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PUBLIC HEALTH SERVICE  
CENTERS FOR DISEASE CONTROL AND PREVENTION  
NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH

convenes

MEETING FOUR

SUBCOMMITTEE FOR DOSE RECONSTRUCTION AND  
SITE PROFILE REVIEWS

The verbatim transcript of the Subcommittee for Dose Reconstruction and Site Profile Reviews, Meeting 4, held at the Hilton Cincinnati Netherland Plaza, 35 West Fifth Street, Cincinnati, Ohio, on March 24 and 25, 2005.

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1 the registration book there by the door.  
2 Please do that sometime yet this afternoon.  
3 I assume all of you have had a chance to review  
4 the agenda. This was distributed several weeks  
5 ago by e-mail. And you're aware that the focal  
6 points of our sessions deal with two primary  
7 reports. One the review of the first 20 dose  
8 reconstructions, a document that we're hoping  
9 to wrap up, and then the Bethlehem Steel site  
10 profile review, as well. So that will be --  
11 those will be our main focus for the next  
12 couple of days. There will be some other  
13 pieces of information that come up from time to  
14 time, but we'll follow the agenda as close as  
15 we can.

16 I've indicated to some folks that if we need  
17 to, in terms of timing, if it looks like it's  
18 going to take us a little longer, we would  
19 probably stretch this afternoon session a  
20 little longer in order to allow people who have  
21 made travel arrangements for tomorrow afternoon  
22 to be able to keep those. So if it looks by  
23 late this afternoon that we're going to need  
24 more time, then we'll probably stretch the  
25 afternoon a little beyond what the stated

1           adjourning time or recessing time is.  
2           Let me turn the mike over to Dr. Wade for a  
3           moment for some introductory remarks, as well.  
4           **DR. WADE:** Thank you, Paul. Let me thank you  
5           each personally for making yourself available.  
6           I know that it's difficult, and we do  
7           appreciate your coming together. I bring you  
8           welcome from the secretary and from John  
9           Howard, the NIOSH Director, and again, I bring  
10          their thanks to add to mine.  
11          As Paul mentioned, really today we're going to  
12          put our attention to the issue of individual  
13          dose reconstruction reviews. And I'd just  
14          like, in my role as Designated Federal  
15          Official, to pose some questions that I think  
16          need to be answered by the full Board based  
17          upon input from this subcommittee.  
18          If you remember, when last we met in St. Louis  
19          we were just recently in receipt of the SC&A  
20          report that reviewed the first 20 dose  
21          reconstructions. There was also a discussion  
22          there about what kind of a report card or  
23          scorecard the Board would use in reporting out  
24          its summary findings. I think that issue of  
25          scorecard needs to be closed on or the issues

1           discussed at the last Board meeting finalized.  
2           And then I think that it's appropriate that  
3           that scorecard be used to develop this  
4           subcommittee's thoughts on those first 20 dose  
5           reconstructions. So it would be nice for this  
6           group to come to closure on deciding upon a  
7           report card and then filling out that report  
8           card.

9           I think it's also important that this group  
10          start to discuss and then bring to the full  
11          Board how it would intend to see the full Board  
12          close on these issues. Would this be a letter  
13          to the secretary? Would this be a motion on  
14          the record? How will the Board conclude its  
15          work on each of these -- each batch of these  
16          dose reconstructions? I think we need to talk  
17          about that in the relaxed environment of this  
18          subcommittee meeting and bring those thoughts  
19          to the Board so the Board can act upon those  
20          thoughts at the next meeting.

21          I think then it would be well for us all -- and  
22          SC&A is with us -- to pause and discuss lessons  
23          learned from the process of the first 20 so we  
24          can bring those to subsequent batches of  
25          reviews. I think the Board has laid out a very

1 healthy process, but I assume it can always get  
2 better by iteratively evaluating its  
3 effectiveness.

4 And then the last issue I'd like you to think  
5 about is the overall scope of this dose  
6 reconstruction review task. As you know, the  
7 depth of these reviews has grown, as has  
8 possibly the cost of them. And I'll need a  
9 sense from the Board -- starting, I think, with  
10 this subcommittee -- as to whether the Board  
11 still holds to its original scope of what it  
12 would like to see reviewed. And then if that's  
13 the case, I would need to set out to see that  
14 the resources were available to do that.

15 I'm not in any way trying to limit the scope of  
16 the review if this subcommittee and the Board  
17 thinks we need to go to that two, two and a  
18 half percent measure we used, then that's what  
19 we should do. We would need to start to  
20 prepare information as to the cost of that in  
21 light of what we've learned. And I would need  
22 to go out and get the money to see that we can  
23 do that.

24 So I think all of those issues sort of fall  
25 under the scope of what's to be discussed

1           today. I think it's a fairly full plate today,  
2           and wish you well in your deliberations.

3           Thank you, Paul.

4           **DR. ZIEMER:** Thank you very much, Lew, and let  
5           me ask if any of the subcommittee members have  
6           any other questions relating to agenda or scope  
7           of work before us. Mark?

8           **MR. GRIFFON:** I think there is -- and I've sent  
9           e-mails or talked to you about this. I can't  
10          remember now, but I think there's other things  
11          that we may want to cover prior to the next  
12          full Board meeting, and they're not on the  
13          agenda here today. But I just think we should  
14          sort of keep them on our radar.

15          **DR. ZIEMER:** Yeah, and Mark, I think it's in  
16          order for you to go ahead and identify the  
17          items that you were thinking about just so we  
18          can have those in mind as we proceed, as well.

19          **MR. GRIFFON:** Yeah, one certainly is the  
20          procedures review. SCA has provided us with  
21          their first cut of a procedures review, and I  
22          think that we should go through it -- you know,  
23          review it as a subcommittee and bring our  
24          recommendations back to the full Board.

25          **DR. ZIEMER:** And the discussion at this point

1 would be on actually how are we going to do  
2 that rather than actually doing it.

3 **MR. GRIFFON:** Right.

4 **DR. ZIEMER:** How and when perhaps. Go ahead.

5 **MR. GRIFFON:** Second is the Mallinckrodt,  
6 Revision 1, I guess, site profile. And at this  
7 point I don't think that SC&A has finished  
8 their review of Rev. 1, but I think that we  
9 committed to having another -- in our one vote  
10 we talked about resolving the issue on the  
11 petition at the next Board meeting. So I don't  
12 want to let us slide on that one. So I think  
13 somehow we've got to get Rev. 1 in -- in our  
14 review, before -- prior to that next Board  
15 meeting which is coming right up pretty  
16 quickly.

17 And finally, I think we need to move along a  
18 task order for SEC petition review, and we  
19 talked about that at the last meeting. I think  
20 -- at this point you've sort of rolled some of  
21 the work that's being done on that under the  
22 site profile review, which I think was  
23 appropriate. But I think we still may need a  
24 task, a specific task for that. I've actually  
25 taken the liberty of drafting something off the

1 original task order contract -- which I have  
2 with me so I can provide that to discuss these.

3 **DR. WADE:** I agree that I think it would be  
4 most appropriate for the subcommittee to  
5 discuss those issues. I think we are working  
6 to try and get a phone meeting of the full  
7 Board before our next sit-down meeting, at  
8 which time hopefully the full Board can close  
9 on some of those issues. So I think we are  
10 trying, Mark, to live true to your desire, but  
11 I think any intellectual lifting we could do  
12 here to work that process along would be a good  
13 thing.

14 **DR. ZIEMER:** That's correct, and I think Cori  
15 has already made contact with all of you to ask  
16 -- I think there were suggested dates. I don't  
17 recall them right now, and it's not critical at  
18 this moment, but we're trying to find a time  
19 when we can get a telephone meeting of the  
20 Board prior to our upcoming meeting next month.  
21 And that would be a meeting where we discuss  
22 process. Not actually discuss, for example,  
23 the Mallinckrodt profile, but the process of  
24 coming to closure on it. And likewise some of  
25 these others, and we may be able to take an

1           early look and be prepared to make a  
2           recommendation to the full Board on process on  
3           some of these.

4           Thank you, Mark.

5           **DR. WADE:** One of the functions listed in the  
6           charter for this group is to clarify the Board  
7           intent regarding technical scope of tasks  
8           assigned to the audit contractor. So I do  
9           think, even under the previously agreed-upon  
10          functions of this subcommittee, we're well  
11          within our rights to talk about the issues that  
12          you mentioned.

13          It also -- to add to your list, Mark, I think  
14          it would not be inappropriate for us to discuss  
15          some of the issues that might arise concerning  
16          the SC&A review of the Iowa TBD that you're  
17          aware of. And again, setting the stage for a  
18          more formal discussion by the full Board in its  
19          telephone call, preparing all of us for having  
20          all of the information we think, and all of the  
21          questions we think need to be raised, raised so  
22          when we meet next as a full Board together in  
23          Iowa, we're prepared to do our business.

24          **DR. ZIEMER:** Then for the record -- I can't  
25          remember, there's been so many e-mails and so

1 on back and forth the past month, but I think  
2 you all received from NIOSH the new information  
3 on Iowa relative to the issue of the  
4 confidentiality of records -- well, a  
5 classification of records, and the fact that  
6 there appears to be a time period now where the  
7 classification issue is not the issue any  
8 longer, and this raises some questions relative  
9 to our previous recommendation.

10 Since there is this new Iowa site profile, and  
11 we were in the process of preparing the  
12 recommendation to the secretary, I felt it was  
13 very important that we not only look at this  
14 revised -- it's a technical basis document,  
15 actually a TBD -- that we not only look at  
16 that, but we get some assistance from our  
17 contractor.

