This is Kathy  
16 Behling. I would also recommend that maybe  
17 the Subcommittee go back and review PER-0009  
18 that we've already done which is one of the --  
19 which is a PER that crosses a number of  
20 facilities, and also PER-0020 which is site-  
21 specific. And, again, as Hans said, you will  
22 see in those PERs that are already completed

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1 how we've followed the sub-tasks that are laid  
2 out here.

3           The other thing you might want to  
4 think about for future meetings -- I don't  
5 know if it has to go to the full Board meeting  
6 -- but as Hans mentioned, both PER-0009 and  
7 0020 -- in fact PER-0020 I don't believe has  
8 been reviewed by this Subcommittee, and it  
9 would be a good example of where do we want to  
10 review that, that's Blockson PER, and we  
11 haven't selected any -- there hasn't been any  
12 decision on the number of cases or the cases  
13 that should be selected for PER-0009 which is  
14 the lymphoma issue. So those are also things  
15 you might want to consider for future  
16 meetings.

17           MEMBER GRIFFON: Can I make one  
18 comment?

19           CHAIR MUNN: Yes, please.

20           MEMBER GRIFFON: Paul -- I agree  
21 with Paul that I think we should probably --  
22 this procedure looks very reasonable and looks

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1 appropriate to follow, and we should probably  
2 at some point vote to approve the use of this  
3 or however that process has to work.

4 As far as the handling of the  
5 cases, I'm not sure, I can sort of follow the  
6 logic of the site-specific questions, but then  
7 I also have to reflect back on the fact that  
8 the DR Subcommittee has been looking at cases  
9 from all sites throughout its history, so if  
10 this is a -- really this is a dose  
11 reconstruction question, probably, and might  
12 be a lot easier if we just keep it between two  
13 Subcommittees, instead of farming it out to  
14 every work group and -- I'm just envisioning  
15 that process being very difficult to track,  
16 and really the work groups have been looking  
17 more at site profile and SEC issues, rather  
18 than does reconstruction issues.

19 Although they certainly overlap, I  
20 understand, but I guess if I had -- I guess  
21 it's my thought on that, that it would be a  
22 lot easier to manage if it were between the

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1 two Subcommittees.

2           And then the final point is really  
3 a question. I was wondering if Hans or Kathy  
4 can elaborate on, in attachment one of this  
5 procedure, the -- I understand, in your level  
6 of complexity I understand how you ranked, or  
7 I can certainly envision how you ranked the  
8 science factor as medium, high, or low, but  
9 can you explain -- just explain a little bit  
10 on how you arrived at these selection  
11 criteria, high, medium, and low for the  
12 various PERs that you looked through in the  
13 table.

14           MS. BEHLING:       This is Kathy  
15 Behling. Yes, in some cases, in some PERs,  
16 the selection criteria for NIOSH can be  
17 something very simple. I think John Mauro  
18 might have mentioned this at the last Board  
19 meeting. But something as simple as saying,  
20 if it's less than 50 percent we are going to  
21 look at everyone that is less than 50 percent,  
22 and there is not any additional criteria or

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1 protocols that they use to select which cases  
2 are actually going to reevaluate, but in the  
3 case of the PER-0012, as Hans was mentioning,  
4 they are going to go back to cases, and they  
5 are going to say, we are going to look at this  
6 if -- depending on what the bioassay was and  
7 what the PoC was, and there is a calculation  
8 that they do for determining what the minimum  
9 PoC was, and so it becomes a much more complex  
10 process for determining who they are going to  
11 actually select in order to reevaluate their  
12 dose reconstruction. Does that make sense?

13 MEMBER GRIFFON: Yes, thank you,  
14 Kathy, this is Mark Griffon again. That makes  
15 sense. And let me just for clarity purposes,  
16 in that last column, the selection criteria,  
17 high, medium, and low, that is based on  
18 NIOSH's stated selection criteria, or is this  
19 sort of SC&A's independent opinion on how  
20 difficult it will be to select?

21 MS. BEHLING: No, I think that on  
22 reading through the PER and looking at NIOSH's

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1 selection criteria.

2 MEMBER GRIFFON: Okay, so you may  
3 -- and in your steps one, two, three, I guess  
4 part of that would be to assess if the  
5 criteria is getting at what they need to?

6 MS. BEHLING: That is correct,  
7 absolutely.

8 MEMBER GRIFFON: All right, so  
9 this is really an unstated criteria.

10 MS. BEHLING: Yes.

11 MEMBER ZIEMER: These are SC&A's  
12 evaluations, though, right? When you say  
13 medium, Kathy?

14 MS. BEHLING: Yes, those are my  
15 evaluations. But those evaluations were based  
16 on NIOSH's selection criteria as stated in  
17 their PER.

18 MEMBER ZIEMER: Right, but they  
19 are somewhat subjective.

20 DR. BEHLING: Yes.

21 MEMBER ZIEMER: When does it go  
22 from medium to high, in other words.

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1 CHAIR MUNN: Well, that is always  
2 going to be there. Stu?

3 MR. HINNEFELD: I apologize, the -  
4 - this is Stu Hinnefeld. I'm interested in  
5 sub-task one and two, exactly what does that  
6 mean? And to keep in a specific example,  
7 let's talk about PER-0012, high-fired  
8 plutonium. Presumably sub-task one is that we  
9 correctly identify the issue, and I guess the  
10 issue, loosely speaking, is that there is this  
11 high-fired plutonium out there at a number of  
12 sites that the behavior is not described  
13 appropriately by the existing ICRP models.  
14 That's the issue. So the corrective action we  
15 did here was we wrote an OTIB, which was, I  
16 think, 0049, and OTIB-0049, then, was our  
17 method to address that issue and apply that to  
18 the -- to the populace, to the subject  
19 population. So in sub-task two then, SC&A  
20 proposed review of the scientific basis -- or  
21 essentially, is that -- it sounds like it's  
22 the review, assess our methods for the

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1 corrective action, in other words, assess  
2 OTIB-0049.

3 DR. BEHLING: Yes, and, again,  
4 there is some redundancy here, and --

5 MR. HINNEFELD: Well, it sounds  
6 exactly redundant to me because there is an  
7 OTIB-0049 review already.

8 DR. BEHLING: Exactly, and I think  
9 we have that review. And, again, that was Dr.  
10 Lipsztein's work that we used in OTIB-0049,  
11 and it's basically trying to pull -- and I  
12 have to say much of this has been done. And  
13 so what we are oftentimes tasked to do is to  
14 pull all the little strings together into a  
15 single report because we realize not everyone  
16 has been involved in, for instance, the review  
17 of OTIB-0049, and so part of this review of  
18 the PER goes beyond just PER-0012 because that  
19 is a relatively short document and it only  
20 summarizes and only references critical  
21 documents. The most critical document for the  
22 evaluation of PER-0012 is really OTIB-0049.

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1 MR. HINNEFELD: So then if this --  
2 well, it sounded to me like it was essentially  
3 another review of OTIB-0049 is what it sounded  
4 like.

5 DR. BEHLING: Yes, it is. Yes it  
6 is.

7 MR. HINNEFELD: And that's what  
8 you want to do?

9 DR. BEHLING: Well, I will review  
10 it, and, again, I will heavily rely on Dr.  
11 Lipsztein and perhaps sort of audit the  
12 auditor.

13 MR. HINNEFELD: So is that what  
14 you want to do, do another review of a  
15 document we've already reviewed? Now to me  
16 this PER -- and in fact I believe our findings  
17 on OTIB-0049, which may still need to be  
18 resolved, which may result in changes.

19 DR. BEHLING: And I think Dr.  
20 Lipsztein is on the phone, so she can make a  
21 comment as to what is outstanding.

22 MR. HINNEFELD: Before we do that,

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1 I'd like to finish the thought. The PER  
2 process was a process -- that's what we've  
3 adopted, when we make a technical change in  
4 how dose reconstructions are done, we adopt  
5 this process to go back and reevaluate things  
6 that were done under the previous method. In  
7 this case our change was we published OTIB-  
8 0049 that specified the kinds of claims that  
9 that applied to. So in this case we've done  
10 this PER-0012, we have been -- have selected a  
11 population. The rest of this I think is  
12 absolutely good stuff to evaluate -- did we  
13 select the right population, all that stuff,  
14 that's good. We selected that, and then did  
15 we appropriately apply OTIB-0049 to the dose  
16 reconstruction? If in fact there are flaws  
17 with OTIB-0049 and that has to be revised and  
18 so the dose reconstruction method is changed  
19 yet again, then that is another PER, and that  
20 would have to come later.

21 I mean, to me reassessing the  
22 adequacy of our fix is essentially a review of

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1 a technical document that we have already  
2 changed, and that technical document that we  
3 have already changed is the basis for the PER  
4 that we did.

5 CHAIR MUNN: And it's the response  
6 to the PER, yes.

7 MR. HINNEFELD: So I mean to then  
8 go on and further evaluate the PER process  
9 based on a new review of our resolution is  
10 going to bollix this -- this PER-0012 is going  
11 to get all bollixed up.

12 CHAIR MUNN: Agree.

13 MEMBER ZIEMER: Agreed.

14 MR. KATZ: Just from a contracting  
15 point of view, this is for the Work Group to  
16 decide. It's something you decide, but it  
17 doesn't make sense to pay twice for a second  
18 review of a document that SC&A -- in some  
19 cases SC&A may not have reviewed the Technical  
20 Basis Document perhaps, but in a case where  
21 they have already reviewed it, you would think  
22 that would stand on its own.

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1           MR. HINNEFELD:   And my fundamental  
2           issue here is that the technical change that  
3           led to the PER is complete.  It is done.  It  
4           was the publication of OTIB-0049.  So to then  
5           include a further evaluation of OTIB-0049 into  
6           the evaluation of this PER introduces a whole  
7           other set of possible upset conditions that  
8           were not a part of the universe that was faced  
9           in the completion of the PER.  You are  
10          introducing a confounding factor into  
11          understanding whether the PER was done  
12          correctly or not.

13          CHAIR MUNN:       It's a circular  
14          process that is really not what we want to get  
15          into.

16          MEMBER GRIFFON:   Stu -- this is  
17          Mark Griffon -- Stu, I definitely agree that  
18          we should --

19                                (Telephone interruption.)

20          MR. KATZ:       For the record, Mark  
21          agreed with me, and then someone cut him off.

22          So everyone else is still on the line?

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1 DR. BEHLING: There are others  
2 still on the line.

3 MR. KATZ: Okay. He'll dial in.

4 DR. BEHLING: Let me just fill in  
5 the gap here while Mark is trying to reconnect  
6 here, and I understand that this is somewhat  
7 redundant, and what I was really hoping to do  
8 under sub-task one, two, and three is to  
9 basically consolidate and summarize what has  
10 been done. I am not going to go through the  
11 effort that Dr. Lipsztein had gone through in  
12 assessing the credibility of OTIB-0049. I  
13 will accept her comments and perhaps maybe add  
14 just a few comments and look at the PER-0012  
15 in terms of, for instance, in the case of the  
16 PER-0012 there are certain criteria which are  
17 not necessarily addressed in OTIB-0049, and  
18 that is how to select the dose reconstruction  
19 screening methods one and two --

20 MEMBER GRIFFON: Wanda, I'm sorry,  
21 this is Mark Griffon. I think I cut myself  
22 off accidentally.

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1                   MR. KATZ:        I credited it to  
2 agreeing with me, Mark.

3                   MEMBER GRIFFON:    Yes, you liked  
4 that ending, right?

5                   The only thing I was going to add  
6 on, and I think it's still pertinent, is  
7 perhaps we should consider this as part of our  
8 selection process. Like in the case of PER-  
9 0012, I would say maybe we shouldn't review  
10 PER-0012 unless OTIB-0049 has been completely  
11 through our process and all findings are  
12 closed because if we end up disagreeing with  
13 fundamental -- you know the OTIB-0049 in any  
14 substantial way, and that has to be revised,  
15 then I would say hold off on reviewing the  
16 PER-0012 at all. So I guess that would  
17 possibly be a way to look at this, we don't  
18 want to do the work twice, and I don't want to  
19 review cases that are under a PER that we have  
20 sort of fundamental disagreements with on the  
21 basis of an OTIB change or something like  
22 that.

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1                   MEMBER ZIEMER: Well, I think the  
2 issue here is whether the task of, I guess  
3 it's sub-task one, assess the evaluation of  
4 the issue and potential impacts -- is that  
5 what -- what sub-task is assessment?

6                   MR. MARSCHKE: Three.

7                   MEMBER ZIEMER: No, three is how  
8 you identify the dose reconstruction.

9                   CHAIR MUNN: Yes.

10                  MR. HINNEFELD: Assess NIOSH's  
11 specific method for corrective action. In  
12 this case that would be assess OTIB-0049. In  
13 this case it might be as simple as just saying  
14 enough has been done.

15                  MEMBER GRIFFON: But my point is  
16 that if it's under review still, I think I  
17 would hold off on moving any further until  
18 whatever entity is done reviewing it, if it's  
19 the Procedures Subcommittee or if it's another  
20 Work Group.

21                  MR. HINNEFELD: Yes, I don't have  
22 a particular strong opinion on that.

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1                   MEMBER GRIFFON:    Wait until it's  
2 finished.    We don't want to duplicate the  
3 effort in this process.

4                   MR. HINNEFELD:    I understand.    But  
5 understand that the PER-0012 is done, and if  
6 in fact there are subsequent changes to OTIB-  
7 0049, there would not be a new PER-0012, there  
8 would be a PER-0036 or whatever the number is  
9 to evaluate those.

10                  MEMBER ZIEMER:       Mark,    you're  
11 talking about the OTIB, right?    Mark, are you  
12 talking about the OTIB?

13                  MEMBER GRIFFON:       Yes, my point  
14 there was, and I understand Stu's point, but  
15 our bottom line is we want to eventually see  
16 that cases are done appropriately and have the  
17 correct scientific basis.    If OTIB-0049 is  
18 still -- and I don't know the status of it --  
19 but assume there are still some outstanding  
20 findings, I would say let's wait until we  
21 close those out in the procedures review  
22 because if in fact we end up or NIOSH ends up

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1 revising OTIB-0049, then they come out with a  
2 PER whatever, 40 or whatever number, that  
3 replaces PER-0012 sort of. I don't know that  
4 we want to review different -- we might not  
5 want to review PER-0012 right now if we are  
6 not in agreement with the scientific basis  
7 underlying PER-0012. It would just cause us  
8 to review the same sort of issue again in PER-  
9 0040, if that makes any sense. So I'm saying  
10 wait until it's closed out.

11 MR. MARSCHKE: Mark, just to give  
12 you an idea, the current status of the review  
13 of OTIB-0049 is that SC&A had identified two  
14 issues, and currently those two issues are  
15 being shown as being in progress.

16 So that means that there are  
17 still, I guess, still outstanding issues to be  
18 resolved between NIOSH and SC&A and the  
19 Subcommittee here. So what you say is very  
20 true, that depending on the resolution of  
21 these issues they could involve a revision to  
22 OTIB-0049.

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1                   MR. HINNEFELD:    You can do like  
2                   you want.    I mean we don't have a horse in the  
3                   race,    in terms of how this Subcommittee  
4                   decides to do this.    Just from my standpoint  
5                   from the review, you have a complete set of  
6                   actions from the publication of PER-0049, a  
7                   PER to implement that, that OTIB.    Okay, and  
8                   that gets us to a certain spot where we are  
9                   today, and then we have a review of OTIB-0049  
10                  that may result in some changes, may result in  
11                  changes to OTIB-0049.    Those changes, then,  
12                  may cause us to reevaluate some of the claims  
13                  again.    That will be from where they are now;  
14                  that will not be from where they were before  
15                  PER-0012.    And so it's like step-wise.    Now  
16                  you wait until the end and say, okay, when  
17                  everything is done then we'll review it, then  
18                  you have essentially two PERs to review at  
19                  that time, one, 12, which is first, and then  
20                  the number 40 or whichever it is that comes  
21                  later.

22                         MEMBER GRIFFON:    And I'm saying

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1 that we may decide, if that all happens that  
2 way, Stu, we may decide we don't need to look  
3 at 12 at all; we can just look at 40. That is  
4 just what I'm thinking in terms of the  
5 selection.

6 I mean what I certainly want to  
7 avoid is having us review the OTIB-0049 issues  
8 in two places. I think that would be very  
9 complicated.

10 MEMBER ZIEMER: Mark, the other  
11 side of the coin is that anything reviewed at  
12 this point, say with 49, it still has a couple  
13 of open issues, any changes that occurred in  
14 terms of compensation, those are in place. So  
15 if a change comes later, those aren't affected  
16 by it because they've been compensated. So  
17 those drop out of the review process.  
18 Understand what I'm saying?

19 MEMBER GRIFFON: Yes, that's true.  
20 That's true.

21 MEMBER ZIEMER: So if you want to  
22 assess whether NIOSH is correctly applying the

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1 PERs, it seems to me you look at them as they  
2 are being applied, in any cases that are  
3 affected by those, otherwise you are not going  
4 to see -- even though you say, okay, this  
5 particular OTIB is not completed yet,  
6 nonetheless we have a PER that is in effect,  
7 and we are asking, in essence, SC&A to see  
8 whether -- how they are applying that, I  
9 think. Isn't that what we're trying to  
10 achieve here?

11 MEMBER GRIFFON: Then you are not  
12 addressing the underlying science.

13 MR. MARSCHKE: Basically you're  
14 not doing sub-tasks.

15 MEMBER ZIEMER: That's exactly the  
16 point, and I think I understand the point Stu  
17 is making. We are applying the science as we  
18 have it today based on an approved PER. And  
19 we are asking if it's been properly applied.

20 MEMBER GRIFFON: Yes, I think  
21 there are two steps, and all I'm -- I think we  
22 should review the underlying science, but we

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1 shouldn't do it in two different places, you  
2 know. So if the underlying science ends up  
3 being documented in a revised TIB, and we are  
4 already reviewing that in the Procedures  
5 Subcommittee, then we shouldn't also have Hans  
6 do it in this PER review process. I don't  
7 think we should skip reviewing the underlying  
8 science.

9 MR. MARSCHKE: Can we make -- when  
10 the PER review is assigned to SC&A, can sub-  
11 task two be optional? I mean basically not  
12 optional, but I mean the Subcommittee in the  
13 assignment says the PER review has to look at  
14 the underlying science or sub-task two has  
15 already been done under separate review of, in  
16 this case, OTIB-0049, and therefore sub-task  
17 two under the SC&A review of the PER review  
18 does not need to be implemented.

19 MEMBER GRIFFON: That makes sense  
20 to me, Steve.

21 DR. BEHLING: And I think that is  
22 correct in the sense where not every PER has

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1 the technical backbone that corresponds in the  
2 case of PER-0012, too, and OTIB-0049, and so  
3 you are absolutely correct, and I certainly  
4 wasn't planning on spending a lot of time  
5 rehashing things that have already been done  
6 or are currently in progress.