18 So I did make contact with John Mauro. Lew and  
19 I both talked with John about whether or not  
20 they could marshal their resources to take a  
21 look at that and give us some early feedback on  
22 that revision so that we would have that in  
23 hand. This may be particularly important  
24 because we may have our next meeting actually  
25 in Iowa, and we want to certainly be prepared

1 for that situation.

2 **DR. WADE:** And I'd like to go on record as  
3 thanking SC&A for their very timely response.  
4 I think the Board is in receipt of at least the  
5 first comments by SC&A in review of the Iowa  
6 TBD. I think it was sent to you maybe  
7 yesterday or the day before.

8 **DR. ZIEMER:** And I'm going to instruct everyone  
9 to turn off their cell phones, and I thought I  
10 had done that. I now have turned off my cell  
11 phone. It didn't get through the whole "Ode to  
12 Joy," which is what it was playing. It seems  
13 appropriate, doesn't it?  
14 Other comments in general as we proceed?

15 (No responses)

16 **REVIEW AND APPROVAL OF MEETING 3 MINUTES**

17 **DR. ZIEMER:** The first item on our agenda is to  
18 take action on the minutes of the last  
19 subcommittee meeting. That meeting was held  
20 February 7th; that was in St. Louis. I believe  
21 you have at least in your folder a copy of  
22 those, but perhaps have not had a chance to  
23 read them yet. Do you wish to defer action --  
24 or they're actually not very long.  
25 How many have not had a chance to read those

1 minutes?

2 (No responses)

3 **DR. ZIEMER:** I'm going to def-- just -- if  
4 there's no objection, we'll defer action until  
5 tomorrow on these minutes so Board members have  
6 a chance to read them. I have the advantage of  
7 having them in advance.

8 **SCORING METHODOLOGY FOR DOSE RECONSTRUCTION**

9 **REVIEWS**

10 Okay, let's proceed now to the issue of the  
11 scorecard or scoring methodology for the site -  
12 - not site, the dose reconstruction reviews.  
13 As a backdrop we have the report of the first  
14 20 reviews, and that report has gone through a  
15 couple of iterations over time. And you also  
16 have, I believe, in your folder a -- yes, a  
17 page that came out of our last Board meeting  
18 called Methodology for Categorizing and Ranking  
19 Dose Reconstruction Case Findings -- or Case  
20 Review Findings. Do you all have that? It  
21 should be in your folder.

22 I assume all of these handouts are available to  
23 those of you here. If you don't have them, let  
24 Cori know.

25 And then there also is a packet which gives the

1           -- wait, I'm looking to see. Does this packet  
2 go with this document?

3           **MR. GRIFFON:** Yeah.

4           **DR. ZIEMER:** Yes. Okay.

5           **DR. WADE:** This is done by the subcommittee.

6           **DR. ZIEMER:** Right, this is a matrix that shows  
7 the finding number -- which is SC&A's finding  
8 number, I believe -- a brief description of the  
9 finding, brief description of NIOSH's response,  
10 a ranking -- I believe that was an importance  
11 ranking -- a category; and the categories that  
12 we selected were technical -- well, they're  
13 shown on this sheet, I believe -- technical,  
14 procedural, quality control, and regulatory.  
15 So those are indicated. And let's see, section  
16 -- section is -- remind me, is that  
17 external/internal dose?

18           **MR. GRIFFON:** Yeah, primarily external.

19           **DR. ZIEMER:** Yeah, right. There were some  
20 other things there, as well --

21           **MR. GRIFFON:** And data collection.

22           **DR. ZIEMER:** -- data collection issues, right.  
23 And then is this just being passed out now?

24           **DR. WADE:** The subcommittee has it now.

25           **DR. ZIEMER:** Just as a reminder, we asked Cori

1 to xerox the checklist that came out of the  
2 SC&A document. Remember that they had  
3 developed what they called a Case Review  
4 Checklist, and they have the -- well, it's a  
5 somewhat similar way of categorizing things.  
6 There are some differences here that -- they  
7 have the categorization of significance -- low,  
8 medium, high -- and that sort of thing.

9 **DR. WADE:** And if you look at the footnotes  
10 that speak to their low, medium, high, it sort  
11 of creates a discussion in terms of the  
12 subcommittee's --

13 **DR. ZIEMER:** Right.

14 **DR. WADE:** -- work.

15 **MR. GRIFFON:** Which -- yeah, and their  
16 footnotes are actually -- they sort of go along  
17 with -- if you look at the methodology document  
18 where I have my ranking discussion I bring up  
19 in there, and ranking is similar to their  
20 (unintelligible).

21 **DR. ZIEMER:** It's a similar concept, right.

22 **MR. GRIFFON:** Yeah.

23 **DR. ZIEMER:** Right. Now -- and I don't think  
24 it's a matter of us saying we're going to  
25 necessarily select one or the other of these.

1 We may want to use the good features of each.  
2 But the issue before us is, number one, what  
3 should the scorecard look like. And then we  
4 have to apply it specifically to these first 20  
5 cases and see -- and make a recommendation to  
6 the full Board on how to wrap up those first 20  
7 cases.

8 Now let me ask, does anyone need any other  
9 documentation at the moment? Do you have  
10 everything you need to begin discussing?

11 (No responses)

12 **MR. GRIFFON:** I think we're at a  
13 (unintelligible).

14 **DR. ZIEMER:** I think it would be useful to talk  
15 a little bit about how we do the array. Do you  
16 have any preferences for how this would be laid  
17 out schematically?

18 **MR. GRIFFON:** I mean I was just going to say,  
19 just to pick up on that conversation that we  
20 had in St. Louis on this, is that I'm not  
21 necessarily sure that both of these wouldn't be  
22 appropriate, that -- to have our contractor  
23 track these things as we go on with more cases.  
24 We're up to around 60 now. It gives us a good  
25 perspective on the tracking part of this and

1 trends, looking at trends.

2 This -- what we came up with with the working  
3 group was more -- rather than calling it a  
4 scorecard, although it has rankings on it, I  
5 was envisioning it as summary report of the  
6 first batch of cases, a summary report of the  
7 second batch of cases. So that you can quickly  
8 get a sense of the types of findings and a  
9 short discussion instead of reading the  
10 lengthier document to get a sense of what kinds  
11 of findings we had. So it's more of a summary  
12 report that has some ranking stuff in it, but I  
13 think they can work --

14 **DR. ZIEMER:** Well, it's certainly a good point,  
15 and the contractor sheet actually goes right  
16 down the list from their original proposal,  
17 which is -- they had indicated which items that  
18 they would review and we in fact asked them to  
19 make their findings parallel to their original  
20 proposal, which is -- and they were responsive  
21 to that and that's what this reflects, so that  
22 each item here reflects one to one, I think,  
23 pretty much -- John, maybe you can speak to  
24 that, but I believe that this is every item  
25 that's in the original proposal that said --

1           you said you would look at these items, and  
2           here they are.

3           **DR. MAURO:** Yes.

4           **DR. ZIEMER:** And so there is the advantage of,  
5           from their point of view, in each case being  
6           able to itemize all of them -- all of the items  
7           that they look at.

8           **MR. GRIFFON:** The only thing I said that --  
9           that going forward, I really see a benefit to  
10          having both systems, and -- but if going  
11          forward -- it would be very useful -- at least  
12          from my standpoint, I think it would be useful  
13          to be able to say, you know, 1.1 on my table,  
14          can I tag that to the checkmark under C.2.1 in  
15          their matrix, you know. So there's a link --  
16          somehow we create a link so that we know which  
17          finding on the summary report goes with which  
18          finding in their database. You know, that  
19          would be beneficial so we can have -- you know,  
20          so that it tracks across systems.

21          **DR. ZIEMER:** Well, Mark, we don't cover every  
22          one of theirs here, I don't believe. Right?  
23          Is there a straight linkage on every one of the  
24          -- I don't believe there is on every one of  
25          these.

1           **MR. GRIFFON:** There's not a straight linkage on  
2           -- what do you mean, on questions or --

3           **DR. ZIEMER:** Well, no, we don't have an item  
4           here for every one of the SC&A items, do we?  
5           In other words, if everyone -- if we covered  
6           everyone, we could just use the same number.

7           **MR. GRIFFON:** Yeah, this summary report I was  
8           hoping would have all the findings, and then if  
9           they track their findings -- they create one of  
10          these summary sheets for each case they look  
11          at, and each case may have several checkmarks  
12          in it, several boxes checked off as a yes or --  
13          and then a ranking with that box. That's my  
14          understanding. And I was saying that it would  
15          be nice to have -- like for case one, in my  
16          summary report here there is 1.5.  
17          Now this -- I don't think this is all of them,  
18          as we discussed at the last meeting. But say  
19          it was all of them, for the sake of argument,  
20          and there's five findings on here, I'd like  
21          that to line up with five spots, ideally. Or  
22          maybe there's two checkmarks for one finding,  
23          you know, but it would still be linked so that  
24          -- you know what I'm saying? So that there's a  
25          sense of -- so that you have a descriptive part

1 in the summary report that goes along with the  
2 checkmark in this database, because this  
3 database doesn't describe to me -- you know, it  
4 says was the appropriate procedure... Well, it  
5 does say procedure, but in the descriptive  
6 section we might say procedure TIB 0003 or  
7 whatever was not adequately applied. And if we  
8 see TIB 3 several times, we might recommend to  
9 NIOSH that they revisit that procedure.

10 **DR. ZIEMER:** Yeah.

11 **MR. GRIFFON:** If you just have a checkmark  
12 here, you don't capture that.

13 **DR. ZIEMER:** Right.

14 **MR. GRIFFON:** So I think there's useful --  
15 utility in having it linked is all I'm saying.

16 **DR. ZIEMER:** Yeah. But my question was, for  
17 example -- just pick out any one of these at  
18 random, item 1.5 -- is that unique? The first  
19 page of your matrix, item 1.5, is that item  
20 unique to a corresponding item on the SC&A Case  
21 Review Checklist?

22 **MR. GRIFFON:** And maybe Hans can help me.

23 **DR. BEHLING:** The way this -- Hans Behling,  
24 SC&A -- the way this evolved, it was that when  
25 we submitted the first draft of our first 20

1 cases to both the Board and to NIOSH, NIOSH  
2 responded with a list of things that they felt  
3 they disagreed with. And the numerical  
4 sequence that you see that Mark identified is  
5 in fact their sequencing of issues that they  
6 disagreed with.

7 Which, first of all, answers two questions.  
8 Dr. Ziemer's asked are all the issues that we  
9 raised there? No, they are not. There are  
10 certain issues that NIOSH didn't disagree with  
11 us up front; therefore, they were never entered  
12 onto that disc of issues that they wanted to  
13 contest.

14 And the numbering system that you see there,  
15 the first number is usually a reference to the  
16 particular case. So you'll see case one  
17 through 20, and there may be cases for which  
18 there were no comments, and so you will skip a  
19 whole number. And so 1.1 will be the first  
20 issue with which they took exception to, and it  
21 does not coincide with our numbering system.

22 But they are in fact all contained in our  
23 system, although there will be considerably  
24 more issues that we raised than were identified  
25 by NIOSH.

1           **DR. ZIEMER:** Thank you.

2           **DR. MAURO:** Excuse me, I -- there's one more --

3           **DR. ZIEMER:** Yeah, John, go ahead.

4           **DR. MAURO:** -- I think it's important to  
5 consider.

6           The form, this form, was written primarily for  
7 DOE cases where we have data on bioassay,  
8 urinalysis, where in effect a dose  
9 reconstruction followed the conventional,  
10 traditional protocols as laid out, for example,  
11 in OCAS-1 and 2, the two dose reconstruction  
12 guidance.

13           This form is not used for the cases, or that  
14 form, where we do our review for atomic weapons  
15 employees. See, so it's a whole different  
16 class of problems. We don't have bioassay  
17 data. As a result, the review -- for example,  
18 in one through five -- Mark, for example, in  
19 your write-up I notice you've numbered them  
20 what, one -- 1.1?

21           **MR. GRIFFON:** Uh-huh.

22           **DR. MAURO:** The first five turned out to be AWE  
23 cases, and each of those deal more with the  
24 fundamental models that were employed, and they  
25 don't track -- and there -- we do not have a

1 cover sheet like this in front of any case that  
2 was an AWE case because it's not trackable this  
3 way.

4 **MR. GRIFFON:** I noticed that.

5 **DR. MAURO:** So it's important to keep in mind  
6 that, yes, I think we eventually can link the  
7 scoring here and each of the items that you  
8 identify here except for AWEs because each one  
9 of those are very unique in the way in which  
10 they come at the problem, the way they modeled  
11 it. It doesn't go back to OCAS-1 and 2, and it  
12 does not really map back in a way that we --  
13 that's --

14 **DR. ZIEMER:** Gotcha.

15 **DR. MAURO:** -- that's so clean -- so cleanly  
16 trackable.

17 **DR. ZIEMER:** Thank you. Hans, do you want to  
18 add to that?

19 **DR. BEHLING:** Yeah, there's more -- there's --  
20 with another small twist to it. In fact, just  
21 yesterday I was able to review a dose  
22 reconstruction that involved the Iowa facility,  
23 and that is obviously one that we want to score  
24 according to this plan because we can. The TBD  
25 for Iowa pretty much tracks some of the

1 procedural guidance given in the non-TBD  
2 guidance documents. And so therefore we can  
3 track that pretty much using this scorecard.  
4 So some AWE, like Bethlehem Steel, you would  
5 have virtually this whole checklist with NAs  
6 because there were simply no monitoring data,  
7 there was simply no bioassay data. There was -  
8 - certainly many of the issues that we want to  
9 look at simply weren't applicable here. But  
10 there will be AWEs for which we feel we can use  
11 them. So to go backwards again from what John  
12 said, not all AWEs are created equal. And so  
13 we will have a chance to use them if we  
14 consider it appropriate. And Iowa will in fact  
15 be considered appropriate.

16 **DR. ZIEMER:** Okay, thank you.

17 **MR. GRIFFON:** And that raises another question  
18 that I had which was that -- might we'd not  
19 want to -- I had some editorial comments on  
20 this matrix that might -- you know, could it be  
21 edited to make it globally acceptable? I'm not  
22 sure, you know, but might well be considered be  
23 considered, yeah.

24 **DR. ZIEMER:** Well, let's -- we'll raise that in  
25 a moment.

1           Let me ask this question now. It just occurs  
2           to me that basically this matrix only addresses  
3           items that -- where there was some kind of  
4           initial disagreement, which means we're not  
5           tracking items where basically both groups  
6           agreed as to how the reconstruction was done.  
7           My question is --

8           **MR. GRIFFON:** Yeah.

9           **DR. ZIEMER:** Huh?

10          **MR. GRIFFON:** That wasn't necessarily the  
11          intent. That was more --

12          **DR. ZIEMER:** That's how it came out.

13          **MR. GRIFFON:** -- just what I had to work with  
14          in the working group.

15          **DR. ZIEMER:** But the question I'm raising is do  
16          we need to in fact have such a listing of those  
17          issues that were what the finding was. The  
18          finding in such a case might be that we agreed  
19          that NIOSH -- or with NIOSH's approach to this.  
20          Don't we want to have that tracked, as well?

21          **MR. GRIFFON:** Yeah.

22          **DR. ZIEMER:** So there would be --

23          **MR. GRIFFON:** And I think there are several --

24          **DR. ZIEMER:** -- a parallel document or part of  
25          this document would be such a listing.

1           **MR. GRIFFON:** Right, my intent was to add to  
2 this in there, as Hans said, and I've gone  
3 through the foreword part a little more now and  
4 tried to identify them. The difficulty I have,  
5 obviously, is that they're not -- in that  
6 document they're not numbered like they were  
7 when we had the meeting with NIOSH because  
8 NIOSH numbered those --

9           **DR. ZIEMER:** Right, because they were specific  
10 issues, and they had to keep track of them.

11           **MR. GRIFFON:** So I guess we as a subcommittee  
12 have to go back and try to separate -- from the  
13 text of the 20 cases -- findings, and I think  
14 findings -- even when NIOSH said yes, we're in  
15 agreement -- well, certainly it was still a  
16 finding by SC&A. So I think we need to  
17 incorporate that in there.

18           **DR. ZIEMER:** Right, where -- there's two of  
19 them then. One is where SC&A says we agree  
20 with how NIOSH did this.

21           **MR. GRIFFON:** Right.

22           **DR. ZIEMER:** One is where they say we believe  
23 NIOSH did this incorrectly or should have done  
24 this, and NIOSH says oh, yes, I think you're  
25 right, and we will make that change. That also

1 is not captured here then.

2 **MR. GRIFFON:** That's right.

3 **DR. ZIEMER:** So if we want the full story, we  
4 need those other pieces to show up here for  
5 future tracking purposes.

6 Okay, Roy.

7 **DR. DEHART:** My question, having read this  
8 document, is at what point do we prepare a  
9 scorecard? Because more than half of these  
10 issues are yet to be resolved.

11 **MR. GRIFFON:** I know, right.

12 **DR. DEHART:** And the final scorecard needs to  
13 have resolution, either by the two parties that  
14 are discussing it or by the Board.

15 **MR. GRIFFON:** Yeah, I guess that's why I was  
16 reluctant to call it scorecard is I -- I feel  
17 like this is a way to track -- even if they  
18 were only preliminary findings, even if after  
19 the comment resolution process, NIOSH and SC&A  
20 may have agreed and the finding was dropped, I  
21 think that's important just to, you know, lay  
22 that out. You know, that's what happened to  
23 it. That's how it got disposed of.

24 And -- but on the other hand we've got, as Roy  
25 said, a number of these that are still hanging

1 up in the air. I think we need to make sure we  
2 don't just let them -- we don't forget about  
3 them, so that's why I was calling it a summary  
4 report more than a scorecard. And I think --  
5 yeah, I'm not sure how, but I don't think we  
6 rank them until we have a resolution there,  
7 final resolution.

8 **DR. ZIEMER:** It's the initial report that kicks  
9 it all off. You have a whole group of  
10 findings, and those are going to be tracked.  
11 And I'm envisioning now what we're talking  
12 about, because the end product has taken care  
13 of -- a number of issues go away. But just  
14 because they go away doesn't mean that they  
15 shouldn't -- we shouldn't be cognizant of them,  
16 and how they were handled.  
17 And the final wrap-up would be, I think, a kind  
18 of summary of how all the issues -- some issues  
19 were resolved in this way, some were resolved  
20 in this way, some may not be resolved between  
21 our contractor and NIOSH. I mean we're not  
22 going to force resolution where there's valid  
23 scientific disagreement on an approach. I  
24 think it sits there and NIOSH ultimately says  
25 yes, we understand your point, but this is how

1 we're handling it. And the Board may say  
2 that's fine, or we may weigh in one way or the  
3 other. But I'm trying to get a picture of what  
4 a final report would look like, and it seems to  
5 me it could have all of those kinds of pieces  
6 in it.