7 On the other hand, PER-0012 and  
8 OTIB are, you know, it's a marriage bond  
9 between the two; one basically is based on the  
10 other. And yet there are certain factors such  
11 as the selection criteria by which the PoC,  
12 the threshold PoC, is driven by a value that  
13 is defined in OTIB-0049, and so one has to go  
14 back and say were the selection criteria that  
15 identifies the universe, and then the  
16 screening criteria number one is defined in  
17 OTIB-0012. Is that appropriate? Is it  
18 consistent with OTIB-0049? The two are very  
19 difficult to separate out entirely. It's  
20 clear that OTIB-0049 trumps the technical  
21 basis for PER-0012; there's no question about  
22 that. But yet there are still issues that are

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1 not yet necessarily specified under OTIB-0049  
2 that should be looked at in behalf of PER-  
3 0012.

4 MR. KATZ: But, Hans, those come  
5 under sub-task three, the selection criteria,  
6 et cetera. I mean those come under three. So  
7 sub-task two does not need to be done where  
8 you already have a review of an OTIB as a  
9 basis.

10 DR. BEHLING: Yes.

11 CHAIR MUNN: So it sounds as  
12 though we all need to have some thinking time  
13 around this before we come to any specific  
14 instructions to SC&A. Except that Mark's  
15 point is certainly well taken. It would seem  
16 to be redundant and in many ways adding to  
17 confusion if we continue down the path right  
18 now of spending a great deal of time and  
19 effort on PER-0012.

20 DR. BEHLING: Well, Wanda, can I  
21 just make a comment, for instance. It was  
22 never my intention, and as I've said, I have

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1 only started to look at PER-0012 in context  
2 with actually using or applying this protocol  
3 to it, and clearly at this point I would not  
4 have obviously spent a lot of time on this  
5 sub-task two. I would have probably used  
6 Joyce Lipsztein's comments and review comments  
7 and other things as an attachment and simply  
8 defaulted to them, so when we think about, oh,  
9 we're being redundant, we are paying for the  
10 same thing twice, no, I don't think I would  
11 expect to spend a lot of time writing up sub-  
12 task two that would potentially cost man hours  
13 in behalf of this particular task. I would  
14 simply default to what has already been done.

15 And I think this whole thing sort  
16 of summarizes the complexity of PERs that no  
17 two PERs are going to be identical, and each  
18 one has to be treated on its own merit,  
19 depending on what information is available,  
20 what has been done, have OTIBs been already  
21 issued, in which case some of these sub-tasks  
22 will simply be a reference to what has already

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1 been done, and we'll simply brush over it.  
2 And that's really the difficulty in writing a  
3 generic protocol.

4 CHAIR MUNN: That's true. We  
5 recognize, Hans, that you were simply using  
6 PER-0012 as an example and probably a very  
7 good example since it has generated this kind  
8 of discussion.

9 DR. BEHLING: And the reason I  
10 used it, Wanda, is first of all, it is  
11 obviously on the table, and people are already  
12 familiar with it, and the real emphasis was  
13 not so much on task three but on the selection  
14 criteria of DRs. And it provides a perfect  
15 example how this selection criteria and the  
16 total number of DRs that may want to be  
17 audited are defined. But what is the method  
18 by which the Subcommittee will make the  
19 selection. And I used PER-0012 for that  
20 reason because people are familiar with it,  
21 and they can go to OTIB-0049, look at Table 1,  
22 and say, oh yes, these are the number of

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1 permutations that you may want to look at that  
2 will affect the methodology for dose  
3 reassessment, and on the basis of that we will  
4 select certain numbers and certain types of  
5 reassessed DRs for auditing.

6 CHAIR MUNN: Well, we appreciate  
7 that, and my instinct is to follow Mark's  
8 recommendation that we -- I assume that was a  
9 recommendation, Mark -- that we actually not  
10 pursue the PER actively until we have in fact  
11 closed the OTIB-0049 issues. Am I stating  
12 that correctly?

13 MEMBER GRIFFON: Yes, that was my  
14 feeling on that one, yes.

15 CHAIR MUNN: That seems  
16 appropriate to me. The point that was brought  
17 up earlier with respect to getting something  
18 done before the next Board meeting is probably  
19 one we should think about at this juncture, to  
20 see if we can get further through our own  
21 process with these issues prior to that Board  
22 meeting. We don't have a session scheduled

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1 for this Subcommittee prior to that time. And  
2 my calendar would put it in any case toward  
3 the end of January if we assume that we were  
4 going to have a meeting before the Board. If  
5 we want to bring something to them, then we  
6 probably should pursue this further and  
7 especially take a look at what's outstanding  
8 on OTIB-0049 and make every effort to try to  
9 close those, if at all possible, during that  
10 period of time.

11 I doubt that anyone will be able  
12 to spend much time on any of these individual  
13 items that we have before us over the next  
14 month or so. It's going to be difficult. But  
15 perhaps January would offer an opportunity for  
16 that to occur. I don't know how other  
17 people's calendars look for January and  
18 whether the last week of January is something  
19 we can look at. But when we -- is it your  
20 desire to take a look at that now, or would  
21 you prefer to wait until the end of our  
22 session later in the day and look at calendars

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1 then?

2 I see Ted nodding his head.

3 MR. KATZ: You might as well see  
4 what else you have on your plate by the end of  
5 the meeting in deciding about scheduling this,  
6 unless we are going to lose some people  
7 between now and then.

8 CHAIR MUNN: I would hope not.

9 Let's keep that in the back of our  
10 head as a very good reason for us to consider  
11 a Subcommittee meeting prior.

12 Yes?

13 MEMBER ZIEMER: I still have a  
14 concern about the idea of waiting until  
15 everything is closed because, Mark, I want to  
16 just bounce this off of you. Let's suppose  
17 that something arose on the unclosed issues,  
18 maybe on this one or something like it, where  
19 it became evident that some completely new  
20 model was going to be developing and so on  
21 that might take a year or more to come to  
22 closure. I mean some of these thorny issues

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1 get passed around and around. But in the  
2 meantime, NIOSH has gone back and are redoing  
3 -- at least on this PER, right. You are not  
4 sitting by, waiting --

5 MR. HINNEFELD: We are not  
6 waiting. PER-0012 --

7 MEMBER ZIEMER: Because I think  
8 it's possible on almost every issue that new  
9 information can arise and a new PER can  
10 develop. And if we say that we want to wait  
11 until sort of closure on everything, I still  
12 have a concern about how we assess those  
13 reconstructions that are done under the  
14 current PER.

15 MEMBER GRIFFON: Paul, I guess I  
16 should clarify it. I guess I just wanted to  
17 make sure that we consider that issue, that we  
18 -- if as we are selecting the ones we want to  
19 review, I think we should consider that  
20 status.

21 MEMBER ZIEMER: Oh, okay, you are  
22 not saying automatically eliminate because

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1 there is an opening.

2 MEMBER GRIFFON: I wouldn't say  
3 automatically eliminate it, but I would also  
4 say that like in this case, PER-0012, we may  
5 say, you know, it is under review in the  
6 Procedures Work Group; it is not closed. But,  
7 however, we want to look -- but then I think  
8 we have to say we are going to look at the  
9 application only. The application, the PER as  
10 it -- because obviously we have to assess how  
11 the PER applied TIB-0049, we can't -- but in  
12 other cases where there is no sort of TIB  
13 attached, I think we look at the underlying  
14 science and the application.

15 MEMBER ZIEMER: I understand that.

16 MEMBER GRIFFON: So I'm not saying  
17 exclude it, I'm just saying make sure we --  
18 because I can just see the situation where we  
19 start talking about the underlying science in  
20 this process as well as in the OTIB-0049  
21 review , and I think we can't really -- we  
22 have to look at the application only in this

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1 instance, I would think.

2 MEMBER ZIEMER: I suppose you can  
3 go to the open issues and get a feel for  
4 whether you think there is a likelihood they  
5 will have any significant impact anyway, or  
6 sometimes things are just not closed because  
7 there is some sort of administrative thing  
8 that hasn't occurred yet, or you are waiting  
9 for revised wording in the upcoming document  
10 or something, so it's in abeyance or something  
11 like that.

12 MEMBER GRIFFON: I guess I didn't  
13 mean it be exclusionary. I meant just that we  
14 take that into account or be aware of it when  
15 we're selecting.

16 MEMBER ZIEMER: Okay.

17 CHAIR MUNN: It's only logical,  
18 and it underscores what Hans has said several  
19 times. Each of these will require an entirely  
20 different set of criteria for evaluation, and  
21 we can very easily see why.

22 MS. BEHLING: This is Kathy

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1 Behling. I just want to be sure I understand  
2 that we should then continue with our work on  
3 PER-0012. You are not telling us not to  
4 continue that work, I assume.

5 MEMBER GRIFFON: I think that has  
6 already been tasked, hasn't it?

7 MS. BEHLING: It has been, just  
8 based on this discussion. I wasn't sure if --  
9 but we will just elaborate all of that in sub-  
10 task two as to the status of OTIB-0049 and  
11 continue on with our work.

12 CHAIR MUNN: That seems reasonable  
13 at this juncture.

14 MS. BEHLING: Okay, just wanted to  
15 clarify that.

16 DR. BEHLING: This is Hans. I'm  
17 looking at basically a summary of what changes  
18 will impact the reassessment of dose, and  
19 those are pretty much summarized in Table 4-8  
20 of OTIB-0049, and we really have only a number  
21 of things that will involve dose reassessment,  
22 that is the factor of four, I assume, is not

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1 being challenged, and I don't think Super P is  
2 going to be challenged for adjusting doses  
3 based on urinalysis.

4 Is there anything that is  
5 outstanding that would grossly affect the  
6 central methodology and values as defined in  
7 Table 4-8 that would affect dose -- the  
8 reassessment of dose? Are there issues that  
9 are outstanding, maybe more semantics or  
10 things that would not necessarily affect the  
11 methodology and the quantitative elements that  
12 are going to be used in the dose reassessment.

13 I am not familiar with where we  
14 are on OTIB-0049, in essence, what specific  
15 issues are outstanding.

16 CHAIR MUNN: Does anyone have the  
17 database up?

18 MR. MARSCHKE: It's here.

19 CHAIR MUNN: Can you actually read  
20 the two outstanding issues?

21 MR. MARSCHKE: First issue is  
22 basically a clarification issue. The issue is

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1 some paragraphs need clarification, but in  
2 general it presents the data in a logical  
3 understandable sequence. Some of the sources  
4 of information in the document are not  
5 referenced. And then NIOSH's response is  
6 basically it does not appear that a specific  
7 response is going to be provided to this  
8 comment. If SC&A wishes to elaborate it more  
9 specifically on what sources of information  
10 are not referenced, then NIOSH can address  
11 this in page changes or future revisions of  
12 this document.

13 MEMBER ZIEMER: That is like an  
14 abeyance thing.

15 MR. MARSCHKE: Then basically the  
16 SC&A follow up was, NIOSH -- again, I don't  
17 know how far this goes on. Let me just scroll  
18 from here. There is a whole series of SC&A  
19 responses. The NIOSH response of the OTIB-  
20 0049-1 Part A does not satisfy the SC&A  
21 concerns. SC&A agrees with the NIOSH  
22 statement on page 41 Appendix C that the acute

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1 scenario does not produce adjustment factors  
2 that are fairly consistent -- I don't know how  
3 much you want to go through all this.

4 CHAIR MUNN: Just wanted to have a  
5 good feel for what the actual outstanding  
6 issues are.

7 MR. MARSCHKE: I can send these to  
8 Hans when I get back and make sure that he has  
9 -- he is aware of these when he does his work.

10 CHAIR MUNN: It would be helpful,  
11 I think, for Hans and Kathy to have the entire  
12 history of OTIB-0049, what the issues were,  
13 what's been closed, and where we are with the  
14 two that are in progress.

15 DR. BEHLING: Well, I remember the  
16 writeup that Joyce submitted, and based on  
17 that it was a fairly strong technical  
18 endorsement of OTIB-0049. I don't think there  
19 were any major issues that she raised in her  
20 review.

21 DR. LIPSZTEIN: Let me insert --  
22 Joyce Lipsztein -- we didn't read the last --

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1 we didn't reveal the last version of OTIB-  
2 0049, and there were some changes made. One  
3 of the things that applied to both OTIB-0049,  
4 the last one and the initial one, that we need  
5 some specification or clarification on some of  
6 the application of OTIB-0049. It's not the  
7 period that is problematic. The problem is  
8 how to apply it if someone has two exposures  
9 or someone has three exposures. There is no  
10 clarification on what to do, and that is, I  
11 think, the issue that would be important for  
12 PER-0012.

13 MR. HINNEFELD: I remember the  
14 issue. It's multiple acute exposures,  
15 monitoring, and how do you interpret it in  
16 that instance. Those are the issues, and that  
17 goes on there. I don't know that we provided  
18 a response.

19 CHAIR MUNN: So, John, does that  
20 help you any with respect to understanding  
21 better where we are?

22 DR. BEHLING: I'm trying to

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1 understand what Joyce just said. Joyce, are  
2 you implying that perhaps the Table D  
3 adjustment factors may not be appropriate for  
4 all cases of exposures? Is that what you are  
5 getting to?

6 DR. LIPSZTEIN: No, there is some  
7 clarifications because you don't know where or  
8 how you should apply it when someone is  
9 exposed, for example, in one year, and he is  
10 exposed again, for example, five years later.

11 You don't know how to apply the table, that  
12 is all. So it needs some clarifications on  
13 what to do if someone has a chronic intake, if  
14 someone has one intake in year one and then  
15 has an intake 10 years later; we don't know  
16 what to do with the numbers on this table. It  
17 needs some clarification on how to apply OTIB-  
18 0049. Maybe what we should do is I can send  
19 you our problems with how to apply OTIB-0049,  
20 and I didn't read what you wrote about the  
21 PER-0012, so I was quiet because I didn't read  
22 it.

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1 DR. BEHLING: Well, Joyce, for  
2 your information, so far my writeup is really  
3 not a strong technical evaluation that  
4 basically would compete, or even try to re-  
5 evaluate what you have already stated. Mine  
6 is not. So mine is a much more simplistic  
7 evaluation of PER-0012.

8 DR. LIPSZTEIN: And the other  
9 thing that might be important is that the new  
10 OTIB-0049 has some application of cycle  
11 samples, and we didn't review it. I don't  
12 know if it will affect PER-0012. But I was  
13 not involved in reviewing it.

14 What I was trying to say about the  
15 application that NIOSH has to clarify how to  
16 apply OTIB-0049 because I was trying to do a  
17 dose reconstruction for a worker and I had  
18 difficulty following NIOSH instructions. So I  
19 think it just has to be a clarification on how  
20 to apply 49, and that is what PER-0012 should  
21 be about, right?

22 MR. HINNEFELD: Yes, I think the

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1 response to your comment will be explanatory  
2 and will not really be particularly  
3 substantive. But it will explain how your  
4 technique would apply; that's what I believe.  
5 And so I believe that the issues remaining are  
6 not huge in terms of technical rules. That is  
7 my belief. I've been known to be wrong.

8 MR. MARSCHKE: The summary of the  
9 -- or the SC&A summary of the issue or what we  
10 would see is SC&A would like a more detailed  
11 explanation of OTIB-0049 on how to calculate  
12 doses from multiple independent acute  
13 exposures and why the approach given by NIOSH  
14 is claimant-favorable. More examples should  
15 be given including the treatment of  
16 independent intakes. As such SC&A recommends  
17 the status of Part A of the OTIB-0049 issue 1  
18 remain as in progress. So really it looks  
19 like it's asking for more explanation, more  
20 examples. They are not really saying that  
21 this was done wrong. We think that we need to  
22 do it this other way.

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1 CHAIR MUNN: That's a very small  
2 number of issues that are even being debated  
3 any longer. So if Steve can send a full  
4 history of all of the OTIB-0049 findings and  
5 the resolutions, that would be helpful, I  
6 think, for Hans and Kathy in their approach to  
7 PER-0012.

8 MR. HINNEFELD: I was wondering,  
9 Kathy, have you used the database?

10 MS. BEHLING: Yes, I can. I was  
11 about to say that I can pull up all the data  
12 and go back and get a history. And we will  
13 summarize that as our sub-task in this  
14 particular case, in this PER review.

15 MR. HINNEFELD: I believe Steve  
16 has updated all the information from SC&A, I  
17 believe is on the database, so it's all on  
18 there.

19 MS. BEHLING: Okay.

20 DR. BEHLING: Stu, this is Hans.  
21 Can I ask just maybe for a little bit of  
22 clarification. Is it the intent of NIOSH to

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1 basically review the recommended approach as  
2 stated in OTIB-0049 to see if the issues that  
3 Joyce raised are basically issues that will  
4 fall by the wayside because your protocol is a  
5 more bounding assessment that will more than  
6 adequately address any uncertainties that are  
7 being raised by Joyce. Is that what NIOSH  
8 intends to respond with?

9 MR. HINNEFELD: Well, my judgment  
10 -- and I don't have our response; the  
11 technical people should give the response --  
12 my judgment is that the scenario that Joyce  
13 describes does not occur in our dose  
14 reconstruction. If we have essentially a  
15 positive bioassay with some years separation,  
16 unless there is very clear evidence that this  
17 employee was nowhere possibly exposed, the  
18 assumption on the dose reconstruction was that  
19 the person was chronically exposed during  
20 their employment, and the acute intakes are  
21 superimposed on the chronic exposure in order  
22 to match the bioassay that you have.

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1           And I believe in that circumstance  
2           our judgment factor will still be favorable.  
3           That's what I believe, but that is strictly a  
4           judgment sitting here, and no one has told me  
5           that that is true. So don't everybody bank on  
6           that.

7           CHAIR MUNN: We had an action item  
8           for a technical call on this OTIB to try to  
9           resolve these last outstanding issues. But I  
10          have no evidence that that call took place.

11          MR. HINNEFELD: Well, no. In fact  
12          I haven't got a response. I would like us to  
13          be able to try to respond to this, just answer  
14          it without committing to a phone call first.  
15          If our answer is insufficient in some ways we  
16          can try a call.

17          CHAIR MUNN: All right, well, we  
18          will continue to carry the phone call, or we  
19          will change it when we get to that action item  
20          later on.

21          So are you okay, Hans and Kathy?

22          DR. BEHLING: Yes, one I'm trying

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1 to look back and say, okay, the issues that  
2 Joyce raised -- and let me just get an  
3 understanding and ask for comments here. We  
4 are basically reviewing a dose reconstruction,  
5 will be reviewing a dose reconstruction that  
6 assumes Type S. Now we know perhaps in some  
7 instances it was Super S, so obviously acute  
8 exposures, chronic exposures, these should all  
9 have been addressed in the original dose  
10 reconstruction. And now on your PER-0012 we  
11 are simply going to modify that by applying  
12 certain adjustment factors, in the case, if  
13 the target organ was either the lung or the  
14 thoracic lymph nodes we would simply apply a  
15 factor four, it was based on urinalysis plus  
16 the yearly adjustment factors as defined in  
17 Table D. And that would be all the revisions  
18 to the dose reconstruction would encompass it,  
19 is that correct? And it would not necessarily  
20 go back and say, okay, what was the bioassay,  
21 the original bioassay? Did it consist of  
22 potential periods or intake regimes that

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1 consist of an acute period of exposure or  
2 discrete -- acute exposures followed by  
3 chronic exposures? That would not be part of  
4 the reassessment, I take it.