7 **DR. WADE:** Right. I mean I think this is a  
8 very important discussion, but you've basically  
9 asked the contractor to offer its opinion on  
10 NIOSH's work, and that opinion stands at a  
11 certain moment in time. And I think that  
12 opinion needs to be captured, owned by the  
13 Board and reported out on.

14 Then there's a very positive step of improving  
15 the process based upon that report. And I  
16 think that should happen -- I think the Board  
17 should track that, but I think there is a  
18 moment in time when the Board needs to say here  
19 is our summary view of NIOSH's performance on  
20 these 20 dose reconstructions.

21 Now again, whether you're in a position to do  
22 that now or whether you want another iteration  
23 is for you to decide. But right now, as I  
24 understand it, there is no resolution activity  
25 going on. The material sits before you at this

1 moment in time.

2 **MR. GRIFFON:** Yeah, I think also I -- just to  
3 reflect back on what we wanted this whole thing  
4 to be and, you know, we originally said that if  
5 we had our -- you know, in an ideal world --  
6 maybe not so ideal world because the other  
7 program did it after the fact. But if you had  
8 all the cases done and we were going to sample  
9 2.5 percent and do the -- you know, audit them  
10 all at once and get a sense of, you know, a  
11 random sample -- maybe stratified, however --  
12 but get a good sense across the board of what -  
13 -  
14 What worries me here I think is, you know,  
15 we've got 20 cases. We know there were some  
16 conditionals on these cases that were -- they  
17 were, you know, probably low-hanging fruit to  
18 start with, so there were certain conditionals.  
19 On the other hand, I think we need to give a  
20 progress report, and possibly part of that  
21 progress report is recommendations. So far  
22 we've seen some things already that we think  
23 NIOSH should modify or, you know, and it's  
24 important to get -- that's part of the reason  
25 for doing it while they're still doing other

1 DRs. It's to improve the program like you said  
2 Lew, so...

3 **DR. WADE:** Right. Just for clarity purpose,  
4 John, in your work you have filled out or you  
5 have provided an evaluation of each of the 20,  
6 and then you've provided a summary of those 20.

7 **DR. MAURO:** Yes.

8 **DR. WADE:** And that exists as -- that is your  
9 evaluation.

10 **DR. MAURO:** Right, the score -- the so-called  
11 scorecard that is in front of the report, the  
12 large, three-volume report. In the front of  
13 every one of the cases there is this form  
14 filled out except for AWE ones. Okay? And  
15 this is our attempt to try to come up with a  
16 scorecard regarding the performance of that  
17 individual case, the way it stacks up against  
18 these various criterion, some of them. And  
19 this has been formed in a way where it goes  
20 into our database, and it can be collapsed  
21 because each of these individual ones are case-  
22 specific, and therefore, are under the Privacy  
23 Act. However, when we collapse them -- because  
24 it can be rolled up -- and say okay, these 20  
25 can be collapsed, and then the next 20 can be

1 collapsed into that. So in the end, when we're  
2 through, there are only supposed to be two. In  
3 theory we could have a single page which would  
4 be a scorecard on how well did they do  
5 regarding missed photon dose. How well did  
6 they do regarding internal dosimetry issues,  
7 and the number times we found a different  
8 category of problem and whether that problem  
9 was minor or substantial.

10 **DR. WADE:** But at this moment in time you could  
11 do that for the first 20?

12 **DR. MAURO:** We have already.

13 **DR. BEHLING:** In the executive summary you will  
14 see that same scorecard which will represent  
15 the summation of the first 15 cases. In the  
16 executive summary of the report we have already  
17 done that.

18 **DR. WADE:** So it seems to me the task before  
19 the Board is two-fold. One is to issue its  
20 view now of how NIOSH did on the first 20,  
21 armed with the contractor's report. And then  
22 to turn its attention to how to make the  
23 process better by making recommendations to  
24 NIOSH on specific issues or things it needs to  
25 concentrate on. And so -- I mean I think both

1 of those tasks are before the Board now.

2 **DR. BEHLING:** May I make a comment on that very  
3 issue of how do we go forward? The problem is,  
4 if we identify -- let's say in the first 20  
5 cases there were problems as you see in front  
6 of you, or deficiencies, issues that we  
7 identify. And of course one could look at  
8 those and sort of say well, how do we fix that?  
9 We see people not following the procedure or  
10 the procedure may have had an error, or certain  
11 other issues.

12 However, when I realize -- for instance, now  
13 I'm working on the second 18 set. Those cases  
14 were done before this first set of 20 was even  
15 done, and they may have even been performed  
16 prior to the first 20 dose reconstructions. So  
17 the question is how does one go about changing  
18 something that may have already, in time and  
19 space, preceded the ones that we have evaluated  
20 for which we will make recommendations for  
21 change. So that's the difficulty.

22 **DR. WADE:** True. And there's no answer  
23 obviously to that conundrum other than...

24 **DR. MAURO:** One more observation that I think  
25 is very -- I think, Mark, what you've done is

1 part of a very important part of the process --  
2 that -- what you've done is say okay -- and I  
3 think it's very different than what we did with  
4 our scorecard, both of which have an important  
5 role to play, but different role. This  
6 basically is a tool that will help to capture  
7 the degree to which we're converging on  
8 resolution of issues that we -- there were some  
9 differences when we began. And through a  
10 process, we're converging on resolution. Quite  
11 frankly, right now when you read through your  
12 mock-up there is a process at work where these  
13 issues are being resolved.  
14 Now -- however -- and so this is a tool for  
15 closure (indicating). This is not a tool for  
16 closure (indicating). This is something  
17 completely different. This is a way of  
18 determining at the end of the process of the  
19 62, when we're all done, we're going to be able  
20 to make some global statements regarding what  
21 we found out in our reviews; where there might  
22 have been some I guess trends, recurring themes  
23 which would provide insight into areas where  
24 perhaps some improvement -- areas of  
25 improvement.

1           So it's a different -- it's a different product  
2           and serves a different role on the program.  
3           Certainly an effort could be made to try to map  
4           one to the other, to the degree it can be done.  
5           My guess is it can be done. Whether or not  
6           it's important that it be done, that's another  
7           question. That is, I think that this is really  
8           a tool for closure (indicating). That is where  
9           are we and what's still outstanding?

10          This is a different tool (indicating). This is  
11          almost like an audit report that says when  
12          we're done with the 62, what did we learn. I  
13          don't know if that helps any.

14          **DR. ZIEMER:** All right. John, let me ask you  
15          this then. From SC&A's point of view this  
16          basically gets completed after you've gone  
17          through at least one iteration, or two?

18          **DR. MAURO:** As many as you'd like.

19          **DR. ZIEMER:** Or as many, but at some point the  
20          process has to come to a halt --

21          **DR. MAURO:** Yes.

22          **DR. ZIEMER:** -- and this gets filled out.  
23          Actually in each case you've gotten feedback,  
24          and you come with a report and this is filled  
25          out. Now obviously we can go back and say

1 well, go through that process again and maybe  
2 this would change a little bit. But what we  
3 have right now is a document which is based on  
4 some resolutions having occurred, and they no  
5 longer then show up as issues here.

6 **DR. MAURO:** In fact, this particular form  
7 reflects the expanded review cycle. That is  
8 the ones that are completed in the report you  
9 have before you.

10 **DR. ZIEMER:** Right.

11 **DR. MAURO:** In fact if you read through the 20  
12 cases there's a lot of dialogue related to the  
13 expanded review -- where we achieved closure,  
14 where we agree, where we changed our position,  
15 where NIOSH has changed its position. These  
16 forms, as filled out in front of each case and  
17 as rolled up for the full set of the first 20,  
18 reflect as best we can that expanded review  
19 process. So this represents where we are right  
20 now in time.

21 **DR. ZIEMER:** Right.

22 **DR. DEHART:** It would seem to me that we  
23 already have a report, and that's the report of  
24 the contractor.

25 **DR. ZIEMER:** Uh-huh.

1           **DR. DEHART:** That could be summarized for each  
2 of the cases and not attempt to find fault or  
3 anything else with NIOSH or with the  
4 contractor. But that's the report we've been  
5 given. We would then follow on that report  
6 with another area that would address the  
7 recommendations, et cetera, and tell the  
8 process that is now on -- been going on between  
9 the contractor and NIOSH to resolve as much as  
10 they can. And that would be the report for the  
11 first 20 cases.

12           **DR. ZIEMER:** Right, and that's already occurred  
13 in the first 20 in terms of dialogue between  
14 the contractor and NIOSH -- or NIOSH's  
15 contractor, as the case may be -- and has  
16 become a kind of template for the future where  
17 you expect that dialogue to occur, the factual  
18 accuracy checks and so on. And then, as you  
19 say, at some point we have the report, which  
20 will include the individual and the summary  
21 things here.

22           This then would become the document that helps  
23 us come to some kind of closure, I think, on  
24 that, that -- where we could go through each  
25 case, or we could roll them up.

1           **MR. GRIFFON:** Yeah, I think, again, if I -- for  
2           the next set I would propose the -- I mean I  
3           obviously like the matrix. I sort of came up  
4           with the idea, but if -- you know, to go --  
5           going forward with it, I would say that I want  
6           to have all the findings in there. And I'm not  
7           exactly sure of the answer to John's question,  
8           but I have a feeling it's going to be important  
9           to be able to tag those to his matrix. So I  
10          don't know -- I think it would be worth doing  
11          just to have it there in case we'd want to look  
12          back at it later.

13          For one thing, I can see -- in the resolution  
14          process -- if we initially have six findings  
15          for case one and the last five and six drop  
16          off, and they were tagged on your summary  
17          matrix as five and six in certain check boxes,  
18          and you see the five and six drop off on the  
19          next report, you can follow it through. You  
20          know, it's a good way to follow through what's  
21          happening, as far as the resolution process,  
22          with all the findings.

23          But also in the next round I wouldn't want to  
24          just do the contentious findings. I'd want to  
25          summarize all -- you know, all the findings.

1           And I'd like to add those to this matrix for  
2           the first 20, too, but it involves going back  
3           through the meat of that report to do that.

4           **DR. WADE:** If I could offer up sort of an  
5           observation, you have your contractor's report  
6           on the first 20, individual and summary. Now  
7           it's for the Board to take that and to do  
8           something with it. Maybe you accept it; maybe  
9           you modify it slightly. I mean I think that's  
10          something that the Board needs to do. It could  
11          be the Board will decide to withhold a  
12          significant statement on NIOSH's performance on  
13          dose reconstruction until the 62 are done.  
14          You know, that's your option.  
15          You have now a third of the work done. You  
16          have your contractor's report. You could offer  
17          a statement now, or you could wait. That said,  
18          you have the -- I think the more important  
19          aspect of the work, and that is how do you make  
20          the process better. And that's what you're  
21          talking about now. That has to go on, but what  
22          the Board says relative to NIOSH's performance,  
23          do you say it now; do you wait for the 62 to be  
24          done? That's something that you need to  
25          discuss and decide.

1           **DR. ZIEMER:** Well, let me suggest as a way  
2 forward here, one of the issues was in fact the  
3 scorecard issue. In fact, one of the reasons  
4 we sent things back was not only to resolve  
5 some issues between SC&A and NIOSH, but was  
6 also to ask the contractor to relate their  
7 findings to that original list. They may now  
8 have done that.

9           And I'm wondering if we can't, as a part of our  
10 recommendation here or as one recommendation,  
11 recommend to the Board that in fact this  
12 scorecard that has been developed by SC&A --  
13 that they continue to utilize that as part of  
14 their reporting process to us in the future,  
15 both for the individual cases and for their  
16 summary. Do you wish to make such a  
17 recommendation that this be still part of the  
18 process, the SC&A checklist?

19          **DR. WADE:** Again, what I would suggest that the  
20 subcommittee do is -- in this piece of paper  
21 there's a great deal of intellectual content.  
22 And I think you own this, and I think this is a  
23 very powerful piece of paper. Do you feel that  
24 this piece of paper is reflected in the  
25 footnotes to this? If you do, then I think

1           you've got closure. But I think there is a  
2           discussion to have about that, and I don't  
3           think that discussion has happened yet.

4           **DR. ZIEMER:** This -- the discussion here on the  
5           ranking of the findings really shows up in the  
6           other document in terms of how we wrap things  
7           up.

8           **MR. GRIFFON:** I think one difference that Lew's  
9           pointing to is -- and I actually -- if I  
10          remember this comment right, is -- a couple of  
11          people brought this comment up on the other  
12          matrix, was that we should probably have --  
13          because if you remember the way I was ranking,  
14          it was not only whether a finding had a  
15          significant impact on the dose, but also was it  
16          -- did it impact only that case, possibly cases  
17          from that entire site, or broader to -- was it  
18          a programmatic issue? Was it a -- you know,  
19          possibly all cases?

20          **DR. ZIEMER:** Uh-huh.

21          **MR. GRIFFON:** And then someone said well, maybe  
22          you should have a column -- an extra column in  
23          there that says, you know, a ranking and  
24          whether it's a broad finding, a site-specific  
25          finding, or a case finding, or something to

1           that effect. I think the footnote on this  
2           other matrix sort of misses that level of this  
3           ranking.

4           **DR. WADE:** It does. Now if you want that --

5           **DR. ZIEMER:** This is based on individual cases  
6           here.

7           **MR. GRIFFON:** Right. Right.

8           **DR. ZIEMER:** It doesn't speak to the impact on  
9           --

10          **MR. GRIFFON:** Or -- or the poten-- I guess, you  
11          know --

12          **DR. ZIEMER:** Potential impact?

13          **MR. GRIFFON:** -- I was thinking if it has the  
14          potential impact, you know.

15          **DR. ZIEMER:** Yeah.

16          **DR. WADE:** More comprehensive.

17          **MR. GRIFFON:** Right, right.

18          **DR. ZIEMER:** On many cases.

19          **MR. GRIFFON:** Is it a finding that could be --  
20          could it have been --

21          **DR. ZIEMER:** Be widespread, yeah.

22          **DR. WADE:** I think that's a very important  
23          finding. The question is do you want the  
24          contractor to do that or do you want to do  
25          that, based upon the contractor's work for you.

1           And I think that's not a trivial point.  
2           Other than that, I think they track quite well.

3           **MR. GRIFFON:** Yeah, I agree.

4           **DR. ZIEMER:** Let me ask a question here, John -  
5           - or maybe Rich wants to address this, too --  
6           but when you do your wrap-up, what meaning  
7           would these footnotes have in a wrap-up  
8           document? Because it looks like it's very  
9           individual, case-specific.

10          **DR. BEHLING:** Yes and no, 'cause you can have a  
11          wrap-up for the individual as well as for the  
12          collective. For instance, if we find -- in an  
13          individual for a single dose reconstruction --  
14          a series of -- let's call them deficiencies  
15          that have moderate impact individually. But  
16          taken collectively -- let's assume that there's  
17          an error in missed dose, there's an error in  
18          neutron dose, there's an error in photon dose,  
19          any one of which singly would have only  
20          marginal impact on the collective dose for that  
21          individual organ.

22          But when you tally them all up, they may have  
23          in fact now a significant impact. And so we  
24          couldn't -- when I tallied these up, I looked  
25          at the magnitude for each individual deficiency

1           that each checkmark, and then I tallied the  
2           number of checkmarks in that category of low,  
3           medium and high and came up with some  
4           understanding of whether or not this could  
5           potentially, in combination of these  
6           deficiencies, affect that individual case.  
7           For all of the doses, no, those deficiencies  
8           simply don't have much of a meaning because  
9           we're talking about does it affect the  
10          individual organ dose for that individual or --  
11          and/or the probability of causation which  
12          determines whether or not the individual would  
13          be compensated.  
14          But when we roll them up in all 20 cases, those  
15          numbers have very little meaning other than to  
16          let you know that there are errors here that  
17          are prevalent in some areas and perhaps point  
18          to a systematic problem that may involve, for  
19          instance, interpretation of a given procedure  
20          that is being misinterpreted by the dose  
21          reconstructors. And we've already found that  
22          there's at least three or four guidance  
23          documents that have consistently misrepresented  
24          -- or misinterpreted by dose reconstructors,  
25          and that allows us to do that. When I see, in

1 missed photon dose, a constant checkmark and  
2 I've -- now working on the second set of 18 and  
3 I see the same error over and over again and my  
4 root cause analysis says the problem is the  
5 guidance document, the TIB. And so it allows  
6 me to do that.

7 But to answer your original question, no, those  
8 high, medium and low do not have any meaning  
9 when we wrap up all of the 20 cases.

10 **DR. ZIEMER:** But the prevalence number may.  
11 The prevalence --

12 **MR. GRIFFON:** Right.

13 **DR. BEHLING:** Yes.

14 **DR. ZIEMER:** -- itself may tell you something.

15 **DR. BEHLING:** Yes, it will point to a certain  
16 systematic problem.

17 **DR. ZIEMER:** In other words, there may be a  
18 medium deficiency that's occurring again and  
19 again and again.

20 **DR. BEHLING:** Yes, and we've already found that  
21 there are certain procedures that are  
22 consistently being misinterpreted.

23 **DR. ZIEMER:** Rich, did you have a comment?  
24 Please, Rich Toohey.

25 **DR. TOOHEY:** Yeah, Dick Toohey, ORAU team --

1           representing myself obviously, not NIOSH, in  
2           these comments. But actually what I'm going to  
3           remark on was just touched on by Mark and Hans  
4           and that is, especially on summary statistics  
5           on this, I can't tell whether there is a --  
6           I'll use the term error, or at least  
7           disagreement in what is in the procedure -- and  
8           certainly the Bethlehem Steel or the Savannah  
9           River max dose would be examples of them -- and  
10          that appears on every dose reconstruction  
11          review that used those procedures.  
12          Or a very different one where one of my dose  
13          reconstructors did not follow or misapplied a  
14          procedure which, in and of itself, is okay.  
15          And those things require very, very different  
16          corrective actions if we're going to improve  
17          the system. So I think it's very important  
18          somehow or another to catch that sort of thing,  
19          especially in the summary statistics. Because  
20          if you just say well, you know, 60 percent of  
21          them had this problem, then -- like B -- what  
22          was it here on internal dose, F-3, was the dose  
23          value correctly derived, that doesn't tell me  
24          if the dose reconstructor misused the document  
25          -- the supporting document or if the supporting

1 document was at issue.