5 MR. HINNEFELD: I believe you are  
6 correct, Hans.

7 CHAIR MUNN: I think you are  
8 right.

9 DR. BEHLING: So all these issues  
10 may not even come into play when we look for  
11 dose reconstructions that have been  
12 reassessed. I mean, we are basically saying,  
13 okay, for this individual where there was a  
14 potential for exposures, and the assumption  
15 was that it was Type S, we will then now apply  
16 Super S, and if in the case of lung we would  
17 apply the factor of four. If it's urinalysis  
18 based, and in addition to that the Appendix D  
19 yearly adjustment factors, and that would be  
20 the sum total of the dose readjustments.

21 CHAIR MUNN: Well, we may find  
22 that many of our concerns are moot once you

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1 actually look at the data itself.

2 DR. BEHLING: Yes.

3 CHAIR MUNN: Is there anything  
4 more to be said about this before we go to  
5 lunch?

6 MR. MARSCHKE: Wanda?

7 CHAIR MUNN: Yes.

8 MR. MARSCHKE: I just wanted to  
9 say, while we have Joyce on the line, before  
10 we break for lunch, can we talk about the two-  
11 day sampling thing, item -- this item here?

12 CHAIR MUNN: Certainly.

13 MR. MARSCHKE: And then maybe we  
14 might be able to release Joyce from the  
15 discussion?

16 CHAIR MUNN: I can see no reason  
17 why not. We go to OTIB-0029, right?

18 MR. MARSCHKE: Yes. I wanted to  
19 specifically go through the action item on  
20 Wanda's action item list of data sources and  
21 transcripts regarding practices of OTIB-0029  
22 on two-day sample issues.

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1 CHAIR MUNN: We might ask if  
2 everyone received the data that was just sent  
3 by email with respect to OTIB-0029, yesterday  
4 or the day before?

5 MR. MARSCHKE: Yes, I did send out  
6 an email on issue 1 of OTIB-0029, we had an  
7 action item to clarify Joyce's comments and  
8 upload them into the database.

9 CHAIR MUNN: And so we have item 1  
10 and item 2 were covered in that.

11 MR. MARSCHKE: So, yes, item --  
12 issue 1 and 2 were covered in that, and what I  
13 did, the Subcommittee and NIOSH up until that  
14 point had not received Joyce's comments on the  
15 NIOSH responses. So those were sent out. And  
16 then there was a specific issue about this  
17 two-day hiatus, I guess, between the time that  
18 the sample is taken -- or maybe -- yes,  
19 between the time that the worker is exposed  
20 and the time the sample is taken. And I think  
21 we talked about this a little the last time we  
22 met, and it was mentioned that in some cases

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1 this was done intentionally, and I guess --  
2 this is an email that I always see. I'll put  
3 it up on this board here now, and  
4 unfortunately I did not send this to the total  
5 Subcommittee members. But it's basically an  
6 email that I received from John. And if we  
7 can just start with about the third sentence  
8 there.

9           It says, respect to my action  
10 item, that's the two-day -- I did look into  
11 the two-day hiatus issue and determined that  
12 the basis for our concern was the early years  
13 at Y-12 and virtually all facilities with  
14 widespread documentation that it was standard  
15 policy to deliberately have a two-day hiatus,  
16 so that only uranium we were looking at was  
17 Type S. NIOSH has already confirmed that this  
18 is true, and I believe that was done at the  
19 last issue, we talked about that.

20           MR. HINNEFELD: You mean here?

21           MR. MARSCHKE: In here.

22           MR. HINNEFELD: What I said was, I

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1 recognize -- I remember when it was preferred  
2 to have the days off. I didn't intend to say  
3 that the samples were only collected with two  
4 days off. What I said was, because of lab  
5 capacity, we didn't normally, it's just that  
6 samples be collected.

7 MR. MARSCHKE: So it was -- I  
8 really confirmed that it was --

9 MR. HINNEFELD: Yes, I don't know  
10 that that actually --

11 MR. MARSCHKE: So this is a little  
12 -- the reason for that is that in the early  
13 days Type S and M uranium were not considered  
14 important contributors to the dose. NIOSH  
15 argues that later this policy was changed as  
16 evidenced by the fact that they see urine  
17 samples on Tuesdays, Wednesdays, et cetera.

18 During a site visit interview,  
19 Kathy DeMers found out that there was still a  
20 two-day break, i.e. workers took their two  
21 days off during the week. That interview is  
22 the basis for our concern.

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1           That being said, this is a  
2 relatively small problem since most intakes  
3 are in fact episodic, which specifically  
4 reduces the significance of this issue.  
5 Nonetheless if you assume chronic intake,  
6 there could be a three to tenfold  
7 underestimate of the dose if you don't take  
8 this two-day hiatus into consideration if the  
9 exposures are primarily Type M and Type S.

10           And Joyce did a detailed analysis  
11 of this which has been provided to NIOSH. So  
12 I guess I wanted to -- that is what we at SC&A  
13 have really done on this -- on this action  
14 item, to query the data sources regarding the  
15 progress on the two-day sample issue.

16           So I wanted to put that out on the  
17 table and see what the next step is to help us  
18 smooth this along.

19           MEMBER ZIEMER:       So is the  
20 suggestion that everybody had the two days off  
21 before the urine sample, regardless of which  
22 day of the week it was, it's always --

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1                   MR. HINNEFELD:       That is our  
2 understanding.

3                   MEMBER GRIFFON:   That's what I was  
4 going to ask Steve. Is there any way you can  
5 provide -- you said in that statement, that  
6 email from John, it's been well documented for  
7 -- what I want to understand is, what does  
8 well-documented mean? Do you have the  
9 document? And the second part of that was in  
10 the early years. And then, again, how do you  
11 define early years.

12                   And then I guess the last thing  
13 would be the interviews; was it one single  
14 person interviewed, or were there multiple  
15 interviews confirming this, and if there were,  
16 could we have the references for those? That  
17 would be useful.

18                   MR. HINNEFELD:   Yes. I don't have  
19 the answers to those right now, Mark, but  
20 those are very good questions. And I would  
21 like myself to know the number of interviews,  
22 and, again, defining early days is really kind

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1 of subjective. But we can look into it and  
2 see if we can tie it down a little bit.

3 MEMBER GRIFFON: It seems like the  
4 only way we're ever going to resolve this is  
5 if we have some of these documents, documented  
6 things, if there are actual procedures and if  
7 you have interviewed former HPs that have sort  
8 of confirmed, yes, this was the policy up till  
9 whenever. You know, I think that is the only  
10 way we are going to resolve this.

11 DR. LIPSZTEIN: But also the NIOSH  
12 response to our comments was that 40 percent  
13 of the samples were not collected on Monday,  
14 and I don't know how this would change because  
15 60 percent of the samples were collected on  
16 Monday, so why should we not use the Monday --  
17 even if this was not two days absence, how do  
18 we demonstrate that 40 percent of the samples  
19 were not collected on Monday. This is not  
20 important anymore.

21 MEMBER GRIFFON: That is a good  
22 point. Sixty percent, if it was equally

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1 dispersed between the five days, you'd have a  
2 stronger case -- NIOSH would have a stronger  
3 case.

4 CHAIR MUNN: So the action is for  
5 NIOSH to respond to the current comments?

6 MR. HINNEFELD: Yes, we will  
7 share that.

8 MEMBER GRIFFON: I will -- I  
9 would like SC&A to follow up on the specific  
10 questions I asked, too.

11 MR. HINNEFELD: And those were  
12 the number of interviews and what we mean by  
13 early days and what we mean by widespread  
14 documentation; is that it?

15 MEMBER GRIFFON: And the  
16 references to the interviews and the  
17 references to the documentation.

18 MR. KATZ: And another question  
19 Mark raised was, have HPs confirmed this was  
20 the policy.

21 MEMBER GRIFFON: Right, who were  
22 the interviewees, I guess.

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1 CHAIR MUNN: So it actually is  
2 SC&A's ball right now.

3 MEMBER ZIEMER: Or both.

4 CHAIR MUNN: Well, it's hard for  
5 NIOSH to respond to the comments if they don't  
6 have the comments, clearly.

7 MR. MARSCHKE: It would be kind  
8 of important to know what the references are  
9 for the documentation.

10 CHAIR MUNN: Yes. So right now  
11 it's SC&A's problem.

12 DR. LIPSZTEIN: Actually, for  
13 most of the plant's history, the plant review  
14 and collection methods were a spot sample  
15 submitted Monday morning before entering the  
16 work area. But these were samples that were  
17 submitted at a minimum of 48 hours absent from  
18 the work area, and besides is it July 1 to  
19 December 31, 1961, it was stated that Friday  
20 evening samples should be discontinued in  
21 favor of Monday morning samples. That's  
22 somewhere in 14-5.

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1 MR. HINNEFELD: What document was  
2 that, Joyce?

3 DR. LIPSZTEIN: That's from the  
4 TBD 14-5 on the I-12, the internal dosimetry.

5 MR. HINNEFELD: Okay, thank you.

6 MEMBER ZIEMER: What was the  
7 number?

8 MR. HINNEFELD: It was 14-5.

9 MEMBER ZIEMER: That is the same  
10 profile.

11 DR. LIPSZTEIN: Yes, yes.

12 CHAIR MUNN: All right, Joyce, do  
13 you have anything else to add?

14 DR. LIPSZTEIN: Not on this  
15 issue, but I have a big problem with TIB-0029.

16 I don't know if we are scheduled to discuss  
17 this. But it's the data for '47 to '51.  
18 Because the first urine samples that are given  
19 in TIB-0029 is from '52, and the TIB-0029  
20 states that from '47 to '51 they had very  
21 similar operations, and therefore they were  
22 modeled as one intake experience, but we don't

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1 have any bioassay results in TIB-0029 before  
2 '52. So I don't -- we need more documentation  
3 on why this was --

4 MEMBER GRIFFON: Why it's  
5 appropriate to use that later data?

6 DR. LIPSZTEIN: Yes, yes.

7 MR. HINNEFELD: That is on our  
8 list of things to respond to, because we just  
9 got that at the last meeting. Isn't that  
10 right, Mark?

11 MEMBER GRIFFON: I think so, yes,  
12 but NIOSH still owes theirs.

13 MEMBER ZIEMER: Okay.

14 CHAIR MUNN: Anything else with  
15 respect to OTIB-0029?

16 DR. LIPSZTEIN: And also I don't  
17 know if that's appropriate here, it's why  
18 OTIB-0029 doesn't have Type S for uranium when  
19 the DVD 14-5 says that there were Type S,  
20 there was highly soluble uranium at the site  
21 also.

22 MR. HINNEFELD: Can you say that

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1 again, Joyce? I didn't catch the first part.

2 DR. LIPSZTEIN: I said that in  
3 TIB-0029, there is only type M and type N, and  
4 not type S.

5 MR. HINNEFELD: Oh, I see.

6 DR. LIPSZTEIN: But if you go to  
7 the occupational internal dosimetry document,  
8 on Y-12, you have highly soluble uranium  
9 listed there.

10 MR. HINNEFELD: So why isn't it  
11 addressed in TIB-0029, is your question,  
12 right?

13 DR. LIPSZTEIN: Yes, why it isn't  
14 addressed at the Type F also. But for some  
15 of the cancers and internal organs, Type F  
16 would be the most claimant-favorable.

17 (Simultaneous speakers.)

18 MR. MARSCHKE: F as in Frank.

19 MR. KATZ: Okay, thank you.

20 MR. MARSCHKE: Actually I think  
21 it's covered in the issue or part of issue  
22 five under OTIB-0029. We raised a concern of

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1 why Type F is not considered. And again I  
2 think we have been doing some back and forth.

3 Again I'm looking at the database.

4 MEMBER GRIFFON: So that is in  
5 NIOSH's --

6 MR. MARSCHKE: Well, as I got it,  
7 what the Work Group directive says is NIOSH  
8 and SC&A should have a detailed teleconference  
9 to resolve this issue, Subcommittee members  
10 will be informed when the teleconference will  
11 occur. And that was back in March of this  
12 year, where that was -- that directive was  
13 given, and I guess nothing has really happened  
14 since then.

15 MR. KATZ: Stu, does that need a  
16 teleconference, or does that just need a  
17 response?

18 MR. HINNEFELD: I'll have to see.  
19 It would depend. I mean, you're using  
20 bioassay data to get your dose assessment.  
21 And you're assessing systemic organ doses. It  
22 really doesn't matter what the solubility

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1 class of uranium was. What's systemic is  
2 systemic, and it's going to behave in set  
3 given models regardless of solubility. The  
4 solubility is lung removal, that's what that  
5 pertains to. So the bioassay essentially  
6 translates directly to systemic organ dose.  
7 Talking about non-systemic organs like lung  
8 and GI tract, there may be in fact -- be some  
9 difference, so I don't know.

10 CHAIR MUNN: Is it possible that  
11 I have an error on my reference to  
12 teleconference meeting, and that it is not--

13 MR. HINNEFELD: It might be this  
14 one. I don't know.

15 MEMBER ZIEMER: I thought you  
16 said you were going to check first and see if  
17 you needed a teleconference. That was my  
18 recollection.

19 CHAIR MUNN: That was our comment  
20 with respect to issue one, but this is not  
21 issue one. This is -- I don't believe, 49.

22 MR. MARSCHKE: No, 29.

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1 CHAIR MUNN: Twenty-nine, 29?  
2 Really? I even specified the page, 29-1.

3 MR. MARSCHKE: Well, 49 is a  
4 different question. I don't know --

5 CHAIR MUNN: But this is 29.

6 MR. HINNEFELD: Twenty-nine is  
7 the Super S we had. OTIB-0049? That's the  
8 one we were talking about.

9 CHAIR MUNN: Right.

10 MR. HINNEFELD: I can't decide  
11 today whether a phone call is needed. We will  
12 determine in looking at the issue, we will  
13 determine, and if we do feel like a phone call  
14 would be beneficial, we will let the  
15 Subcommittee know, and SC&A know. We'll try  
16 to reschedule something.

17 CHAIR MUNN: All right. Anything  
18 else?

19 Shall we break for lunch? 1:30?

20 (Whereupon, the above-entitled  
21 matter went off the record at 12:21 p.m. and  
22 resumed at 1:30 p.m.)

23

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1                   CHAIR MUNN:     That was right after  
2     February, 2009, and the second paragraph,  
3     almost the next to the last line.     I had no  
4     issue except the first paragraph on page two,  
5     the last sentence.     As some of you may recall,  
6     we originally had a rather lengthy paragraph  
7     there talking about our evolution of the  
8     current tracking system.     We opted to take  
9     that out.     But having done so, we are left now  
10    -- I didn't realize this until I read it  
11    through clean -- we are now left with a  
12    sentence that says:     Initial meeting's  
13    findings and the result of process of  
14    addressing them was undertaken with a  
15    spreadsheet matrix tool for tracking progress.  
16    But then that leaves you with no feeling at  
17    all of what happened after -- initially.     We  
18    certainly have gone a long way from that  
19    simple matrix that we first started with, and  
20    my concern revolved around the fact that it  
21    seems to be incomplete.     I had suggested that  
22    it seemed to me that we still needed at least

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1 a sentence there to essentially state that  
2 that tracking process has evolved into an  
3 electronic process for not only tracking but  
4 also archiving, and didn't feel the sentence  
5 needed to say much more than that, but did  
6 feel in view of the fact that we spent a  
7 considerable amount of time developing this  
8 database, and how we operate it, and in view  
9 of the fact that I anticipate it will be used  
10 extensively as time goes on, by more and more  
11 subgroups. Don't want to go on playing with  
12 this forever, and it's been approved by the  
13 Board, but I thought we ought to discuss my  
14 reaction to it, I don't know whether anyone  
15 else had that reaction or not.

16 Paul, do you see what I mean?

17 MEMBER ZIEMER: Yes, I do. It  
18 doesn't make sense, and we either need to add  
19 to it or change it or delete it.

20 CHAIR MUNN: Yes, it seems to me  
21 that it's -- one simple sentence would take  
22 care of it I think. But this probably means

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1 that we'd have to take this back to the Board  
2 again.

3 MEMBER ZIEMER: I don't think it  
4 would change the intent, if you want to leave  
5 something in, you could say something like  
6 this, that these findings were tracked on an  
7 electronic database, it was established on a  
8 protected CDC site where access was simple for  
9 the agency, the contractor and the Board. And  
10 that would be it. It includes one of the  
11 sentences we took out. But I think as Ted  
12 said, we don't want to get into elaborate  
13 discussion of the tracking system.

14 CHAIR MUNN: No, no, I didn't  
15 suggest that we should. But it just seemed to  
16 me that we needed to at least indicate that we  
17 are no longer just tracking it on a paper  
18 matrix, which is what this suggests. Mike, do  
19 you have any problem with that?

20 MEMBER GIBSON: No, not at all.

21 CHAIR MUNN: Mark, are you back  
22 yet?

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1                   MEMBER GRIFFON:     Yes, I just got  
2                   on, Wanda. I'm sorry.

3                   CHAIR MUNN:         Okay, did you pick  
4                   up on what we were talking about?

5                   MEMBER GRIFFON:         No, I missed  
6                   that.

7                   CHAIR MUNN:         Okay, we are talking  
8                   about the transmission letter to the  
9                   Secretary.

10                  MEMBER GRIFFON:     Oh, yes.

11                  CHAIR MUNN:     Paul provided it for  
12                  us. And I pointed out that the only problem I  
13                  had with it was the first paragraph on page  
14                  two, the last sentence leaves us hanging after  
15                  we deleted that other full paragraph where we  
16                  had originally described our evolution of the  
17                  database in considerable length. Now that  
18                  sentence leaves us hanging out in midair, and  
19                  I was suggesting that we need at least another  
20                  brief sentence just to make notation of the  
21                  fact that it's evolved considerably and that  
22                  it's a fairly sophisticated tool now.

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1                   MEMBER GRIFFON:     That's fine with  
2     me.

3                   CHAIR MUNN:        So Paul is busily  
4     writing out a proposed sentence here.

5                   MEMBER ZIEMER:        The proposed  
6     sentence would be to delete -- or the proposed  
7     action would be to delete that sentence that  
8     says initially these findings and the  
9     resultant process of addressing them was  
10    undertaken with a spreadsheet matrix tool for  
11    tracking progress, and to replace that with  
12    this: to track these findings, an electronic  
13    database was established on a protected CDC  
14    website where access was simple for the  
15    Agency, the contractors, and the Board. And  
16    that would be it.