2 **MR. GRIFFON:** Right, that's why I was saying  
3 there's a utility with both, I think, because -  
4 - yeah, prevalence certainly may -- you know,  
5 as we see that prevalence out of 60 cases we  
6 may say, wow, this photon dose is coming up an  
7 awful lot, you know. Then I might want to tag  
8 back to the full matrix and say is it because  
9 of misapplication of a procedure or is one  
10 procedure always having a problem? And maybe  
11 it's not the users; maybe it's the procedure,  
12 you know, something like that, yeah.

13 **DR. TOOHEY:** Now there's another issue on that,  
14 and that is -- well, it's actually the issue in  
15 TIBs 1 and 2, the maximum internal dose, where  
16 the issue is using ICRP-30 models versus ICRP-  
17 68 models. And we shared in TIB-1 that the  
18 majority of radionuclides we used at Savannah  
19 River using the ICRP-30 model to derive intake  
20 was actually claimant-favorable. Now granted  
21 it's not the best science, but since the idea  
22 was to develop maximum internal dose estimates,  
23 claimant favorability we thought was more  
24 important. So that's another issue that would  
25 need to be considered, maybe more appropriately

1 at the resolution stage.

2 But again, we would just have a checkmark that  
3 the dose was not correctly derived. Well,  
4 correct by what standards, best current  
5 available science or making claimant-favorable  
6 assumptions in the interest of providing a  
7 maximum dose estimate?

8 And one final thing, if I may. There's one  
9 thing on here under B, review of interview and  
10 documentation provided by the claimant, B-1,  
11 did NIOSH address all work history, dates,  
12 locations of employment reported by the  
13 claimant? That's really not a NIOSH issue.  
14 DOL makes the call on covered employment. So  
15 if we see in a CATI interview a discrepancy  
16 between the DOL submittal on the case, the only  
17 way to appropriately address it is to refer the  
18 claimant back to DOL to raise the issue.

19 **DR. ZIEMER:** Which item is that, Rich?

20 **DR. TOOHEY:** It was on the first page, Paul,  
21 under -- it's B, review of interview and  
22 documentation provided by claimant, B-1.

23 **MR. GRIFFON:** I think that was a little -- I  
24 know what you're saying, Dick, and I agree with  
25 that on the DOL perspective, but I think that

1 point was getting more at do they consider the  
2 work history in the -- maybe in the  
3 appropriateness of dose calculations. For  
4 instance, was there certain coworker data that  
5 could have been used? Based on their work  
6 history, they shouldn't have used operator data  
7 if they had a security guard or something like  
8 that. I think that was --

9 **DR. TOOHEY:** Oh, okay.

10 **MR. GRIFFON:** I think that's what --

11 **DR. ZIEMER:** It's within the accepted -- I  
12 don't think this was getting at quite what you  
13 were talking about, whether it's --

14 **MR. GRIFFON:** I don't think it --

15 **DR. ZIEMER:** -- the right period. I think  
16 we're accepting what DOL --

17 **DR. BEHLING:** Yeah, and also the issue of  
18 requesting dosimetry. If, for instance, a  
19 person worked at Los Alamos, and then, for  
20 instance, went to Hanford, it is NIOSH's  
21 responsibility --

22 **MR. GRIFFON:** To get all of it.

23 **DR. BEHLING:** -- to secure those records.

24 **DR. ZIEMER:** Right, that's the nature of it,  
25 yeah.

1           **MR. GRIFFON:** Yeah, from that standpoint.

2           **DR. TOOHEY:** Okay, fair enough. Thank you.

3           **DR. ZIEMER:** Thank you, Richard, for those  
4           comments.

5           Well, one of the questions that arises in all  
6           this is -- because we end up with a -- we end  
7           up, as it is right now, with a kind of a score  
8           sheet. And then we have this document which is  
9           the issue resolution tracking and so on, which  
10          is -- and the ranking of the seriousness and so  
11          on.

12          Who -- one of the questions is who's going to  
13          do this? Does this now become the job of the  
14          contractor as an added tracking? I mean, Mark,  
15          you've kind of done this by hand, but as we go  
16          forward, if we say that this is the kind of  
17          thing we want, are we asking -- do you envision  
18          asking the contractor to take the findings that  
19          come and the issues that are raised by NIOSH  
20          and doing something like this, which is almost  
21          an additional subtask within --

22          **MR. GRIFFON:** Maybe John...

23          **DR. MAURO:** Effectively, it has been done.  
24          Unfortunately, it's imbedded in 300 pages of --

25          **DR. ZIEMER:** Right, of -- of --

1           **DR. MAURO:** -- But in theory, as we write our  
2 report -- 'cause I did the first five -- I  
3 recall having the list of --

4           **DR. ZIEMER:** Right, you had a list of  
5 questions, NIOSH had a list of questions --

6           **DR. MAURO:** -- right, had it right next to me  
7 while I was rewriting my cases one through  
8 five. And as soon as I hit one of the --  
9 NIOSH's comments, I addressed it, said during  
10 the -- during the review meeting on January  
11 12th the point was made, and then I resolve it  
12 right -- well, I tell -- I explain right there  
13 what our understanding is on the status of that  
14 issue. In most cases it was a matter of yes,  
15 we agree with the comment as -- as -- I  
16 remember in the case that I did, and we  
17 withdrew it. Or it was agreed that this is an  
18 open -- the oro-nasal breathing, this is an  
19 open item. They're right -- as it stands right  
20 now, NIOSH is looking at the issue, whether or  
21 not that is something that needs to be factored  
22 into the models or not. So in other words, I  
23 did the best I could, just as you did when you  
24 went through the document and you pulled it  
25 out.

1           **DR. ZIEMER:** But you're effectively doing this,  
2           in a sense, now.

3           **DR. MAURO:** It's in there. It's a matter of --

4           **MR. GRIFFON:** I guess what we could -- what --

5           **DR. MAURO:** -- we extracted -- but you may  
6           prefer to do it, because this way the Board,  
7           you know -- whatever you'd like to --

8           **MR. GRIFFON:** Yeah, I think there's value to --  
9           I mean as we've said before, this is our report  
10          -- the Board's report, not the subcommittee's,  
11          but the Board's report. But I think we can  
12          maybe ask our contractor to write their reports  
13          such that it's easier to extract these  
14          findings. That might be -- and that's just a  
15          logi-- you know, a logistical thing I think, so  
16          that we can make sure our matrix is -- has  
17          everything and is comprehensive.

18          **DR. MAURO:** I'd like to add that that would be  
19          very easy for us to do, since we're doing it  
20          anyway. It's just a matter of, as we're  
21          writing, pull it out.

22          **MR. GRIFFON:** And that's part of my reason for  
23          --

24          **DR. ZIEMER:** You could put it right into this  
25          kind of a format.

1           **DR. MAURO:** Very definitely.

2           **MR. GRIFFON:** And that's part of my reason for  
3           thinking of linking these to the checkmarks in  
4           this other table because you've just got layers  
5           of -- there's no lost findings, so to speak,  
6           you know, so... But I think the subcom-- I  
7           mean my feeling is that if they have that  
8           report, they basically -- and they've laid out  
9           the findings so that they're very easy to find  
10          within the bulk of their report, I think it's  
11          worth the subcommittee making the effort to  
12          pull those findings and construct our matrix as  
13          we go because then we're getting into the meat  
14          of the issues, too. We're looking at the  
15          report more in depth, so I think that's  
16          important, yeah.

17          **DR. ZIEMER:** But a part of this is just the --  
18          sort of the physical work of doing it. I mean  
19          we could easily ask the contractor, I think, to  
20          actually generate this if they have the  
21          wherewithal to do it. I mean rather than us to  
22          sit there and retype things or -- do people  
23          still use that word, type? To re-keyboard  
24          things -- well let's see. Where are we here?  
25          Other comments or suggestions on --

1           **DR. DEHART:** If I'm hearing correctly, we've  
2 got a two-part, so far. We've got the report  
3 that comes in -- the main sheet from the  
4 contractor for each of the cases. And then  
5 that's going to be followed by a second portion  
6 of the report that will have something similar  
7 to the scoreboard, scorecard or whatever you  
8 want to call it.

9           **MR. GRIFFON:** The Board summary report.

10          **DR. DEHART:** The Board summary on this. And  
11 any recommendations would be, I think, separate  
12 yet because the recommendations aren't here.  
13 So the third part would be a list of  
14 recommendations. And this, in reality, is a  
15 work in progress continuing as we work each  
16 section. So this would be for the first 20.  
17 Then there would be a follow-on with the next  
18 18 cases.

19          **DR. ZIEMER:** That's right, that's right.

20          **MR. GRIFFON:** I sort of envision this matrix,  
21 this table, having a front-end report -- maybe  
22 one or two pages -- that said out of this 20 --  
23 we've reviewed the 20 cases. Here's what we  
24 found, like you had indicated before, and if we  
25 had any recommendations -- preliminary

1            recommendations for changes, and then -- and  
2            this -- you know, this matrix would be like a  
3            table with that report. That's the way I  
4            envision...

5            **DR. ZIEMER:** The cover page, which is kind of  
6            like an executive summary, what do you envision  
7            that saying? Is that -- for example, would it  
8            be like a statistical summary of the findings,  
9            or numbers of points where there's agreement or  
10           disagreement, or kinds of findings, or numbers  
11           of significant findings? What are you talking  
12           about when you say a cover sheet? What would  
13           be the content of that?

14           **MR. GRIFFON:** Right, I --

15           **DR. ZIEMER:** And this is not just for Mark. I  
16           mean --

17           **MR. GRIFFON:** Yeah, I'm just -- I'm sort of --

18           **DR. ZIEMER:** -- I'm asking us to --

19           **MR. GRIFFON:** -- thinking out loud here, but --

20           **DR. ZIEMER:** -- think about what is it? I mean  
21           -- all right, this is the meat of it, but what  
22           do we do with these items? Are we saying,  
23           okay, here --

24           **MR. GRIFFON:** Thinking out loud here, but --

25           **DR. ZIEMER:** Are we going to flop this down in

1 front of the Secretary and say well, here's our  
2 findings. He'll say, well, what does it mean?

3 **DR. WADE:** Well, if I might be allowed an  
4 observation. I mean I think -- again, if you  
5 look at SC&A's footnote three -- I mean if you  
6 get to the root of the cause of auditing this,  
7 the question is did they find deficiencies that  
8 impacted the compensability of the case, yes or  
9 no? I mean if the answer is yes, I mean I  
10 think that's terribly significant. If the  
11 answer is no, I think then you can move down to  
12 the next level.

13 But I think you're -- and I like your words,  
14 "here's what we found," needs to start with the  
15 issue, are dose reconstructions being done  
16 correctly as it relates to decisions on  
17 compensability. And then you can work your way  
18 down, you know, to more esoteric  
19 considerations. But I think it needs to start  
20 with the big question, did they get it right or  
21 not.

22 **DR. ZIEMER:** Lew, you're suggesting that as a  
23 starting point we would -- we have 20 cases.  
24 Question one, based on the findings of our  
25 auditor, were any of these -- did any of the --

1 do any of the findings affect the  
2 compensability of cases. And I think more  
3 specifically we're asking are there cases that  
4 should have been -- where there should have  
5 been compensations that weren't.

6 But I suppose we also would like to know if we  
7 had errors in the other direction, even though  
8 you're not going to go back and --

9 **DR. WADE:** True.

10 **DR. ZIEMER:** -- take the money back.

11 **DR. WADE:** But I think it starts with the big  
12 question, and then you go to the next -- and it  
13 sort of follows their three, two, one, or it  
14 also follows your severity measures. And I  
15 think you should report out on that. I think  
16 it ends with we think the process would be  
17 improved by these recommendations being  
18 followed.

19 So I think it goes from sort of a headline down  
20 to the work, and I think that's quite  
21 reasonable. Whether you do it at 20 or whether  
22 you do it at 62, I think that's a discussion,  
23 but I think that would be a reasonable  
24 expectation of the work of the Board.

25 **DR. ZIEMER:** For example, one might have a

1 report that said these 20 cases -- one, the  
2 compensability would be altered in one case or  
3 no cases or three cases or whatever it is. And  
4 then work your way down to less significant  
5 issues. Although compensability has not been  
6 affected, the following concerns are raised in  
7 terms of procedures, calculations, whatever it  
8 may be.

9 **DR. WADE:** Right, just to follow SC&A's words,  
10 the next bullet could be, "While compensability  
11 wasn't affected, there was a deficiency that  
12 significantly impacted the dose." Well, that's  
13 something to note -- down to their third, which  
14 is it has only marginal impact on the dose.  
15 And then to me the big second part of it is now  
16 here are things the Board thinks NIOSH needs to  
17 improve upon as it practices the art of dose  
18 reconstruction. And that would be -- that  
19 would flow from this as among other things.

20 **DR. DEHART:** I don't know that we have the  
21 summary sufficient to answer the first  
22 question.

23 **MR. GRIFFON:** Right.

24 **DR. DEHART:** We don't know whether this will  
25 affect the compensation.

1           **DR. WADE:** I do think we have a summary from  
2           SC&A now available to us, right?

3           **DR. BEHLING:** Right, and again --

4           **DR. ZIEMER:** They only use the word "may"  
5           affect it.

6           **DR. BEHLING:** I think that's exactly right  
7           because I can look back at the first 20 cases,  
8           and I've -- I'm the person who does all the QAs  
9           and most of the ones that you see in front of  
10          you so I'm quite familiar with it. And there's  
11          one case where the number of errors could have  
12          potentially pushed the guy over the 50 percent  
13          mark. I did not run the POC calculation --

14          **DR. ZIEMER:** Do we have your wrap-up sheet on  
15          the latest version?

16          **DR. WADE:** We can get copies of it.

17          **DR. BEHLING:** I brought my report with me, but  
18          here's the problem that can complicate matters.  
19          In that particular case, I saw some  
20          deficiencies that were very definitely claimant  
21          unfavorable, meaning that they underestimated  
22          those because they failed to account for  
23          missing neutron doses, missing photon doses, et  
24          cetera.

25          On the other hand -- and this is where I've had

1 a serious discussion with NIOSH people -- they  
2 were extremely claimant-favorable because they  
3 thought this was not a compensable case. Now  
4 when you ratchet up the other doses that were  
5 legitimately underestimated, they will simply  
6 then say you know that hypothetical exposure  
7 that we gave you 17 rem for for the 28 nuclides  
8 because it was a reactor facility? We're going  
9 to take that away from you. And that may just  
10 turn out to be the exact number of rems that  
11 you would have added legitimately.

12 So the question of is it compensable as a  
13 result of these deficiencies, the answer is we  
14 don't know because chances are when you sharpen  
15 your pencil and you say now we're coming up to  
16 that 50 percent mark and best estimates prevail  
17 and best estimates usually don't allow you to  
18 give you a hypothetical, you're back to square  
19 one.

20 **DR. ZIEMER:** We understand that, and I think --  
21 in any event, it wouldn't be your job to make  
22 the determination of compensability anyway, but  
23 to raise the issue, and that would go back to  
24 NIOSH as part of their ongoing quality --

25 **DR. WADE:** We do have this -- we do have the

1 summary sheet, and if John has it, we can get a  
2 copy.

3 **DR. ZIEMER:** Yeah, I don't think I have my copy  
4 here, but I was just -- for example in the  
5 first 20 cases --

6 **DR. BEHLING:** I would suggest we look at case  
7 number six.

8 **DR. ZIEMER:** Well, I want to see what the wrap-  
9 up looks like of everything.

10 **DR. BEHLING:** These are the wrap-up.

11 **DR. ZIEMER:** Do I have the -- this is --

12 **MR. GRIFFON:** I don't see any highs in there.

13 **DR. WADE:** No, I didn't see any highs. When I  
14 looked at it there were no highs.

15 **DR. BEHLING:** No, as I said, I tried to stay  
16 away from the collation of numbers in the  
17 summary sheet. You will see that on the  
18 individual sheet.

19 **DR. WADE:** Right, that's understood.

20 **DR. BEHLING:** And I would say for that you may  
21 want to look at case number six.

22 **DR. WADE:** Well, let's start with the summary  
23 sheet. Maybe I can get that copy.

24 **DR. BEHLING:** You will see --

25 **MR. ESPINOSA:** By chance was that e-mailed to

1 us?

2 **DR. WADE:** It was certainly given out at the  
3 last Board meeting.

4 **MR. GRIFFON:** It was e-mailed, too.

5 **DR. BEHLING:** If you look at some of these,  
6 there were a whole bunch of mediums, and when  
7 you add them up, the mediums could potentially  
8 -- this why I have a question mark here.

9 **DR. ZIEMER:** Okay, but on the summary sheet,  
10 this says 15 cases -- oh, that's 15 cases that  
11 -- where you actually --

12 **DR. BEHLING:** Yes, starting with case number 6  
13 through 20.

14 **DR. ZIEMER:** Right, would you all like a copy  
15 of this summary? That would be the...

16 **DR. BEHLING:** Just two sheets. But if you look  
17 at the individual case and the potential impact  
18 of multiple deficiencies, you'll see that --  
19 and this is where we see the question mark.

20 **DR. ZIEMER:** All right, this is the -- well,  
21 September 7th was the date that they received  
22 them. This is the report dated February 2005,  
23 audit of first 20 cases.

24 **MR. GRIFFON:** Hans, maybe you can answer a  
25 question while they're passing this out. Why

1 doesn't that one on case six get captured in  
2 the summary matrix? Shouldn't there be a one  
3 in the high field under -- or no? I'm --

4 **DR. BEHLING:** Because we really wanted to just  
5 collate the column and say they were -- eight  
6 deficiencies that were in the medium range, so  
7 forth, and I can't go from one to the other  
8 because one cancer has nothing to do with the  
9 other cancer.

10 **MR. GRIFFON:** I see. Okay. Okay.

11 **DR. BEHLING:** So in fact on that summary  
12 checklist we will delete that -- those  
13 footnotes because they do not apply. This is  
14 strictly a collation of deficiencies that  
15 define the first 15 cases.

16 **DR. ZIEMER:** Well, in fact maybe your roll-up  
17 sheet needs a little bit -- I'm just wondering  
18 if it needs to be reformatted a little bit  
19 where it's a -- specifically a summary where  
20 you indicate that you're telling us the number  
21 of cases that fit into these categories. And  
22 we would understand that the footnotes still  
23 apply to the individual cases. But -- but --  
24 and then we're looking at prevalence of a  
25 finding, which --

1           **DR. BEHLING:** Yes, the checkmark has been  
2 replaced by a number now.