17                  CHAIR MUNN:        I would make one  
18    suggestion to your wording that would suggest  
19    that, instead of saying was established, could  
20    we say, has been developed.

21                  MEMBER ZIEMER:        Has been  
22    developed?

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1 CHAIR MUNN: Just indicative of -  
2 -

3 MEMBER ZIEMER: This wording is  
4 part of what was in there before, but that  
5 sounds better, if that is okay with Mark and  
6 Mike.

7 MEMBER GRIFFON: Fine with me.

8 CHAIR MUNN: So you want to read  
9 that whole paragraph through now?

10 MEMBER ZIEMER: The whole  
11 paragraph would state: findings and  
12 observations made from the technical reviews  
13 range from minor issues with no measurable  
14 impact on composition decisions to manage the  
15 scientific debate which may have complex-wide  
16 implications. To track these findings, an  
17 electronic database has been developed on a  
18 protected CDC site where access was simple --  
19 that should say is simple for the Agency, the  
20 contractor, and the Board. Is it contractor  
21 or contractors?

22 CHAIR MUNN: Contractors, I

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1 believe.

2 MEMBER ZIEMER: Yes.

3 CHAIR MUNN: Does that do what we  
4 need it to do, Mark?

5 MEMBER GRIFFON: Yes, that sounds  
6 fine to me.

7 CHAIR MUNN: Mike?

8 MEMBER GIBSON: Yes, that sounds  
9 fine.

10 CHAIR MUNN: All right, since  
11 Paul wrote it, I'm assuming that he agrees  
12 with it.

13 MEMBER ZIEMER: I don't think  
14 that changes the meaning from what the Board  
15 approved. It's an editorial.

16 MR. KATZ: Yes.

17 CHAIR MUNN: Does anyone else  
18 have any concerns with the letter, and our  
19 anticipated enclosures with that?

20 MEMBER ZIEMER: Could I ask  
21 Nancy, Nancy Adams, are you still on the line?

22 MS. ADAMS: Yes, I'm here.

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1                   MEMBER   ZIEMER:           Nancy,   for  
2   delivering this letter, I assume we go through  
3   the same process as we do on the others, we go  
4   through John and then through the Secretary?

5                   MS. ADAMS:    Correct.

6                   MEMBER   ZIEMER:           Okay, so I can  
7   provide this letter to you electronically, and  
8   that - as a modified letter - and what are the  
9   attachments?

10                  CHAIR   MUNN:        The attachments are  
11   the status sheet that Nancy and Steve always -  
12   -

13                  MEMBER   ZIEMER:           Okay, so you have  
14   the status sheet, Nancy?

15                  CHAIR   MUNN:        It would be the  
16   status sheet, our most recent one, the one  
17   that is not up right now because it  
18   disappeared in the transfer.

19                  MR.    MARSCHKE:        Do you want me to  
20   get you a new version of that, Wanda?

21                  CHAIR   MUNN:           Steve has the  
22   version that we were using.

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1                   MEMBER ZIEMER:     The numbers have  
2     to match.

3                   MR. MARSCHKE:     I can send you --  
4     I think I have in my archive what I handed out  
5     back at the beginning of the October meeting.

6                   CHAIR MUNN:        Yes, and that's the  
7     one that we were working from.

8                   MEMBER ZIEMER:     The letter says,  
9     538 findings.

10                  CHAIR MUNN:        Yes, 538 findings  
11     and the percentages were --

12                  MEMBER ZIEMER:     It says more than  
13     80 percent.

14                  CHAIR MUNN:        That looks right.

15                  MEMBER ZIEMER:     And 49 percent.

16                  CHAIR MUNN:        And open, 21  
17     percent.

18                  MEMBER ZIEMER:     This shows 49  
19     percent closed.

20                  CHAIR MUNN:        Yes, 49 percent  
21     closed, and 80 percent having been deliberated  
22     on one way or another.

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1                   MEMBER ZIEMER:     This shows 47, so  
2     that's a different chart.

3                   CHAIR MUNN:     Yes, that's fine.

4                   MR. MARSCHKE:            What are the  
5     percentages open?

6                   CHAIR MUNN:     He said the number -  
7     -

8                   MEMBER ZIEMER:     In the letter, we  
9     have 80 percent, more than 80 percent  
10    deliberated on.

11                  CHAIR MUNN:     Which means, yes --

12                  MEMBER ZIEMER:     And 49 percent  
13    was the total that were closed. And so 47 --  
14    so there is a discrepancy between the letter  
15    and the attachment. We need to make sure --

16                  CHAIR MUNN:     Yes, we need to make  
17    sure that's okay. And that attachment had the  
18    usual indications below it, what each of the  
19    categories meant.

20                  MR. MARSCHKE:     Yes, this one that  
21    I'm showing here now was one that I did by  
22    hand because I didn't have access to the last

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1 list.

2 MEMBER ZIEMER: Well, you see  
3 more than 80 percent, so this percentage here  
4 must have gone down and the other went up. We  
5 must have closed something at that meeting.

6 MR. MARSCHKE: October. This is  
7 really where I think you want -- well, this  
8 only shows 48 percent being closed.

9 MEMBER ZIEMER: That's October  
10 9<sup>th</sup>, but I think we changed that at the  
11 meeting.

12 CHAIR MUNN: Hopefully you can  
13 find that in your records. I'll check mine  
14 too to see if I have it. We anticipated  
15 sending that summary sheet and the chart, the  
16 bar chart.

17 MR. MARSCHKE: We have two bar  
18 charts, we have the percentage bar chart,  
19 which basically always adds up to 100 percent;  
20 and then we have the number of issues bar  
21 chart. I can send you both and you can pick  
22 whichever one you want.

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1 CHAIR MUNN: No, I think we were  
2 going to do the percentage, weren't we?

3 MR. MARSCHKE: If you are talking  
4 in percentages in the body of the letter, it  
5 makes sense.

6 CHAIR MUNN: I think that's the  
7 one we had agreed we would use.

8 MEMBER ZIEMER: Okay, so maybe we  
9 were at the second to last one, it's more than  
10 80 percent and now it's back down.

11 MR. MARSCHKE: Yes, that's  
12 because on October we went back because of  
13 lost data.

14 CHAIR MUNN: Yes.

15 MEMBER ZIEMER: So I need to  
16 change the numbers in the letter?

17 CHAIR MUNN: No, why don't we say  
18 as of October 1<sup>st</sup>, the numbers, then you  
19 wouldn't have to change anything. In the  
20 letter, if we said as of October 1, 2009 --

21 MR. MARSCHKE: I can send you  
22 this bar chart, which basically shows more

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1 than 80 percent --

2 MS. ADAMS: This is Nancy. I  
3 have a PDF file that's October 14<sup>th</sup>, 2009.

4 MEMBER ZIEMER: Right, that is  
5 the one we're looking at now.

6 CHAIR MUNN: And that is the one  
7 we were using at the time we put the letter  
8 together.

9 MEMBER ZIEMER: You have the bar  
10 chart, Nancy?

11 MS. ADAMS: I do. It's all part  
12 of the same PDF.

13 CHAIR MUNN: Yes.

14 MEMBER ZIEMER: The numbers and  
15 the bar chart?

16 MS. ADAMS: Right.

17 MEMBER ZIEMER: Okay, so you have  
18 what we need?

19 MS. ADAMS: I do. I will forward  
20 it to you just to triple check that it's the  
21 right thing.

22 CHAIR MUNN: All right. I'm

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1 fairly certain that it is, because it was the  
2 one I was using at the time we were putting  
3 the letter together.

4 MEMBER ZIEMER: If you will make  
5 a note that that will be the attachment, then,  
6 for this letter, also.

7 CHAIR MUNN: Those two things  
8 were the only thing we were going to enclose  
9 since we felt anything else would be  
10 extraneous and we agreed we would not send the  
11 SC&A report, as too voluminous.

12 All right, we know where we are  
13 going.

14 MR. KATZ: Just a note, though,  
15 we still need to collect votes from Dr. Melius  
16 and Mike Gibson to close that out before  
17 sending that letter, right? Mike, are you  
18 still on the line still?

19 MEMBER GIBSON: Yes, I'm here.

20 MR. KATZ: You got my email about  
21 your vote on this letter?

22 MEMBER GIBSON: Yes. I'm fine

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1 with it.

2 MR. KATZ: Okay, well, can you  
3 send me an email formally just letting me know  
4 that you are voting in favor of the motion?

5 MEMBER GIBSON: Will do.

6 MR. KATZ: Thank you. That's  
7 one. So then I just need to get -- I've asked  
8 Jim for his vote too.

9 CHAIR MUNN: Good. Any other  
10 issues surrounding the transmittal letter?

11 MEMBER ZIEMER: And what they  
12 have is the draft we had at the Board meeting,  
13 not this. Because we voted on the draft.

14 CHAIR MUNN: Yes, that is  
15 correct. That is correct.

16 Shall we move on to our action  
17 items? The first item that we had was  
18 transferring the two procedures from our  
19 responsibility to Rocky Flats, that memo was  
20 sent, and it should now be in their hands. Is  
21 that not correct, Mark?

22 MEMBER GRIFFON: We have it.

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1 CHAIR MUNN: Very good. That's  
2 done. And we just completed item number two,  
3 the draft of the report to the Secretary.

4 Stu is going to check with IT to  
5 verify how to provide PDF files.

6 MR. HINNEFELD: I don't have an  
7 answer yet, but I did get the question to them  
8 fairly recently, so.

9 CHAIR MUNN: Okay. That will  
10 continue.

11 OTIB-0029, is there anything there  
12 that we did not cover with our discussion this  
13 morning with Joyce?

14 MR. HINNEFELD: No I think we  
15 covered that this morning.

16 CHAIR MUNN: So we now have the  
17 action in SC&A's court to respond more  
18 thoroughly with respect to where the data came  
19 from that they are using for their comments;  
20 correct?

21 MR. HINNEFELD: Correct.

22 CHAIR MUNN: Next, query data

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1 sources and transcripts on the two-day sample  
2 issue.

3 MR. HINNEFELD: They're the same.

4 MEMBER ZIEMER: Is that the same  
5 as OTIB-0029?

6 MR. HINNEFELD: That's part of  
7 OTIB-0029.

8 CHAIR MUNN: That's part of what  
9 we were discussing under OTIB-0029. So that's  
10 -- that's actually nothing -- well, my concern  
11 here is whether we have an open issue on the  
12 database that needs to be, that we need to  
13 follow up on. Do we have an OTIB-0068 open  
14 issue? I'm trying to get back to it, I keep  
15 losing it.

16 MR. HINNEFELD: We don't have  
17 OTIB-0068 in our database at all.

18 MR. MARSCHKE: OTIB-0068 was the  
19 two-day hiatus OTIB that never got published.

20 But it's the same discussion we had in OTIB-  
21 0029. That's where we had that discussion.

22 CHAIR MUNN: Okay, since it never

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1 got published, really and truly, it's actually  
2 covered under 29.

3 MR. MARSCHKE: Right.

4 CHAIR MUNN: We should probably  
5 stop referring to OTIB-0068, because it never  
6 got published.

7 And it seems to me that that is  
8 covered by our previous discussions with OTIB-  
9 0029, or am I mistaking it?

10 MR. MARSCHKE: I believe you are  
11 correct.

12 CHAIR MUNN: So we will eliminate  
13 that, and consider it closed by reason of the  
14 previous one.

15 Distribute a draft transfer of ID-  
16 43 and 07 to Surrogate Data Work Group, and  
17 that one I have not done.

18 MR. KATZ: We want to knock that  
19 off, because the Surrogate Data Work Group I  
20 think should be meeting soon.

21 CHAIR MUNN: Yes. I'll make  
22 sure.

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1           Next item is revise two,  
2 identified changes in SC&A procedure used to  
3 review NIOSH procedures, and briefly revisit  
4 the entire text for other potential updates.  
5 This is another carry-over.

6           MR. MARSCHKE: We have done that.

7           CHAIR MUNN: You have done that?

8           MR. MARSCHKE: And there was, of  
9 the same email that transmitted the draft PER  
10 review procedure, also transmitted the revised  
11 draft of the procedure-review procedure, and  
12 the one thing we were going to change was on  
13 the -- or the one thing we were going to  
14 change in two locations was on the table  
15 checklist table, and was item 1.3, where we  
16 basically had a, in parenthesis, a statement  
17 for the reviewer to check and make sure that  
18 all the data was provided in the procedure  
19 itself, and none of the data had references,  
20 or was provided by references. And that was  
21 just not a reasonable expectation. So as you  
22 can see here, by item 1.3, we have deleted

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1 that, the parenthesis, the statement that was  
2 in parenthesis, from the checklist table, and  
3 also from further on down in the report.

4 MEMBER ZIEMER: What page is  
5 that?

6 MR. MARSCHKE: That is on page  
7 15, or 14.

8 CHAIR MUNN: On what date did you  
9 transmit that?

10 MR. MARSCHKE: That was  
11 transmitted yesterday. That was -- Judy  
12 transmitted that yesterday.

13 CHAIR MUNN: Okay.

14 MEMBER ZIEMER: With the PER  
15 report, they were both --

16 MR. MARSCHKE: -- both documents  
17 were transmitted in the same email.

18 CHAIR MUNN: I remember that now,  
19 okay.

20 MR. MARSCHKE: And then there was  
21 also, further on down I think in Section 3.4,  
22 the same phrase was in parenthesis under -- in

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1 one of the bullets, under Section 3.4, where  
2 we did go in and we deleted from there as  
3 well. And then when we performed a more -- or  
4 looked at the procedure in its entirety, we  
5 found that much of the procedure was written  
6 geared towards the first set of procedures  
7 that were under review. And in a couple of  
8 occasions, under scope, and under Section 4,  
9 select technical issues, we have really geared  
10 those sections toward the specific procedures  
11 that were included in the first set of  
12 reviews. And we have gone in -- in this  
13 revision and tried to make those two sections  
14 of the document more general, tried to  
15 generalize those, as you can see under Section  
16 2, under procedures to review, we kind of,  
17 before it had a list of the exact procedures  
18 that were included in the first round, and now  
19 we just included some general statements that  
20 these are the types of documents that will be  
21 reviewed, and so on and so forth.

22 And the other third type of change

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1 we made was, this procedure referred to task  
2 three, which was a terminology under the  
3 original contract, which is no longer included  
4 in this new contract. So we have gone through  
5 and we have changed any reference to task  
6 three and put in more appropriate references  
7 to the current contract.

8 CHAIR MUNN: And how is it  
9 currently described? I know task three is  
10 incorrect.

11 MR. MARSCHKE: I can't think of  
12 where there is a good example. I'd have to  
13 get back to you on that one, exactly where  
14 that change got made.

15 MEMBER ZIEMER: You know what  
16 would be good on a document like this would be  
17 to enumerate the changes. I'm wondering if  
18 either -- yours have a page, I guess it's like  
19 the second page after the cover page where you  
20 -- let me look at that -- you indicate the  
21 effective date and revision number and so on.

22 MR. MARSCHKE: Yes.

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1                   MEMBER ZIEMER:        I'm wondering,  
2                   whenever there is a revision, if it would be -  
3                   - would it be worthwhile enumerating how this  
4                   document differs from the previous one, this  
5                   document reflects the following changes,  
6                   Section A, Section B, whatever it is? Or  
7                   otherwise you have to lay it side by side and  
8                   say, now what did they change here. It  
9                   doesn't jump out at you. Or in the purpose,  
10                  you add a paragraph that indicates that this  
11                  is a revision of the earlier document that  
12                  includes the following changes. I'm trying to  
13                  think, I think to do it on that first sort of  
14                  summary thing would be an easy way to do it.

15                  CHAIR MUNN:        Well, especially in  
16                  light of the fact that most other governmental  
17                  agency documents do that.

18                  MR. KATZ:         Stu's focus documents  
19                  do that.

20                  CHAIR MUNN:        Exactly, and it's  
21                  very helpful, especially if you are tracking.

22                  MEMBER ZIEMER:        Or you may sort

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1 of want to review the changes.

2 CHAIR MUNN: Right. Right.

3 MEMBER ZIEMER: Now wait a  
4 minute. Where are they?

5 MR. MARSCHKE: So underneath  
6 this, we have this heading type thing, where  
7 we have all this on the front page, and then  
8 underneath this we can just list out --

9 MEMBER ZIEMER: The following  
10 revisions have been made from the previous  
11 version, page so and so, section such and  
12 such, has been revised to do something. It  
13 could be just a simple chart or something.  
14 This might be something whenever you revise a  
15 document, to indicate how does it differ from  
16 the previous one.

17 CHAIR MUNN: If you reference the  
18 NIOSH documents, you will see clearly how that  
19 is done.

20 MR. MARSCHKE: No, I know what  
21 you are talking about.

22 CHAIR MUNN: That would be very

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1 helpful. So the questions like this one would  
2 be much easier to track.

3 MR. MARSCHKE: Let me ask the  
4 Subcommittee's opinion here. We are calling  
5 this document Revision 3 because it replaces  
6 this document which was Revision 2. But we've  
7 given it a different document name, a  
8 different document number, because we've  
9 changed the way we assign numbers, so it's  
10 really, in my way of thinking anyway, this is  
11 Revision 0 of this document --

12 CHAIR MUNN: I agree.

13 MR. MARSCHKE: And supersedes  
14 Revision 2 of this document.

15 CHAIR MUNN: I agree absolutely.  
16 Otherwise -- yes, any time we change the  
17 document numbers --

18 MEMBER ZIEMER: Yes, this simply  
19 replaces --

20 MR. MARSCHKE: We need to put  
21 down what we talked about earlier, we know  
22 this, and say, these are the changes that were

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1 made.

2 MEMBER ZIEMER: Now what if you  
3 didn't change anything, but you were only  
4 changing the document number?

5 MR. MARSCHKE: Then you would put  
6 down underneath here no changes.

7 MEMBER ZIEMER: Right.

8 MR. MARSCHKE: You would put down  
9 underneath, no changes were made to this  
10 document.

11 MEMBER ZIEMER: Just a new  
12 numbering system.

13 MR. MARSCHKE: What we need to  
14 add to our cover or our summary page, we need  
15 to add, down below here, we need to say, the  
16 changes that were incorporated were, and then  
17 --

18 CHAIR MUNN: Exactly.

19 MEMBER ZIEMER: And even if it's  
20 no changes, and it's just the document number.

21 MR. MARSCHKE: The document  
22 number and change the document, something like

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1 that.

2 MEMBER ZIEMER: So what are you  
3 doing on document numbers? So this is SC&A,  
4 does PR stand for something specifically?

5 MR. MARSCHKE: Yes, it does.

6 MEMBER ZIEMER: PR stands for  
7 something.

8 MS. BEHLING: Excuse me, this is  
9 Kathy Behling, PR stands for procedure, and we  
10 do PR for a technical review, and so the PR is  
11 supposed to stand for procedure.

12 MEMBER ZIEMER: And then 2009 is?

13 MR. MARSCHKE: The year.

14 MEMBER ZIEMER: So it's procedure  
15 one of this year?

16 MR. MARSCHKE: Procedure one that  
17 was issued this year.

18 MEMBER ZIEMER: Thank you.

19 CHAIR MUNN: And in my personal  
20 opinion, Steve's comment about the numbering  
21 system is absolutely correct. This should be  
22 Rev 0 of this document.

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1                   MEMBER ZIEMER:           Of the new  
2 numbering.

3                   CHAIR MUNN:           Otherwise we could  
4 get really confused.

5                   MEMBER ZIEMER:           But you would  
6 point out that it's not just -- it's not Rev 2  
7 of the old system. It is a revision in Rev 2  
8 of the old document. It doesn't supersede it;  
9 it was a revision.

10                  MR. MARSCHKE:           Oh, yes, all  
11 right.

12                  MEMBER ZIEMER:           Otherwise you  
13 could just say --

14                  MR. MARSCHKE:           -- a number change.

15                  MEMBER ZIEMER:           Right. A number  
16 change. I think that would be helpful as you  
17 go forward to do that. But I couldn't keep  
18 track of what you said all the changes were as  
19 you went.

20                  MR. MARSCHKE:           Okay, we will add  
21 to this page a list of changes, and we will  
22 change the rev to Rev 0.

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1                   CHAIR MUNN:       Okay, so I'm going  
2                   to leave this on the list so that next time we  
3                   see it, we'll have the addition of changes  
4                   shown on the introductory sheets. So that we  
5                   can follow -- it is sort of difficult for us  
6                   to discuss the changes that were made if we  
7                   don't have them right in front of us.

8                   MR. MARSCHKE:    So the Subcommittee  
9                   doesn't want to -- okay, we will add those and  
10                  resend it.

11                  CHAIR MUNN:       And personally this  
12                  member of the Subcommittee wants to have an  
13                  opportunity to read through the new documents,  
14                  which I haven't had an opportunity to do,  
15                  being on an airplane yesterday.

16                  MR. MARSCHKE:       Well, I mean the  
17                  other part of the question, does the  
18                  Subcommittee want to give us any other  
19                  comments that we might as well include when we  
20                  issue another draft B, or should we just issue  
21                  draft B and then wait for the Subcommittee to  
22                  give us comments on draft B.

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1                   MEMBER ZIEMER:       I'm not sure if  
2 you do what I just described that that is a  
3 new revision. That is just a new format.

4                   MR. MARSCHKE:     Right.

5                   MEMBER ZIEMER:     Unless we ask for  
6 other changes. If you reissue it with that  
7 identifying sheet, it's still --

8                   MR. MARSCHKE:     It's still Rev 0?

9                   CHAIR MUNN:     I think so.

10                  MR. MARSCHKE:     I think we should  
11 identify this as Rev 0, draft 1, or --  
12 exactly.

13                  CHAIR MUNN:     Yes, probably so.  
14 That would be better.

15                  All right, if you will do that for  
16 us, then we will have an opportunity to look  
17 at it after you identified what the changes  
18 are and where they are, and we can review  
19 those briefly at our next meeting, if that is  
20 agreeable with everyone.     Anyone have a  
21 problem with that? If not, it will carry over  
22 to our next agenda, and we have a review, an

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1 individual review to do prior to that time to  
2 be ready for it.

3 The next issue that we had was the  
4 Commonalities Report, the table. And so far  
5 as I know I was the only person who had any  
6 comments that went to Steve. Steve, did you  
7 have any other comments?

8 MR. MARSCHKE: No, I did not  
9 receive any other comments other than yours,  
10 Wanda, and again, yesterday around 1:00  
11 o'clock yesterday afternoon, Judy sent to the  
12 Subcommittee the draft version of the  
13 Commonality Report.

14 CHAIR MUNN: Does everyone have  
15 that? Mike, Mark, do you have it on your CDC  
16 mail?

17 MEMBER GRIFFON: Yes, I do.

18 CHAIR MUNN: Good.

19 MEMBER GIBSON: Yes, I have it,  
20 too.

21 CHAIR MUNN: Good.

22 MEMBER ZIEMER: There is a more

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1 recent version, a November version.

2 MR. MARSCHKE: This is one that  
3 came out yesterday.

4 CHAIR MUNN: It just came  
5 yesterday on the CDC mail.

6 MEMBER ZIEMER: Did you pick out  
7 -- there were some spelling errors in the  
8 first version.

9 MR. MARSCHKE: Yes.

10 MEMBER ZIEMER: I mean the spell  
11 checker picked them out, so I assume you guys  
12 would have also.

13 MR. MARSCHKE: Wanda picked up a  
14 bunch of my spelling errors, and Nancy  
15 Johnson, our proofreader or our technical  
16 editor, she went through it and picked out --  
17 cleaned up more of my stuff, so any spelling  
18 errors are my fault. But we've had a couple  
19 of people go through it and look at it.

20 CHAIR MUNN: Okay, thank you. I  
21 see in Table 2.1, you clarified the wording  
22 there; thank you for that. I'm assuming the

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1 other concern I had about those two tables  
2 turned out to be pretty much the same thing.  
3 This was very interesting from my perspective  
4 to see the common issues here. I'm not sure  
5 exactly what we want to do with them now that  
6 we have them, but I found it interesting to  
7 see what we have. Does anyone on the  
8 Committee have any feelings about how this  
9 information should be applied, other than  
10 simply to have it available for those of us  
11 who work across a number of issues from  
12 various sites? Is there a specific action  
13 that you need taken with respect to this?

14 I certainly appreciate the work  
15 Steve has done on it. This was no easy thing.

16 And it was certainly confusing to me, as  
17 I'm certain it was to other members of the  
18 Committee. Some of these cross-cutting issues  
19 were difficult to remember where they  
20 belonged. This will help greatly.

21 We can show this on our record as  
22 closed, then, unless someone has something

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1 further they want to say at this time.

2 MEMBER ZIEMER: Well, I just  
3 wanted to double-check, now, we were only  
4 looking for consistency, weren't we, from one  
5 finding to another, for common findings?

6 CHAIR MUNN: That was the  
7 original concern that was raised.

8 MEMBER ZIEMER: And I don't  
9 recall that we saw any inconsistencies in this  
10 later, did we?

11 CHAIR MUNN: I didn't see any.  
12 Did Steve as he went through them?

13 MEMBER ZIEMER: I mean, you've  
14 looked through. Did you see any  
15 inconsistencies?

16 MR. MARSCHKE: No inconsistencies,  
17 no. There are some cases where this --  
18 actually this exercise may be helpful in that  
19 some of the common issues were resolved for  
20 some of the procedures. We can then use those  
21 resolutions to resolve where that issue pops  
22 up on other procedures. So that may be

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1 useful.

2 CHAIR MUNN: That's one of the  
3 reasons why I anticipate that this will  
4 continue to be a reference document for  
5 exactly that reason.

6 MEMBER ZIEMER: Do we need to  
7 approve the document then, or what do we need  
8 to do?

9 CHAIR MUNN: I would like to have  
10 a record of the committee having approved it,  
11 and if we are going to do that it may be that  
12 we need to give everyone a little more time to  
13 look it over, although we had more than  
14 adequate time to review the original report.  
15 The only changes that have been incorporated  
16 here have been explanations that Steve has  
17 marked with an asterisk underneath, a couple,  
18 three of the tables, just additional  
19 information identifying what the wording  
20 meant, where the words came from. I had  
21 indicated that it wasn't -- I didn't think it  
22 was clear to the casual reader where some of

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1 the similar-issue wording referenced. It  
2 didn't seem to me that it was -- it didn't  
3 actually say that the wording was the same in  
4 both cases. But the asterisk information  
5 clarifies it, I think, quite well.

6 What is your desire? Do you want  
7 to take a look at this before we approve it,  
8 or are you willing to approve it now?

9 MEMBER ZIEMER: Well, I will  
10 start us off.

11 CHAIR MUNN: Thank you, Paul.

12 MEMBER ZIEMER: I think we should  
13 approve it or accept it or whatever action you  
14 desire. And then we should, in your report at  
15 the full Board meeting, we should share the  
16 outcome with the Board. And I don't know if  
17 you've distributed this, but it seems to me  
18 it's useful to make it available to all the  
19 Board members for reference.

20 CHAIR MUNN: I think we have not  
21 distributed it, not to my knowledge.

22 MR. MARSCHKE: And we did not

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1 distribute it. When we sent the email, we  
2 sent the email only to the Subcommittee, as  
3 opposed to the other procedures email we sent  
4 to the full Board.

5 MEMBER ZIEMER: Well, it seems to  
6 me, maybe it's two motions, one is to accept  
7 the report, and the other would be a separate  
8 motion when you make the report to the full  
9 Board you keep them apprised that this has  
10 been done and to share with them a copy of the  
11 outcome.

12 CHAIR MUNN: It sounds like one  
13 motion to me, unless there are objections. If  
14 there is no objection, I will take that as a  
15 single motion.

16 Do I hear a second?

17 MEMBER GRIFFON: I will second  
18 that.

19 CHAIR MUNN: Thank you.

20 Any opposition? If anyone  
21 opposes, speak now or forever hold your peace.

22 It will otherwise be recorded as a unanimous

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1 vote of the Subcommittee to accept the report  
2 as written and to provide it to the Board as a  
3 part of this Subcommittee's report at the  
4 upcoming teleconference.

5 Hearing no objection, it is  
6 accepted, with commendation to Steve for a job  
7 well done. Thank you.

8 MR. MARSCHKE: You're welcome.

9 CHAIR MUNN: Provide more input  
10 on OTIB-4701 for Subcommittee members. Let's  
11 take a moment to get back to where -- through  
12 five other screens.

13 Let me have the screen back.  
14 Okay, 47-02. Extended radiation monitoring at  
15 Y-12. The OTIB states there were 240 distinct  
16 ID badges, but SC&A was only able to identify  
17 229. And it looks like the last notation that  
18 I believe I have is a June notation, SC&A to  
19 provide discussion as to why they agree with  
20 the NIOSH response at the next Subcommittee  
21 meeting.

22 MR. MARSCHKE: I sent the Board -

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1 - Bob Barton of our staff actually had looked  
2 at this issue, and we talked about this issue,  
3 and Bob was on the phone in the October  
4 meeting, I believe. And we've gone through --  
5 issue two has got three parts to it, and I  
6 believe we are in agreement on the first and  
7 second part. Let me just make sure -- yes,  
8 the first part was how many individuals,  
9 workers, are represented in the database, and  
10 I think NIOSH eventually -- we agreed with  
11 NIOSH on the final number eventually, and so  
12 that issue was considered to be in abeyance.

13 Part two, the issue in brief was,  
14 were zero dose values included in the analysis  
15 for all four dosimeter types. And NIOSH came  
16 back and said, yes, and we agreed with that  
17 response, and basically that portion of the  
18 issue was closed.

19 The third part, the issue in brief  
20 was that the TIB would benefit from a more  
21 substantial discussion of why the RPRT-0032  
22 values are more claimant-favorable than the Y-

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1 12 external monitoring records. And NIOSH  
2 basically gave a rather detailed analysis as  
3 I'm looking at it here. And SC&A gave an even  
4 more detailed analysis.

5 Our concern on this one as I  
6 recall was that in the NIOSH analysis, they  
7 were utilizing what is essentially weekly  
8 monitor readings, and they are using them as  
9 if they were quarterly monitoring readings.  
10 And what we've done, besides redoing this  
11 analysis, was redo the -- what the analysis  
12 that NIOSH had done except multiply all the  
13 numbers by 12.5, which would be converting  
14 them from a weekly meeting to a quarterly  
15 meeting.

16 And when we do what we thought was  
17 a comparable analysis to what NIOSH had done,  
18 we have the results that are presented here on  
19 this table or in this file. And we get -- the  
20 conclusions are very similar. We get very few  
21 instances where the conclusions differed if we  
22 had any. But we just felt that the analysis

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1 had to be done correctly, or differently.

2 CHAIR MUNN: So this is -- what  
3 you have on this screen, Steve, is your  
4 report?

5 MR. MARSCHKE: This I believe I  
6 sent to -- yesterday at eight o'clock in the  
7 morning, again on CDC mail, I forwarded this  
8 analysis that Bob Barton of our staff has  
9 done, and this is what I'm showing on the  
10 screen here now. This was -- yes, this was --  
11 I sent this to the Subcommittee yesterday.

12 CHAIR MUNN: Oh, I see, we just  
13 got it yesterday. I missed it.

14 MR. MARSCHKE: This was an email  
15 that Bob Barton had sent to me back in July,  
16 and I just forwarded it to the Subcommittee  
17 yesterday. But we did discuss this in the  
18 October -- it may have been the August, but I  
19 think it was the October meeting -- and I  
20 remember we had Bob on the phone, and we did  
21 discuss this. And -- but I don't think we  
22 ever sent the attached files. So -- for NIOSH

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1 to take a look at. And I can see that they  
2 agree with what we have done, and what they --

3 CHAIR MUNN: Yes, that jibes with  
4 the wording of the action item as I have it,  
5 that more information was required on this  
6 one. So is it possible for you to now send  
7 that data to NIOSH and to us?

8 MR. MARSCHKE: What, the  
9 analysis? I mean you're talking about what he  
10 just sent, right? Or what are you talking  
11 about?

12 CHAIR MUNN: We're trying to get  
13 a resolution of the concerns.

14 MEMBER ZIEMER: The thing you  
15 sent yesterday was from Ron?

16 MR. MARSCHKE: It was from Bob  
17 Barton.

18 CHAIR MUNN: But Bob wasn't the  
19 one who sent it?

20 MR. MARSCHKE: I sent it.

21 MEMBER ZIEMER: Right. I saw a  
22 couple you sent that were labeled Joyce, and

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1 one that was labeled Ron. This was labeled  
2 Bob.

3 MR. MARSCHKE: No, this was  
4 labeled from, it would have been from Steve  
5 Marschke. That would be the email you look  
6 for in your CDC box.

7 MEMBER ZIEMER: Right.

8 MR. MARSCHKE: And there is a  
9 forward of a NIOSH OTIB-0047 issue two, was  
10 the subject of the email.

11 CHAIR MUNN: I don't see it.

12 MEMBER GIBSON: I don't think I  
13 got that email.

14 CHAIR MUNN: No, I can't see  
15 mine.

16 MEMBER ZIEMER: This was  
17 yesterday, right?

18 CHAIR MUNN: Correct. The 16<sup>th</sup>.

19 MEMBER ZIEMER: I got several  
20 from Judy and one from you that said --

21 MR. MARSCHKE: Wait a minute,  
22 maybe it did not go to your CDC mail, I'm

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1       sorry.     It went to your real -- to your  
2       regular account.  I'm sorry.

3               MR. KATZ:     It didn't go to me at  
4       all.

5               MR. MARSCHKE:     It didn't go to  
6       you at all?

7               CHAIR MUNN:     Okay.

8               MR. MARSCHKE:     I'm sorry, it  
9       showed up on my CDC email, I thought I sent  
10      it.

11              MR. HINNEFELD:     So the contention  
12      here though I'm guessing that -- and I am not  
13      a hundred percent sure of this, but in one set  
14      we have -- I guess it's in the CEDR weekly  
15      results, is that right?

16              MR. MARSCHKE:     Yes.

17              MR. HINNEFELD:     The database,  
18      that was a weekly result?

19              MR. MARSCHKE:     Yes.

20              MR. HINNEFELD:     And the TIB  
21      reports quarterly, is that it?  And then the  
22      comparison somewhere, the comparison that was

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1 done was, the data was used as if they were  
2 quarterly, and they are actually weekly. But  
3 there is not a thirteen-fold difference  
4 between your calculated numbers and ours,  
5 right, or do you know?

6 MR. MARSCHKE: Off the top of my  
7 head, I don't know.

8 MR. HINNEFELD: I would have to  
9 look at it more, because I remember the issue  
10 from last time, and it came up last time, and  
11 I remember it. It would seem that there is a  
12 little more to it. It was treated in some  
13 fashion, and inflated from weekly data up to  
14 quarterly data in order to getting them more  
15 close to each other. Or maybe we're not  
16 anywhere close to each other. But the TIB  
17 would be the direct -- that would be the  
18 coworker study that we would say, this is what  
19 -- this is the code word for population use  
20 for dose reconstruction, and the database then  
21 should support it for SC&A, but it doesn't  
22 exactly, because it is quarterly data and

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1 being treated as quarterly data. But if we  
2 felt like each of those readings was a  
3 quarterly reading, and used the data, our  
4 number would come out thirteen times lower,  
5 the TIB number would be about thirteen times  
6 lower than the number that you guys calculated  
7 taking twelve and a half times those database  
8 numbers.

9 MR. MARSCHKE: You're saying that  
10 you would have assigned it as quarter, but it  
11 was only for the week?

12 MR. HINNEFELD: Well, if that's what it  
13 really was, there wouldn't be a thirteen times  
14 difference.

15 MR. KATZ: Nancy? I'm sorry,  
16 Nancy, or anyone -- is anyone still on the  
17 line? It's showing as if it's still live.  
18 Anybody hear us on the line?

19 MR. MARSCHKE: The issue in  
20 brief, if you read the issue in brief, it said  
21 the TIB would benefit from a more substantial  
22 discussion of why they used RPRT-0032 values

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1 were more claimant favorable than the Y-12  
2 external monitoring records. And then so --  
3 then the NIOSH response generates these tables  
4 that you see there, table one, that you see  
5 there with -- where there is an attempt to  
6 show that the monitoring data was in fact --  
7 that the e-values are -- the e-dose values on  
8 the right-hand side of the table are claimant-  
9 favorable versus the R-1 and R-2 and R-3 and 4  
10 values, listed in the body of the table. What  
11 we think is the R-1, R-2, R-3, and R-4 values  
12 that are in the body of the table, those are  
13 generated on -- from weekly data as if that  
14 weekly data were quarterly data.

15 MR. HINNEFELD: When we were  
16 putting this table together.

17 MR. MARSCHKE: When you were  
18 putting this table together.

19 MR. HINNEFELD: Okay.

20 MR. MARSCHKE: And I don't think  
21 you have to go -- we are not really asking you  
22 to go back into the OTIB and change anything.

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1 Basically this proof, if you will, that the  
2 R-32 values, the RPRT-0032 values are more  
3 claimant-favorable; this proof needs to be  
4 redone. But when Bob has redone the proof --

5 CHAIR MUNN: Hold up a minute,  
6 Steve. The reason I'm asking you to hold up  
7 is because we seem to have lost everybody on  
8 here, and I'm sure that Mark will want to hear  
9 this.

10 (Whereupon, the above-entitled  
11 matter went off the record at 2:31 p.m. and  
12 resumed at 2:34 p.m.)

13 MEMBER ZIEMER: See if Mark and  
14 Mike are still here.

15 MR. MARSCHKE: Mark, Mike, do we  
16 still have you?

17 MEMBER GRIFFON: Yep, I'm here.

18 MEMBER GIBSON: I'm here.

19 CHAIR MUNN: Let's very quickly  
20 tell them what we were talking about. Do you  
21 have Steve's email from yesterday on OTIB-0047  
22 issue two, status rationale? Mark and Mike?

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1 That's what we're discussing.

2 MEMBER GRIFFON: Yes, I couldn't  
3 find the email. And you say it didn't go to  
4 the CDC account, it went to the other one?

5 CHAIR MUNN: It went to your real  
6 account.

7 MEMBER GRIFFON: I will look on  
8 there.

9 MEMBER ZIEMER: There is an  
10 attachment, which is the document. And while  
11 we're looking for it, I want to point out that  
12 normally when there is an attachment, I file  
13 the attachments. But this attachment has no  
14 date on it and no authorship on it, so a year  
15 from now it's going to be hard to remember  
16 where this fits into the scheme of things.  
17 That's just a reminder. I think even a  
18 document like this -- it gets dis-attached  
19 from the email is my point, and therefore  
20 sometimes to put it into context, it's good to  
21 have a date on the document.

22 CHAIR MUNN: It's cumbersome to

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1 do, but what I do when I personally download  
2 something like this is, I also download the  
3 transmittal message just as a transmittal with  
4 the same title as this. It is cumbersome, but  
5 it's to make sure that I have -- if there is  
6 anything said in the transmittal that is  
7 helpful, it is there.

8 How are you doing out there in  
9 radio land, have you found it yet?

10 MEMBER GRIFFON: I'm doing  
11 peachy. Actually while I'm trying to find it,  
12 I have a recommendation that may change the  
13 status anyway. From Steve's last document,  
14 the comparative analysis, along with these,  
15 the TIB-0029 and the TIB-0047 stuff, I'm  
16 wondering whether we should reform whatever we  
17 ever had in the Y-12 Work Group. But we  
18 certainly had -- because it was under that one  
19 large work group I believe at the time, we  
20 were handling Mallinckrodt and Y-12 and  
21 several issues.

22 But I know, if memory serves me,

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1 we were looking at the state profile issues  
2 too, and we had left several open. And Jim  
3 Neton brought this to my attention a while  
4 back, but we never did close out the -- we  
5 have remaining Y-12 profile issues. So I'm  
6 wondering with all these issues and the  
7 remaining set of profile issues, whether we  
8 shouldn't reform our Y-12 Work Group and take  
9 some of these things up there. Just thought  
10 I'd throw that out while I'm looking for the  
11 email.

12 CHAIR MUNN: Thanks, that should  
13 confuse the issue.

14 MEMBER GRIFFON: Glad to be at  
15 home.

16 CHAIR MUNN: It might be helpful  
17 for you to broach that during our  
18 teleconference, if you feel that is a valid  
19 problem. Because it seems to me that would  
20 something the Board should address rather than  
21 --

22 MEMBER GRIFFON: That's fine. I

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1 just thought I'd -- I wonder what your  
2 thoughts are, too.

3 CHAIR MUNN: Well, my personal  
4 thought is if we can deal with it here, that's  
5 better. But and the only reason I say that  
6 is the more the Work Group and Subcommittees  
7 we have, the more cumbersome it is for  
8 everyone to deal with.

9 MEMBER GRIFFON: Yes, that was  
10 what I had originally thought, because we  
11 didn't have a Work Group and why create one  
12 just to deal with this. But after looking at  
13 several of this ongoing findings, I'm a little  
14 -- it's raising my concern that we might want  
15 to in some ways just key in on some of these  
16 issues.

17 CHAIR MUNN: Well, of course  
18 that's one of the reasons we asked Steve to  
19 put together the list of commonalities.

20 (Telephone interruption.)

21 CHAIR MUNN: All right, Mike, do  
22 you have the document?

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1                   MEMBER GIBSON:        No, I have not  
2 found that one.

3                   MEMBER ZIEMER:        It is not on your  
4 CDC mail. If you are looking in CDC, it is  
5 not there.

6                   MEMBER GRIFFON:        Oh, I did find  
7 it, TIB-0047 issue two, that is the subject,  
8 right?

9                   CHAIR MUNN:            You're right, that  
10 is it.

11                   MEMBER GRIFFON:        I did have it.

12                   MEMBER GIBSON:            It's regular  
13 email, not the CDC.

14                   CHAIR MUNN:            Correct, your  
15 regular mail.

16                   MEMBER GIBSON:        I have it open  
17 now.

18                   CHAIR MUNN:            Okay. Have any of  
19 you got it?

20                   MEMBER GIBSON:        Yes, I found it.

21                   CHAIR MUNN:            Good. Do you have  
22 it open? Ready to go?

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1 MEMBER GIBSON: Ready to go.

2 CHAIR MUNN: That's good. Then  
3 we'll ask Steve and Stu to give us a very  
4 quick thumbnail sketch of the discussion that  
5 was going on which is not yet complete, it was  
6 underway while you folks were offline.

7 MR. HINNEFELD: Okay, I will  
8 start.

9 CHAIR MUNN: Thanks, Stu.

10 MR. HINNEFELD: Steve, these  
11 documents that he sent yesterday -- and I  
12 think Part 3 is the one to talk about, Part 1  
13 and 2 are essentially put in bed. So Part 3  
14 is the one that I think we talk about, I think  
15 it just starts on page two of four of the Word  
16 file. Table 1 that he presents is reproduced  
17 from a NIOSH response where we said this  
18 should support our contention in the TIB that  
19 the TIB numbers, the TIB doses, are favorable  
20 compared to the actual dosimetry data which  
21 was in the CEDR database.

22 And as Steve has pointed out, or

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1 the reviewer has pointed out correctly, the  
2 values, the R-2, R-3, R-4 values in Table 1  
3 are potentially a quarterly read, I believe  
4 that's the contention. I'm not saying  
5 absolutely because I don't know for sure, but  
6 they say that it's a quarterly reading, and  
7 it's being compared to this table -- or I'm  
8 sorry, this is a weekly reading, R-1, 2 and 3  
9 are a weekly reading, which are being compared  
10 in Table 1 to a quarterly number in the e-dose  
11 column, and the quarterly dose -- e-dose  
12 column is the number from the coworker TIB.

13 So really the comparison, we  
14 cannot compare weekly numbers, you should  
15 multiply that by twelve and a half and you get  
16 their Table 2 which is on the following page,  
17 and then that shows which of those one, two,  
18 three and four numbers get -- it's not  
19 necessarily some of those numbers are higher  
20 in some cases than the e-dose. Although yes,  
21 even in one case the total is higher for R-2.

22 Now as I recall there are some

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1 complicating factors here. I think I recall  
2 that R-1 is the canceled dosimeter reading,  
3 and R-2, 3 and 4 are other, like filtered  
4 badge, or unfiltered badge readings. I don't  
5 remember which is which, so there are some  
6 things to consider there.

7           And the other thing I think that  
8 complicates this analysis, if I remember our  
9 original response, is that it's clear from the  
10 reporting of data, the CEDR data, that there  
11 are for quite a period of time the --  
12 essentially all of the results are 30, which  
13 is the reporting level. So it appears during  
14 those periods of time, rather than reporting  
15 zero, they reported at reporting levels, 30.  
16 So it's a little more complicated than adding  
17 the numbers up, but it is a fact that the  
18 table that was presented in our response,  
19 Table 1 in this document, is not convincing  
20 support for our contention that the coworker  
21 approach is more favorable than the actual  
22 reading. That is a true statement, and it's

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1 just going to take some more time to go back  
2 through and adjust and figure out what to say.

3 MR. MARSCHKE: I agree with what  
4 Stu said. In Table 2 if you look at the  
5 response from Table 2, it's basically taking  
6 the numbers from Table 1 and multiplying them  
7 by twelve and a half, and then Bob Barton  
8 realized, again like Stu said, that there are  
9 a bunch of 30s in there, which are really less  
10 than NBL values, so instead of using 30 you  
11 use 15, then you get the values which are  
12 really in Table 3, then I think the majority  
13 of them if not, maybe only one -- maybe only  
14 one or two, not very many if any, exceed the  
15 e-values. Our values are always less than the  
16 e-values except for maybe one or two. I can  
17 see 1949 the R-2 value that seems to be  
18 higher.

19 But again --

20 MEMBER ZIEMER: Well, the e-value  
21 is supposed to be yearly?

22 MR. HINNEFELD: Well, the e-value

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1 is --

2 MEMBER ZIEMER: Is that quarterly  
3 or yearly?

4 MR. HINNEFELD: That's a  
5 quarterly value. E-value is quarterly.

6 MEMBER ZIEMER: Quarterly, okay.

7 MR. HINNEFELD: It's listed here  
8 by year, quarters one, two, three and four,  
9 and then it's the total for the year, it's  
10 listed.

11 MEMBER ZIEMER: E-dose is what?

12 MR. HINNEFELD: That's the number  
13 in the coworker table.

14 MEMBER ZIEMER: Right, is that  
15 the yearly value?

16 MR. HINNEFELD: Well, the bold  
17 one, where it says total, that's a yearly  
18 value. The 1948-1 is the first quarter of  
19 1948.

20 MEMBER ZIEMER: Which table are  
21 you looking at?

22 MR. HINNEFELD: I'm looking at

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1 Table 3 right now.

2 MEMBER ZIEMER: R-1, R-2, R-3  
3 and R-4 are quarterly values, with calculated  
4 --

5 MR. HINNEFELD: Calculated to be  
6 quarterly, yes. In two and three, those are  
7 calculated to be quarterly from the weekly  
8 numbers, Table 1 has just the weekly numbers,  
9 in R-1, 2, 3 and 4.

10 MR. MARSCHKE: The first four  
11 lines of the table are supposed to be  
12 quarterly numbers, all the way across.

13 MEMBER ZIEMER: What's R-1, R-2,  
14 R-3?

15 MR. MARSCHKE: R-1, R-2, R-3, is  
16 different -- one of them is -- what is it?

17 MR. HINNEFELD: I think R-1 is  
18 the pencil dosimeter. I think R-2 is the open  
19 window. I think R-4 is cadmium filter. I  
20 don't know what R-3 is. But I'm just going  
21 from memory and I could be wrong.

22 MR. MARSCHKE: The different

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1 types of doses that were measured?

2 MR. HINNEFELD: Yes, different  
3 dose quantities in the CEDR database.

4 MR. MARSCHKE: So really the  
5 concern was that these numbers here, R-1, R-  
6 2, R-3, are really weekly numbers.

7 MEMBER ZIEMER: I understand  
8 that.

9 MR. MARSCHKE: And we are  
10 carrying them over here to the quarterly  
11 numbers.

12 MEMBER ZIEMER: But when you  
13 redid Table 3, these are all lower?

14 MR. MARSCHKE: When we redid  
15 Table 3 was, we took the Table 1 numbers and  
16 just multiplied by twelve and a half.

17 MEMBER ZIEMER: That was for  
18 Table 2.

19 MR. MARSCHKE: For Table 2, and  
20 then for Table 3, up here like I said, we  
21 changed the zeroes, the thirties were changed  
22 to fifteen. And this is kind of like what Stu

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1 is saying, is that more -- the Table 2 numbers  
2 are a simplification, and probably need to do  
3 more analysis than just that, and whether or  
4 not you have to do what's in Table 3 or  
5 something more or along those lines.

6 MEMBER GRIFFON: I tend to agree  
7 with Stu that it is more complicated. I mean  
8 I hear you saying that there were a lot of  
9 requisite thirty values, but also I'm reading  
10 in the database the response for finding 47-2  
11 it says that although it was stated that  
12 zeroes were excluded from this analysis, it  
13 turns out that zeroes were not always  
14 excluded, and that the -- on April '48 through  
15 December '49, the 25<sup>th</sup> percentile, dose for 11  
16 of the 21 months were equal to zero. So I  
17 think there is -- I guess I tend to agree with  
18 Stu that a little more work needs to be done  
19 here to prove the case. I'm still not clear  
20 whether or when zeroes were excluded. Certain  
21 30s were recorded in some years. Did the  
22 policy change? I'm not quite clear.

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1                   CHAIR MUNN:     Well, in part two of  
2 this particular issue, the brief that we are  
3 all looking at, the summary NIOSH response  
4 says the analysis included all zeroes but  
5 removed entries listed as NR, and SC&A said  
6 they revisited and agreed that the zeroes were  
7 in fact included for all four cases, and that  
8 entrees listed as NR were not included in the  
9 analysis. So doesn't that answer the question  
10 you were asking, Mark, or does it not?

11                   MEMBER GRIFFON:     Yes, it shows --  
12 yes, I didn't see that, so that's part two, it  
13 says that all zeroes were included. But then  
14 I guess the table -- I'm not sure where we  
15 stand, I guess is the question. I mean it  
16 sounded like Stu said he wants to go back and  
17 look further at this because of the recording  
18 of the MBL issue . SC&A may have in Table 3  
19 offered a sort of a way to get around that,  
20 but I'm not sure that is their place to do,  
21 once again. But I've taken half the MBL, I  
22 mean, I don't know that NIOSH has said that

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1 they are going to do that in their coworker  
2 models. So I guess I don't know where NIOSH  
3 stands with their responses to questions.

4 MR. HINNEFELD: There is a fairly  
5 long response that we wrote some time ago that  
6 -- sent in August that we haven't managed to  
7 get in the database yet, I haven't managed to  
8 get it in the database yet. Because it really  
9 needs to be linked. It's long, it's a long  
10 document, and it really needs to be a linked  
11 document, and that was one of the things that  
12 we had to fix when we read this over. It was  
13 just a linked document.

14 So there is some information that  
15 has been prepared that is not available in the  
16 database we used to get here. So I think  
17 there is a way out of this. I want to make  
18 sure in my own mind I understand R-2, R-3, and  
19 R-4, because our response does identify them  
20 as being from bad results, but it's not clear  
21 why somebody has three different film badge  
22 readings.

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1                   MEMBER ZIEMER:       Well under each  
2 filter, maybe.

3                   MR. HINNEFELD:     I'm thinking it's  
4 different filters.   And we have a TIB that  
5 describes -- there is a TIB that describes --

6                   MEMBER ZIEMER:   For the most part  
7 those numbers won't be very different.

8                   MR. HINNEFELD:     So I need to --  
9 we need to on our side sort out what the --  
10 what we know, and what the issues-- how to  
11 formulate this a little better.

12                   MEMBER ZIEMER:   Okay.

13                   CHAIR MUNN:       So we're left with  
14 an open action item for NIOSH to what, to  
15 organize and re-present the data that is  
16 already available?

17                   MEMBER ZIEMER:       The data or  
18 something else.

19                   MR. HINNEFELD:       Again in fact,  
20 the fairly long response I sent in August  
21 predates the document that Steve sent last  
22 night. They had the benefit of that document,

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1 I think.

2 MR. MARSCHKE: I think that Table  
3 1 came out of that document.

4 MR. HINNEFELD: Table 1 came out  
5 of that long response, so they had the benefit  
6 of that when they wrote the most recent, so  
7 it's probably going to be an iteration of us  
8 and them in the database, and then we go  
9 another round.

10 CHAIR MUNN: Okay.

11 MR. MARSCHKE: So Stu, do we have  
12 that long response document?

13 MR. HINNEFELD: I sent it in  
14 August, I sent it to the Subcommittee in  
15 August.

16 MR. MARSCHKE: Oh you sent it to  
17 the Subcommittee, okay.

18 MEMBER ZIEMER: Do you know what  
19 it was called?

20 MR. HINNEFELD: NIOSH responses  
21 to selected findings from third set ER review  
22 underscore to Subcommittee underscore August

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1 20<sup>th</sup>, '09. And so I would think I sent it on  
2 August 20. And there are a series --

3 MEMBER ZIEMER: It's dated August  
4 13<sup>th</sup>.

5 MR. HINNEFELD: There are a  
6 series of things that we added in there, but  
7 this specific one on 47-2 is in there, just  
8 one of the selected ones.

9 CHAIR MUNN: All right, so I'm  
10 going to keep this action item open. NIOSH is  
11 going to reorganize and present the material  
12 that already exists on this issue. For OTIB-  
13 47-01, and it's three segments.

14 MEMBER ZIEMER: It is 02, I think.

15 CHAIR MUNN: It's 02?

16 MR. HINNEFELD: Yes, 47-02.

17 CHAIR MUNN: What did we do with  
18 01? I thought what we were looking at here  
19 was -- this was issue number 2. And there  
20 were three parts to issue two, and these are  
21 the three parts that we are talking about  
22 here.

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1 MR. HINNEFELD: Yes.

2 CHAIR MUNN: So you are telling  
3 me that the open item ought to be -- okay. So  
4 issue one is -- what is the status of issue  
5 one, then? Why am I still carrying it?

6 MEMBER ZIEMER: You know in that  
7 document, Stu, that you just referred to,  
8 there is almost nothing on 47-02.

9 MR. HINNEFELD: Maybe it is 47-  
10 01.

11 CHAIR MUNN: Forty-seven oh one.

12 MEMBER ZIEMER: There is an  
13 extensive discussion of 47-01.

14 MR. HINNEFELD: That's the one  
15 where it didn't support --

16 CHAIR MUNN: So it's shown --

17 MR. HINNEFELD: That is dash oh  
18 one.

19 CHAIR MUNN: This is dash oh one?

20 MR. HINNEFELD: Yes.

21 CHAIR MUNN: That we have been  
22 discussing?

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1 MR. HINNEFELD: Yes.

2 CHAIR MUNN: That's what I  
3 thought, but then you just told me no.

4 MR. HINNEFELD: Yes, and you were  
5 right.

6 MEMBER ZIEMER: No, it's 01.

7 CHAIR MUNN: And then 02.

8 MEMBER ZIEMER: Before we leave  
9 01, I think --

10 MR. HINNEFELD: Well, the same  
11 finding, the same finding is number three in  
12 dash oh two, it seems to be the same as the  
13 finding in one.

14 MR. MARSCHKE: I think that is  
15 the key. I think we decided upon that last --

16 MEMBER ZIEMER: That was on one.

17 MR. MARSCHKE: Because 01 - when  
18 we resolved part three of issue two, we also  
19 took care of issue one. So it's kind of  
20 redundant on our part.

21 CHAIR MUNN: Okay, so that is why  
22 R-2 carryover item says check incorporation of

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1 closure data in OTIB-47-02. But if 47-02 item  
2 three is the one that we are going to be  
3 dealing with under finding 47-01, then one of  
4 the two of them needs to say -- needs to  
5 reference the other, and be closed, correct?  
6 Should not 01 reference -- shouldn't 02 be  
7 closed, and reference that it's being dealt  
8 with in item one?

9 MR. HINNEFELD: The problem you  
10 have, Wanda, is 02 is a three-part issue.

11 CHAIR MUNN: Yes, I understand  
12 that.

13 MR. HINNEFELD: So you have -- I  
14 mean, you could say the third part of it is  
15 closed or is addressed in issue one, and the  
16 third part of it therefore doesn't need to be  
17 further chased as part of issue two. And then  
18 part one, I guess, of issue two is we do  
19 recommend putting it in abeyance and recommend  
20 part two, we recommend it be closed. So I  
21 guess issue two would then be changed in  
22 abeyance, that would be the most --

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1                   CHAIR MUNN:           It would seem  
2                   logical to me that we close one or the other  
3                   of them, and if we want to track it through  
4                   02, as it's broken out into its three parts,  
5                   then that is fine. But whichever we choose to  
6                   do, it seems foolish to continue to track the  
7                   same issue in both finding one and finding  
8                   two. So which is most logical from the  
9                   database-maintenance point of view?

10                   MR. MARSCHKE:    I think it's most  
11                   logical to keep tracking one as a separate  
12                   issue, and then basically issue two would then  
13                   consist really of two parts, the part about  
14                   the number of badges, and the questions about  
15                   zeroes at the end included or not included.  
16                   And I think we have a meeting of minds between  
17                   SC&A and NIOSH on those key parts. So issue  
18                   two would then be restated to in abeyance or  
19                   closed.

20                   MR. HINNEFELD:    Right, and for  
21                   completeness, since we have been talking about  
22                   part three, we can just say part three is

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1 addressed --

2 MR. MARSCHKE: In the text. In  
3 the Work Group directives up in here, we would  
4 say part three of this issue would be  
5 addressed --

6 (Simultaneous speakers)

7 CHAIR MUNN: And we have already  
8 recommended closure of part two. So that  
9 leaves --

10 MEMBER ZIEMER: Well, SC&A  
11 recommended closure on part two, and in  
12 abeyance on part one, but we haven't actually  
13 formally accepted those yet, right?

14 CHAIR MUNN: Well, SC&A and NIOSH  
15 have agreed on part two?

16 MEMBER ZIEMER: Right. I'm  
17 speaking of Mark -- Mark?

18 MEMBER GRIFFON: Well, what is  
19 part two? Is that the --

20 CHAIR MUNN: Do you have your --

21 MEMBER GRIFFON: -- R-1 to R-3,  
22 any instance of zero was not included, but it

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1 was included for all four, is that the one  
2 we're talking about?

3 MR. MARSCHKE: That is part two  
4 of it, yes.

5 MEMBER GRIFFON: And what is the  
6 conclusion, that all the zeroes were included  
7 for all four?

8 MR. HINNEFELD: The NIOSH, our  
9 response to the initial comment was that the  
10 analysis included all zeroes but removed  
11 entries listed as NR, which presumably is not  
12 read.

13 MEMBER GRIFFON: But it included  
14 all the zeroes for all R-1, R-2, R-3 and R-4?

15 MR. HINNEFELD: Yes, well at  
16 least two, three and four. R-1 was not a film  
17 badge reading.

18 MEMBER GRIFFON: R-1 was the  
19 pocket dosimeter?

20 MR. HINNEFELD: The pocket  
21 dosimeter.

22 CHAIR MUNN: I just don't want to

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1 carry two issues forward if we have only one.

2 MEMBER GRIFFON: I don't think  
3 you have to carry that one forward. It's just  
4 a statement of fact, right; NIOSH has  
5 corrected that, that they in fact did include  
6 the zeroes?

7 MR. HINNEFELD: Yes.

8 MEMBER GRIFFON: So I guess  
9 that's fine.

10 CHAIR MUNN: All right. Steve is  
11 going to make this magically happen to our  
12 database, right?

13 MR. MARSCHKE: When we get the  
14 database back.

15 CHAIR MUNN: Whenever it occurs.

16 MEMBER GRIFFON: Did anyone look  
17 into this not-recorded question, I'm curious  
18 what percentage of -- how many NRs were there  
19 in the various fields, and why were they not  
20 recorded, or why were the field of NR be  
21 filled out for the damaged film, damaged --

22 MR. HINNEFELD: I don't know off

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1 the top of my head. Maybe the person who  
2 monitored for that week or whatever, they  
3 weren't in the area that week. But the  
4 documents, the underlying documents, might  
5 say. I would need some time to find out.

6 MEMBER GRIFFON: Because to me,  
7 an NR could mean not recorded or not read, and  
8 those could be different, obviously. You  
9 could decide not to record a value because it  
10 looks like the film was overexposed, in  
11 advertently or whatever, or the pocket  
12 dosimeter was dropped, you know.

13 MR. HINNEFELD: Right.

14 MEMBER GRIFFON: But you could  
15 not read it because you just decided not to  
16 read all films. That's a very different  
17 circumstance. I was just curious.

18 CHAIR MUNN: So can we call it  
19 the original SC&A report where the findings  
20 should tell us that?

21 MR. MARSCHKE: I would think.

22 MR. HINNEFELD: I think the -- I

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1 don't know.

2 MR. MARSCHKE: I am just looking  
3 -- again, part of the email that I sent out,  
4 there was a second file attached to the email  
5 that I sent yesterday, an Excel file, which is  
6 a Y-12 database, external dose database. And  
7 if you look in column N, O, P and Q of the Y-  
8 12 external database worksheet, you can see  
9 the NRs are -- those are the doses, those are  
10 the raw data that we are talking about, this  
11 file contains the raw data that we are talking  
12 about.

13 MEMBER GRIFFON: Where is this  
14 data?

15 CHAIR MUNN: In the Excel file.

16 MR. MARSCHKE: The Excel file  
17 that I attached to the email, 4-megabyte file  
18 that I attached to it, there are three  
19 worksheets in that file, the Y-12 external  
20 database worksheet. And the columns N, O, P,  
21 Q are readings one, two, three and four, even  
22 though Q is labeled comments, it's really the

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1 reading four. And the question about how many  
2 go through there, and I have not done this,  
3 Mark, but we could do that right now.

4 MEMBER GRIFFON: I didn't see the  
5 spreadsheet before.

6 MR. MARSCHKE: We could do a --  
7 you could do a -- you could count up the  
8 number of NRs in there. I don't know that we  
9 have done that, let's put it that way. I  
10 don't know that we have done that, but we can  
11 certainly go through there and count up -- do  
12 a sum if, or count, I guess, how many NRs  
13 there are in each one of those columns, and  
14 that would tell us how many -- what the  
15 percentage of NRs are. It won't tell us why  
16 it's an NR.

17 MEMBER ZIEMER: Well, for  
18 example, the first name on the list has all --  
19 basically all NRs through the early part of  
20 '48. Maybe he didn't wear a film badge. Then  
21 it starts to be recorded.

22 MEMBER GRIFFON: And there is a

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1 lot of -- we don't have to do it now  
2 obviously, but I have the data, so I can look  
3 at this myself. I'm not asking for any  
4 action. But just from the interviews I've  
5 seen on there at sites, I was told that the  
6 pocket dosimeters were usually not recorded,  
7 they were just used for field controls. And I  
8 was just curious, the number of NRs for the  
9 pocket dosimeters versus the films and stuff  
10 like that. But I don't think I'm asking for  
11 any action. I was just curious. And thank  
12 you for pointing that out, the spreadsheet; I  
13 didn't see that.

14 CHAIR MUNN: Okay, so you can  
15 satisfy yourself from the data you have?

16 MEMBER GRIFFON: Absolutely.

17 CHAIR MUNN: Okay, good. Now I'm  
18 still not crystal clear on where we are with  
19 what we are going to do on the status of these  
20 two leftovers on OTIB-0047. But Steve knows  
21 what we are doing, right?

22 MR. MARSCHKE: What I would

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1 recommend to the Subcommittee that we do is  
2 that OTIB-0047-1 be tabbed in progress, until  
3 NIOSH gets back to us with their response to  
4 the email that I sent out yesterday. And then  
5 OTIB-0047-2, we change the status of that from  
6 in progress to in abeyance, with a note added  
7 to the Work Group directive portion saying  
8 that on this date, November 17<sup>th</sup>, part three  
9 was -- the status of part three of this issue  
10 was changed to addressed in issue OTIB-0047-1,  
11 and no longer needs to be addressed under this  
12 issue.

13 CHAIR MUNN: Yes.

14 MR. MARSCHKE: And then basically  
15 -- and that is that.

16 CHAIR MUNN: Good, that should  
17 work, perfect.

18 So for all intents and purposes,  
19 we have our arms around OTIB-0047 where we  
20 are.

21 MEMBER ZIEMER: And 49 -- oh,  
22 that's both 47.

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1 CHAIR MUNN: All right? Now our  
2 next item was OTIB-0051.

3 MR. HINNEFELD: Wanda, have you  
4 given any thought to time for a break this  
5 afternoon.

6 CHAIR MUNN: Yes, I have. I  
7 thought there wasn't going to be much going on  
8 with 51 and so I thought I'd look at it before  
9 I declared a little break.

10 MR. HINNEFELD: It's always self-  
11 serving.

12 CHAIR MUNN: Yes, it is. The  
13 action item was to link OTIB-0051-01 to the  
14 white paper and close the item on the  
15 database. Were we able to get that done or  
16 not?

17 MR. HINNEFELD: As far as I know,  
18 we haven't got the links working.

19 CHAIR MUNN: All right, so we'll  
20 call that a carry-over to next time.

21 It is 12 minutes after three  
22 o'clock. We need a break. Let's call it a

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1 10-minute break and make sure you are back by  
2 15. You will return about 3:20?

3 (Whereupon, the above-entitled  
4 matter went off the record at 3:12 p.m. and  
5 resumed at 3:23 p.m.)

6 CHAIR MUNN: Let's take up where  
7 we left off. The next item on our list was  
8 the one that we had pursued briefly before,  
9 the Tech Call on 49-01, which I understand  
10 never occurred. And I guess the question for  
11 our action item list is whether or not it is  
12 going to occur.

13 Is that going to happen? This is  
14 estimating doses for plutonium, strongly  
15 retained in the lung. It's that issue.

16 MR. HINNEFELD: I think we would  
17 like to write a response first, and see if the  
18 conversation then would be helpful after that.

19 CHAIR MUNN: Okay, we are going to  
20 change -- response due, and that's a NIOSH  
21 action, correct?

22 MR. HINNEFELD: Yes.

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1                   CHAIR MUNN:       That's what the  
2                   action item will say next time. The next  
3                   action item, OTIB-0057. Send the current  
4                   material to the Subcommittee and update the  
5                   database of the SC&A action.

6                   MR. MARSCHKE:    We did not update  
7                   the database. We started to update the  
8                   database. I did the status changes, but I did  
9                   not include the NIOSH responses nor the SC&A  
10                  response to the NIOSH responses.

11                  CHAIR MUNN:    Did we get -- I'm not  
12                  clear what sending current material to us  
13                  would involve. Did that happen?

14                  MR. MARSCHKE:    No, that did not  
15                  happen. It should have happened, but it did  
16                  not happen. I don't have any good reason why  
17                  it did not happen.

18                  CHAIR MUNN:    So our current action  
19                  item is to send the current material to the  
20                  Subcommittee.

21                  MR. MARSCHKE:    Yes.

22                  CHAIR MUNN:    And provide the hot

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1 link for the supporting data, right? The hot  
2 links stuff needs to stay in there.

3 MR. MARSCHKE: What we have is the  
4 response to issue number three is quite --  
5 particularly on the SC&A portion -- quite  
6 long. I guess that is what they were talking  
7 about.

8 CHAIR MUNN: Yes, that's what we  
9 were talking about. We were talking about  
10 having a hot link to get to that exclusive  
11 material we had.

12 MR. MARSCHKE: All the portions  
13 about updating the database, until the  
14 database gets stable --

15 CHAIR MUNN: Changed, changed,  
16 changed, that's happened.

17 MR. MARSCHKE: It's happened, but  
18 it may become unhappened, when they update it.

19 CHAIR MUNN: I understand. I  
20 assume that you will double-check that, and  
21 our remaining action item that is clearly open  
22 is sending current material to the

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1 Subcommittee and providing a hot link to the  
2 supporting data.

3 MR. MARSCHKE: That is right.

4 CHAIR MUNN: Okay. Next item is a  
5 carryover from last time, a NIOSH item to  
6 provide a response for PROC-95.

7 MR. MARSCHKE: We still owe you  
8 those.

9 CHAIR MUNN: Next item, check the  
10 documents on PROC-97 and assure all nine  
11 findings are covered by a PR-12. And that's  
12 the SC&A item.

13 MR. MARSCHKE: We still owe you  
14 that.

15 CHAIR MUNN: Next item is load  
16 responses into database and ensure paragraphs  
17 are numbered properly for TIB-0013. NIOSH?

18 MR. MARSCHKE: Not done yet.

19 CHAIR MUNN: The other carryover  
20 for responses to 54 and 14 to NIOSH. Did you  
21 not send us 54? I'm trying to remember  
22 whether we saw the responses for 54.

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1 MR. MARSCHKE: We still owe those.

2 CHAIR MUNN: I was imagining  
3 things? Okay.

4 No, I don't see 54.

5 MEMBER ZIEMER: PROC 97, was that  
6 an SC&A action?

7 MR. HINNEFELD: It was an SC&A  
8 action.

9 CHAIR MUNN: Yes, it was.

10 MR. HINNEFELD: Worker outreach.  
11 That was the ORAU. ORAU doesn't do worker  
12 outreach any more. We have a different  
13 contractor who rewrote the procedure. We  
14 attempted to address some of the findings from  
15 PROC-97. I'm not saying we did that for all  
16 of them, but some of them we did.

17 CHAIR MUNN: Your job was to check  
18 the two and see, and make sure that everything  
19 was carried over properly.

20 MR. MARSCHKE: Clarification, we  
21 don't have -- this is basically just to check  
22 the nine findings, the nine PROC-97 findings

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1 and not to do a separate review of TIB or PR-  
2 0012.

3 CHAIR MUNN: No, it was to make  
4 sure that the carryover was correct.

5 MR. MARSCHKE: Just to make sure  
6 we're on the same page.

7 CHAIR MUNN: Absolutely. Status  
8 of TIB-0010, item eight for possible closure?

9 MEMBER GRIFFON: Can we go back to  
10 the last one just for a second?

11 CHAIR MUNN: Back to where?

12 MEMBER GRIFFON: Back to your last  
13 action item, or your last agenda item?

14 CHAIR MUNN: Right, 54 and TIB-  
15 0014?

16 MEMBER GRIFFON: Yes, TIB-0014,  
17 are they ORAU TIB-0014 or OCAS TIB-0014.  
18 Because I'm still on TIB-0014 is transferred -  
19 - oh well, TIB-0014 has transferred, maybe I'm  
20 looking at the wrong one.

21 CHAIR MUNN: Hold on, let me see  
22 if I can get to the right spot. OTIB-0014.

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1 MR. HINNEFELD: OCAS TIB-0014 is  
2 the extension of Rocky Flats.

3 MEMBER GRIFFON: But if it's TIB -  
4 - if it's OCAS TIB-0014, didn't that go to the  
5 Rocky Flats?

6 MR. HINNEFELD: Yes, that's one  
7 that should be transferred to Rocky Flats.

8 MEMBER GRIFFON: Oh, okay, got it,  
9 thank you.

10 CHAIR MUNN: Okay. TIB-0010-8 for  
11 possible closure?

12 MR. HINNEFELD: I don't have  
13 anything today. OTIB-0010 is the glove box.  
14 This is about benchmarking the ATTILA with  
15 MCNP, and basically we just, we take a look at  
16 the NIOSH MCNP for any calculation package  
17 that NIOSH had put together for that  
18 comparison and verification.

19 CHAIR MUNN: That whole software  
20 issue.

21 MEMBER GRIFFON: Excuse me, I  
22 think I have to go back to that last one

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1 again. I think you are showing the wrong one  
2 transferred in the database. The Rocky Flats  
3 is OCAS TIB-0014, and that should be  
4 transferred, but that's showing it open. And  
5 then the ORAU TIB is showing it transferred.  
6 Am I wrong in that? Someone should check  
7 that.

8 MR. MARSCHKE: You're right, Mark.  
9 I think the reason for the ORAU TIB-0014  
10 being transferred, it was transferred and  
11 addressed, it's the construction worker.

12 MEMBER GRIFFON: Okay, so they  
13 should both be transferred?

14 MR. MARSCHKE: Yes, it's  
15 transferred and reviewed under the review of  
16 OTIB-0052.

17 MEMBER GRIFFON: Okay.

18 CHAIR MUNN: That went out.

19 MR. MARSCHKE: So it could be  
20 addressed under OTIB-0052, but it was  
21 transferred.

22 MEMBER GRIFFON: Oh, okay. Okay.

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1 CHAIR MUNN: And TIB-0014-02 is --  
2 SC&A finds it to be incomplete because it does  
3 not address what? Because it does not address  
4 in vivo counting results. That's a Rocky  
5 Flats internal dosimetry issue.

6 MEMBER GRIFFON: Should that one  
7 show as transferred or not?

8 CHAIR MUNN: Well, it shows as  
9 open. Are we going to send it over to Rocky?

10 MEMBER GRIFFON: I don't know.

11 CHAIR MUNN: I don't think we had  
12 said before that we were likely to transfer  
13 that one because it's kind of this internal  
14 dosimetry coworker issue is one of the  
15 overlapping issues between sites.

16 MR. MARSCHKE: I think at the end  
17 of the last meeting, the October 15<sup>th</sup> meeting,  
18 we were going through the various procedures  
19 and trying to identify which ones could be  
20 next up for action on them. And I think TIB-  
21 0014 kind of fell into that box as being a TIB  
22 which we hadn't done anything on yet and which

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1 we could do something on in the near future.  
2 And I think that may be why it got listed in  
3 the action item list because right now the  
4 database is showing that we haven't received  
5 anything back from NIOSH on that.

6 CHAIR MUNN: Right.

7 MR. MARSCHKE: And --

8 CHAIR MUNN: That's why it's, you  
9 know, shown as a NIOSH action item to provide  
10 a response.

11 (Simultaneous speakers.)

12 MEMBER GRIFFON: Yes, it doesn't  
13 have to be transferred. I was just asking.

14 CHAIR MUNN: Yes, no.

15 MR. MARSCHKE: It doesn't come out  
16 of the commonality analysis.

17 CHAIR MUNN: No, but it's the kind  
18 of thing that we encounter often.

19 Okay with that, Mark?

20 MEMBER GRIFFON: Yes, that's fine.

21 CHAIR MUNN: Okay, we were looking  
22 at 10 for possible closure, and that was a

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1 carryover, too, 10-8. And we still just  
2 continue to wait for a NIOSH response, right?

3 MR. HINNEFELD: Are we still  
4 talking about OTIB-0014?

5 CHAIR MUNN: No, we've gone to 10-  
6 8.

7 MEMBER ZIEMER: 10-08

8 MR. HINNEFELD: TIB-0008? Yes.

9 MEMBER ZIEMER: That's the ATTILA.

10 CHAIR MUNN: Yes, the software  
11 thing. Note the transfer of us from Work  
12 Group TBD-6000 of OTIB-0070 finding 6, and set  
13 the priorities.

14 MEMBER ZIEMER: Well, you haven't  
15 gotten the formal letter from me on that.

16 CHAIR MUNN: No.

17 MEMBER ZIEMER: But we -- I guess  
18 the 6000 Work Group approved the transfer, so  
19 all we need is the letter. So you know it's  
20 coming. But -- and we can pull it up, I  
21 think, probably. Or, no, that wouldn't be on  
22 this thing, would it?

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1                   MR. MARSCHKE: Well, that is what  
2 I just was wondering. We have a whole bunch  
3 of issues on OTIB-0070 here. And I don't  
4 know, first of all, if they're identified here  
5 as being open and not being transferred to the  
6 TBD-6000 Work Group. So I'm confused.

7                   MEMBER ZIEMER: Well, let me pull  
8 up the matrix for that item. It may refer to  
9 this OTIB.

10                  CHAIR MUNN: Look specifically at  
11 6, that is what we were concerned with. OTIB-  
12 0070, finding 6, says use of Horizons summary  
13 survey data as a default value for operational  
14 air concentration at a thorium refining  
15 facility is inappropriate and not claimant-  
16 favorable. No, that's not OTIB, sorry, I'm  
17 giving you the wrong information.

18                  MR. HINNEFELD: What is the TBD-  
19 6000 -- you are talking about transferring to  
20 --

21                  MEMBER ZIEMER: I was going to  
22 pull up the matrix for that.

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1 CHAIR MUNN: OTIB-0070 --

2 MEMBER GRIFFON: I think that was  
3 the right one, wasn't it, Wanda, that you read  
4 out?

5 CHAIR MUNN: It's the right one on  
6 our list. But I'm remembering something that  
7 had -- that we had not established a priority  
8 for, and it was something that was necessary  
9 for us to move ahead. That's what I had.

10 MEMBER ZIEMER: Let's see, TBD,  
11 finding 6. Let me just pull it up. This is  
12 underestimate of resuspension factor. And  
13 it's -- in order to drive upper bound of  
14 default inhalation exposure due to  
15 resuspension of uranium particles on deposit  
16 surfaces, TBD uses default suspension factor.  
17 That's a common issue in a lot of sites.  
18 NIOSH response talks about the details appear  
19 in OTIB-0070. And then SC&A has a response  
20 why they recommend the use of 10 to the minus  
21 6 and so on.

22 So since this was basically a TBD

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1 -- OTIB-0070 issue because this resuspension  
2 factor issue comes up at many sites. That's  
3 why it was being transferred.

4 CHAIR MUNN: Yes, and it seems  
5 that --

6 MEMBER ZIEMER: So it's --

7 CHAIR MUNN: I think the error is  
8 in saying finding 6.

9 MEMBER ZIEMER: No, it's our  
10 finding 6 on the TBD-6000 Work Group. It's  
11 finding 6 in their matrix, and it's the  
12 general issue of the resuspension factor which  
13 shows up in OTIB-0070.

14 CHAIR MUNN: In many of the  
15 findings under 0070, not just one.

16 MEMBER ZIEMER: So the TBD-6000  
17 Work Group officially said we will transfer  
18 that to this Subcommittee since the  
19 Subcommittee's dealing with that as part of  
20 the TBD -- or the OTIB-0070 issue.

21 CHAIR MUNN: And I recall some  
22 concern about the conversation over no

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1 priority having been set that would pull this  
2 up to the top of the heap, and we were  
3 ostensibly going to --

4 MEMBER ZIEMER: Well, this is what  
5 priority is it for you folks.

6 CHAIR MUNN: For us.

7 MEMBER GRIFFON: I think it falls  
8 under OTIB-0070-10, finding number 10.

9 CHAIR MUNN: Well, we have  
10 multiple findings that impinge upon this.

11 MEMBER GRIFFON: Yes, it sort of  
12 hit on it, but 10 is just specifically--

13 CHAIR MUNN: Quite clearly.

14 So the action item here isn't  
15 NIOSH's really.

16 MR. HINNEFELD: Well, we owe  
17 responses on OTIB-0070.

18 MEMBER ZIEMER: There were  
19 responses already on the TBD -- on the TBD-  
20 6000 Work Group.

21 CHAIR MUNN: But not here.

22 MEMBER ZIEMER: And those

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1 responses would need to be transmitted to you.

2 CHAIR MUNN: They need to be  
3 transmitted to you as well.

4 MEMBER ZIEMER: Because SC&A then  
5 had another response to it. NIOSH's response  
6 is very brief. There is little specific  
7 information related to resuspension factors in  
8 the SC&A review of this TBD. They are talking  
9 about 0070. As such insufficient detail is  
10 provided to allow NIOSH to address the  
11 comment. It is suspected that the details  
12 appear in the SC&A review of OTIB-0070. And  
13 then SC&A has a fairly extensive reply which I  
14 won't read here. But I think nothing is  
15 showing up here.

16 MR. MARSCHKE: No, I have been out  
17 of the loop on this.

18 MEMBER ZIEMER: Okay, so I need to  
19 carry and submit this document to all the --  
20 to the Work Group and to you, Steve, as well.

21 MR. MARSCHKE: I have to convey to  
22 John when he gives responses to OTIB-0070 or

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1 other questions or other procedures that are  
2 in the database that he should put me on cc so  
3 I can update the database.

4 MEMBER ZIEMER: Yes. This reply  
5 goes back -- this is a November of '08 reply.

6 CHAIR MUNN: So I'm going to break  
7 this out into two different action items. One  
8 is the transfer of the Work Group TBD-6000  
9 finding 6 to us for us to set priority. And  
10 the other is the remaining OTIB-0070 responses  
11 due from NIOSH. Is that acceptable? No grief  
12 with that?

13 Now that is the end of our list of  
14 action items that we brought forward. Does  
15 anyone else have anything that they feel needs  
16 to be on our database which will magically  
17 become current and updated before our next  
18 meeting?

19 If such things occur, do please  
20 let me know. Yes?

21 MR. MARSCHKE: I have one which  
22 I'm trying to find it now.

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1                   MEMBER GRIFFON: Do we have a date  
2 set for our next meeting?

3                   CHAIR MUNN: No, that is the next  
4 thing for us to do.

5                   MEMBER GRIFFON: I got an email  
6 from Ron Buchanan who was looking at PROC-  
7 0042, and PROC-0042 has to do with Y-12. And  
8 I think Ron is indicating that in our report  
9 we had identified -- this is a copy of the  
10 thing from the report, this is a copy of the  
11 report itself. And they had identified a  
12 number of issues, and then they had identified  
13 a couple of issues with the workbook. And if  
14 you look at the database, the workbook issue  
15 that was identified with PROC-0042 did not get  
16 incorporated into the database. And Ron is  
17 saying that the workbook includes an error,  
18 and it hasn't been corrected to this point.  
19 And I guess the error manifests itself when  
20 scaling factors, negative scaling factors are  
21 utilized. It works okay when the scaling  
22 factor is zero or positive, but it creates a

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1 problem if the scaling factor is negative.

2 And I guess the question begs  
3 itself, this is really not in our issues  
4 database, and I don't think NIOSH has been  
5 actively addressing, probably because it's not  
6 in the issue database. But it is a concern  
7 that was identified in the report, and it's  
8 just to basically our oversight of when we  
9 transfer data issues from the report into the  
10 database. But this did not get incorporated.

11 And so I wanted to bring this up  
12 at the Subcommittee meeting here today, and I  
13 will forward this email from Ron to the  
14 Subcommittee when I get back to my office  
15 tomorrow. I just got this yesterday, and I  
16 don't know how we want to handle this type of  
17 thing.

18 CHAIR MUNN: I think you are on  
19 the right track. From my perspective the  
20 logical thing to do is to send it to us. We  
21 originally had, what, five findings, or were  
22 there more than that originally?

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1                   MEMBER GRIFFON:    The database is  
2 showing five findings.

3                   CHAIR MUNN:     Five findings?    It  
4 appears to me that in cases like this the only  
5 legitimate thing to do is for you to notify us  
6 that although this was identified in a report  
7 it was -- it fails to be incorporated in the  
8 list of findings, and identify what the  
9 specific issue is.  And we should incorporate  
10 it as finding number six.

11                  MR. SMITH:     This is Matt Smith  
12 with the ORAU team.

13                  CHAIR MUNN:    Sorry, we can't hear  
14 you.  Speak up.

15                  MR. SMITH:    I've got some input on  
16 that item.  On that particular workbook, we  
17 don't use a negative number.  We only allow  
18 the dose to be scaled upward.  So in other  
19 words if a person's dose after 1960 would  
20 indicate that you could potentially scale the  
21 previous years, in other words the coworker  
22 years, downward.  We don't do that; we only

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1 scale upward. But go ahead and put forth the  
2 finding and have it go through the channels  
3 and I'll respond to it. But that scaling  
4 method, it has the potential to actually scale  
5 the dose downward, but we don't do that.

6 CHAIR MUNN: Good. Probably a  
7 good idea however to record this interaction.

8 MR. SMITH: I agree. We want to  
9 get it in writing.

10 CHAIR MUNN: That's good. So the  
11 action will be for Steve to get the statement  
12 and the necessary references to me, and at our  
13 next meeting we will incorporate that as  
14 finding six. And then NIOSH can give us a  
15 direct response to close it.

16 Anything else? If not, it's  
17 calendar time.

18 You have all been privy to the  
19 previous discussions with respect to the  
20 probable need for a meeting prior to the  
21 February Board meeting, and as I had indicated  
22 earlier, about the only time that I would be

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1 available would be the last week in January.  
2 What do other Board members' calendars look  
3 like that week?

4 MR. KATZ: What are the agenda  
5 items? Can we go over that first just to make  
6 sure we will have material ready for that  
7 meeting, given the Christmas holidays and all  
8 that?

9 MEMBER ZIEMER: One was the PERs  
10 review --

11 MR. KATZ: Right.

12 MEMBER ZIEMER: -- bring that to  
13 the Board.

14 MR. KATZ: PERs review methods and  
15 selection criteria.

16 CHAIR MUNN: Which is a fairly  
17 biggie. That's likely to occupy a  
18 considerable amount of time for all of us,  
19 including at this meeting.

20 MR. KATZ: I think you made a lot  
21 of headway today on this issue.

22 MEMBER ZIEMER: Are we going to

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1 have a revised -- I guess it's going to be not  
2 a revised but an edited copy, or what will it  
3 be?

4 MR. MARSCHKE: There were a few  
5 typos that were identified and a few other  
6 issues that were identified. Kathy, are you  
7 still on the line, or Hans?

8 MS. ADAMS: Did you say Nancy or  
9 Kathy?

10 MR. KATZ: Kathy or Hans.

11 Well, if they're not on the line,  
12 I will commit them. So what we will do is we  
13 will look over our notes of the conference  
14 this morning and clean up the draft procedure  
15 and re-issue it as a draft B.

16 So there is that, the PERs review,  
17 and then the carryover --

18 MEMBER ZIEMER: It's not clear  
19 whether those things will be ready.

20 MR. HINNEFELD: It is hard to  
21 predict. We are, A, going into the holiday  
22 season. We have an aggressive reconstruction

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1 production goal, and we have aggressive goals  
2 on site research to get research out of the  
3 way so that all the sites are available for  
4 dose reconstruction -- so it is very hard for  
5 me to predict that we will have much product.

6 MR. KATZ: We have some very  
7 substantial Work Group meetings, NTS and  
8 Fernald, both of which were turned in and put  
9 to bed.

10 CHAIR MUNN: Are you speaking  
11 against a meeting?

12 MR. KATZ: No, I'm just trying to  
13 figure out if this is -- if there is so much  
14 that either -- whether there will be enough to  
15 do before the February Board meeting, or if  
16 there is only a little bit -- would we want to  
17 get it done for the February Board meeting,  
18 whether we don't do that by teleconference.  
19 If all we have really is the PER thing, then  
20 that might be accomplished by telephone  
21 without having to meet face to face.

22 CHAIR MUNN: No, I don't think so.

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1 We did also want to provide the full Board  
2 with SC&A's completed document with regard to  
3 the commonalities, but we were going to do  
4 that at the teleconference, and that will be  
5 done.

6 MR. KATZ: Yes, Fernald and NTS;  
7 28th is NTS, 29<sup>th</sup> is Fernald.

8 MS. HOWELL: Did that just happen?

9 MR. KATZ: Recently. Yes, I think  
10 -- maybe yesterday. It may have been  
11 yesterday that I sent out a notice. I copied  
12 you.

13 MS. HOWELL: I'm sure you did.

14 MEMBER ZIEMER: We have Mound  
15 early.

16 MR. KATZ: We have Mound early in  
17 the month.

18 MEMBER ZIEMER: Early in the  
19 month.

20 MR. KATZ: And we have Surrogate  
21 to show up somewhere.

22 CHAIR MUNN: And Dose

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1 Reconstruction is already on the 7<sup>th</sup>.

2 MR. KATZ: Right.

3 CHAIR MUNN: So if we were going  
4 to meet that week it would probably be the  
5 27<sup>th</sup>, if we felt that was appropriate.

6 MR. KATZ: And my question is  
7 really is this a teleconference, or is this a  
8 face to face. Because if there is not a lot  
9 of work to get done and we are just dealing  
10 with this PERs work which has largely been  
11 discussed, and you are really just sort of  
12 wrapping things up so that you can make a  
13 recommendation, it seems like that could be  
14 accomplished on a teleconference.

15 MEMBER ZIEMER: Because two of the  
16 members are going to be on the phone anyway.

17 CHAIR MUNN: You think so?

18 MEMBER ZIEMER: Well, I don't  
19 know. That's been the pattern.

20 CHAIR MUNN: With NTS, and Fernald  
21 is coming up, too.

22 (Simultaneous speakers.)

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1 CHAIR MUNN: You'd come for two  
2 days, wouldn't you, Mark?

3 MR. KATZ: Mark is already coming  
4 for two days. He's got NTS and Fernald.

5 MEMBER GRIFFON: I'm not on NTS.

6 MR. KATZ: Oh, you are not on NTS?

7 MEMBER GRIFFON: No.

8 MR. KATZ: Okay, Fernald.

9 MEMBER GRIFFON: Yes, Fernald.

10 MEMBER ZIEMER: Maybe we should  
11 sort of block off the time and make sure we  
12 are available if we need to meet. But when  
13 does it have to be --

14 CHAIR MUNN: Let's for the time  
15 being say that we are going to do it on the  
16 27<sup>th</sup>.

17 MEMBER ZIEMER: You have to  
18 register it anyway, even if it's by phone,  
19 don't you?

20 MR. KATZ: Yes, either way, no  
21 difference.

22 CHAIR MUNN: So let's go ahead and

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1 do that, and I will put together an action  
2 item list so that we can perhaps get a little  
3 better handle then on what items we really  
4 should be addressing in addition to PERS by  
5 that time.

6 It's hard to get through.

7 MR. KATZ: Okay, the 27<sup>th</sup>, okay.  
8 The 27<sup>th</sup> if people are traveling -- so Mark  
9 wouldn't be coming the 28<sup>th</sup>. It wouldn't be a  
10 problem. All righty. Okay.

11 MEMBER ZIEMER: Mark, are you on  
12 Fernald?

13 CHAIR MUNN: He is on Fernald.

14 MEMBER GRIFFON: Yes.

15 MR. KATZ: He's on Fernald, but  
16 there is no issue, okay, with NTS. All those  
17 -- none of those individuals except for you --  
18 none of those individuals are coming down on  
19 the 28<sup>th</sup>.

20 CHAIR MUNN: Okay. So we will  
21 tentatively leave it on the 27<sup>th</sup>, and  
22 hopefully by the time of the Board

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1 teleconference in December we will be able to  
2 identify whether we will have a face to face  
3 or a teleconference event.

4 All right? Is that amenable with  
5 all? Mark?

6 MEMBER GRIFFON: Sounds good, yes.

7 CHAIR MUNN: Mike?

8 MEMBER GIBSON: Yes, that's fine.

9 CHAIR MUNN: Okay, very good,  
10 please leave it on your calendar, and I will  
11 try to get this action item list to you as  
12 soon as possible if I can figure out what I've  
13 written.

14 MR. KATZ: If you could just by  
15 December 8<sup>th</sup> give some consideration -- but if  
16 the answer is you guys aren't going to be able  
17 to get to this other work, then that will just  
18 push it toward the teleconference.

19 MR. HINNEFELD: What start time  
20 should we plan for the 27<sup>th</sup>?

21 MR. KATZ: For the 27<sup>th</sup>, if it's  
22 going to be a -- we still have the time

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1 difference even if --

2 MEMBER ZIEMER: Well, 11:00  
3 o'clock if it's teleconference because that's  
4 --

5 MR. KATZ: She'll be coming that  
6 day for NTS the next day, so how will that  
7 work in terms of a teleconference?

8 CHAIR MUNN: Badly.

9 MR. KATZ: So what would be a  
10 timing that would work?

11 MEMBER ZIEMER: Late in the day?

12 MR. KATZ: The 27<sup>th</sup> may not be a  
13 good day then for a teleconference, is what  
14 I'm saying.

15 MEMBER ZIEMER: If we're doing a  
16 teleconference, we could do it earlier in the  
17 week.

18 MR. KATZ: Yes.

19 MEMBER ZIEMER: Like Tuesday.

20 CHAIR MUNN: These are the kinds  
21 of decisions that try men's souls.

22 MEMBER ZIEMER: Are you on NTS?

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1 CHAIR MUNN: Yes. 7:00 a.m.  
2 teleconference if it were at 10:00. A lot are  
3 traveling that day anyway, then it would be  
4 okay.

5 MEMBER ZIEMER: What time do you  
6 have to be at the plane typically?

7 CHAIR MUNN: Well, I have my  
8 choice of 9:00 o'clock or 11:00 o'clock. So I  
9 could make the 11:00 o'clock if we had a short  
10 teleconference. So, yes, let's say 10:00  
11 Eastern.

12 MR. KATZ: Okay, then it's not a  
13 problem.

14 CHAIR MUNN: That's right.

15 MR. KATZ: I am going to hold off  
16 on sending out a notice for this.

17 CHAIR MUNN: Right. I have a  
18 brief note to myself here that no longer makes  
19 any sense, but it was a point that I felt  
20 needed to be made, so I will have to wait  
21 until the next time we meet in order to make  
22 the point.

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1                   Any other issues?       Any other  
2                   actions?    If not, we are adjourned.    Thank  
3                   you.

4                   (Whereupon    at    4:05    p.m.    the  
5                   proceeding in the above-entitled matter was  
6                   adjourned.)

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