3           **DR. ZIEMER:** Right. So rather than this being  
4 a case review checklist, this now is a summary  
5 of case review checklists -- or something that  
6 differentiates it and gets interpreted a little  
7 bit differently, perhaps.

8           But presumably, based on this, we could make  
9 certain statements about -- of the type that  
10 you were talking about in the numbers of cases  
11 where their -- the compensability may have been  
12 affected. We're not going to necessarily say  
13 it did. We're going to say -- "may be  
14 affected" is the terminology they use.

15          **MR. GRIFFON:** Again, I think Lew asked the  
16 right question at the end, too. You know, I  
17 don't disagree with that format, it's just a  
18 question of when should we do that type of  
19 roll-up. And these 20 cases I don't think are  
20 representative at all of the whole --

21          **DR. ZIEMER:** No --

22          **MR. GRIFFON:** -- the whole system.

23          **DR. ZIEMER:** No, but one of the issues is what  
24 do you do with the first --

25          **MR. GRIFFON:** Right.

1           **DR. ZIEMER:** -- how do you summarize the first  
2           20?

3           **MR. GRIFFON:** I understand.

4           **DR. ZIEMER:** Can we not say that this is what's  
5           been found so far? In these first 20 cases  
6           there were --

7           **MR. GRIFFON:** Yeah, yeah, I --

8           **DR. ZIEMER:** -- there were findings of this  
9           type.

10          **DR. WADE:** I would think -- again, taking high  
11          purpose to our work, at a minimum we need to  
12          use what we learn on the 20 to improve the  
13          process, so that has to happen regardless.  
14          When you write your summary, you could write it  
15          at 20. I assume there was a certain wisdom  
16          when you did the 62; you created that unit. I  
17          don't know if that becomes a logical point to  
18          write your summary. I don't know, but I think  
19          it's an issue that needs to be discussed.

20          **DR. ZIEMER:** And keep in mind -- and I think  
21          Hans raised this point -- that many of those  
22          subsequent reconstructions were done perhaps  
23          even earlier than these, so these findings  
24          don't necessarily impact on those, but we're  
25          still looking forward to what is being done in

1 the future. And in some cases if there was a  
2 finding of either error or assumptions that  
3 affect compensability, NIOSH has the ability to  
4 go back and pull cases several cases back and  
5 re-examine them -- those that perhaps were not  
6 compensated.

7 **DR. BEHLING:** In fact, they will not impact the  
8 first 4800 cases that have been done to date.

9 **DR. ZIEMER:** There you go, except insofar as  
10 they do go back if there's --

11 **DR. WADE:** But they could.

12 **DR. ZIEMER:** -- they could go back if there was  
13 something that arose that said yeah, we need to  
14 go back and revisit some of these.

15 **MR. GRIFFON:** Yeah, I'm not saying that we  
16 shouldn't summarize. I'm just saying that we  
17 may want to consider caveats in how we state it  
18 because even the first 60, I believe, were  
19 still --

20 **DR. ZIEMER:** It's still a small --

21 **MR. GRIFFON:** -- if you look at the number that  
22 are -- were greater than 45 percent POC -- I  
23 mean certainly we're still going to have a lot  
24 of cases where they're going to use the 28  
25 radionuclide worst case assumption. But they

1 haven't gotten down to the -- or we haven't  
2 seen that many of the cases where they had to  
3 sharpen the pencil and where they got close to  
4 that 50 percentile. So I think -- you know,  
5 the summary's not a bad thing, but I just think  
6 people also have to understand what we were  
7 sampling from. I think that's important to  
8 somehow state.

9 **DR. WADE:** And there's still two intellectual  
10 issues that I think are before you and sort of  
11 let me restate them. You have the issue that  
12 Hans is bringing to us, and that is that on an  
13 individual case there could be a number of  
14 medium categories that might, acting together,  
15 elevate the concern.  
16 And then you have Mark -- or the group that put  
17 this documents together concern is that is on  
18 an individual case saying we found something  
19 and it is of great concern to us because we  
20 think it could well affect a number of other  
21 cases. I think that's terribly important  
22 intellectual content in what you have and you  
23 need to capture it and do something with it.  
24 The question is do you have the vehicles in  
25 place to do that now, and I think that's

1 something the subcommittee needs to talk about.

2 **DR. ZIEMER:** Well, it's not clear to me that we  
3 are at that point. I mean...

4 **DR. DEHART:** Well, again, I bring up the issue  
5 that there has not been full resolution, even  
6 within the 20 cases, so it makes it hard to  
7 determine whether or not the contractor will  
8 change or NIOSH will change. Obviously some  
9 changes will occur, with over half of the  
10 individual cases saying that we need to look at  
11 various other areas. Twenty is a small number,  
12 but we need to report out something in terms of  
13 we have initiated an audit process, so I think  
14 we need to say something to that.

15 **MR. GRIFFON:** I mean I think there's -- I think  
16 we can certainly make some -- I was more  
17 concerned with summary statistics than with  
18 some findings that we think -- for improv-- you  
19 know, areas for improvement I guess is the way  
20 to state it.

21 I think we have some of those, and I think at  
22 the meetings with NIOSH and SCA I think we  
23 ventured upon several of those. I mean we --  
24 you know, one that comes to mind for me is the  
25 way the DR report is written. And in the

1 meetings NIOSH conceded that they need to do a  
2 better job at communicating with the receiver  
3 of that report. Not only the receiver of that  
4 report, but also the report itself has to be --  
5 lend itself better to an audit.

6 There are just so many things that aren't  
7 stated in the report that for someone just to  
8 look at it in the public, or even a health  
9 physics contractor, it's difficult to walk it  
10 through and recalculate the same -- come to the  
11 same conclusion. So for public purpose and for  
12 the audit purpose, we think -- I think they've  
13 accepted that the DR reports need some revision  
14 in formatting and revision in content.

15 It doesn't mean they don't have the content and  
16 didn't do the work correctly, but it wasn't  
17 really presented very well. So I think that  
18 was an important thing that came out of some of  
19 our meetings. And that's certainly, I think,  
20 supported -- as an example.

21 **DR. WADE:** And more than just an example, there  
22 are many positive things that have come out of  
23 this process that have made dose reconstruction  
24 better, no question about that. I don't think  
25 there's anywhere we're capturing that, either.

1           **DR. MAURO:** If I may, by way of process, one of  
2           the things I think that needs to be brought  
3           into the picture is the task three report, and  
4           I think Richard made a very good point.  
5           There's a very important distinction to be made  
6           between do we have a generic problem that has  
7           to do with the procedures. So all of a sudden  
8           what I see here is -- what's happened -- you  
9           know, it's so hard to step outside and say wait  
10          a minute, where are we and where are we going.  
11          The actual dose reconstruction audit reports in  
12          the form they have taken, and the ability to  
13          try to let it tell you a story, it's trying to  
14          speak to you. You have to not only listen to  
15          what is coming out of the report and also the  
16          dialogue with NIOSH and the notes that have  
17          been taken, but then there's another story that  
18          comes out of task three which starts to get to  
19          root cause issues. And it's the confluence of  
20          our report with the expanded review cycle with  
21          the results of the task three that starts to  
22          converge. And what emerges from it is a story.  
23          So what I see here is the process is taking  
24          form, almost in a self-organizing way whereby  
25          it's the confluence of this that starts to

1 emerge. Where do we just have errors that were  
2 made that weren't caught and they were one of a  
3 kind, and they have to do a little bit with  
4 some -- let's say better QA, should have caught  
5 that one -- but it's nothing systemic. It's  
6 just something -- what I mean by systemic, it  
7 doesn't necessarily go back to a procedure that  
8 is misleading or confusing, because we do have  
9 a lot of that.

10 So what I'm getting at is, unfortunately the  
11 whole story is not told just from only one  
12 dimension. It's coming out of multiple  
13 dimensions that are converging, and the task  
14 three report is very much part of this process.  
15 So I think that a lot of what you are looking  
16 for is going to emerge when we start to talk  
17 about task three.

18 **MR. GRIFFON:** And not only that but the site  
19 profiles as well, John, if I can add. I mean  
20 some of these things have been held back  
21 because they were pending site profile review,  
22 Savannah River and Bethlehem Steel, right?

23 **DR. MAURO:** There's no doubt --

24 **MR. GRIFFON:** So there's --

25 **DR. MAURO:** -- that we're starting to see the

1 site profile reports as another set of  
2 procedures, only specific. So I say our task  
3 three report is just really part of a bigger  
4 array of guidance and background information as  
5 to how the dose reconstruction -- it's -- it's  
6 amazing how such a -- it's a -- when you start  
7 to put your arms out and realize you can't  
8 really stretch your arms big enough to bring it  
9 all in, but it's happening. It's happening.

10 **DR. ZIEMER:** Hans?

11 **DR. BEHLING:** And I just want to give you an  
12 example, for those who do have the report  
13 available to you. I would ask you to look at  
14 case number 16, 18, 19 and 20, I believe. And  
15 you will see the same series of errors being  
16 made in all of those particular dose  
17 reconstructions, and they all come back to two  
18 particular procedures, OTIB 0008 and OTIB 0010.  
19 And it is a consistent error that has been --  
20 and I see now even in the next 18 cases.  
21 And these are systemic errors, but they're not  
22 linked to anything other than a flawed guidance  
23 document that is poorly written and poorly  
24 understood. And so I looked at the people and  
25 said, well, you have four or five different

1 people looking at the same document and making  
2 the same mistake. And I have to say the fault  
3 has to lie in the document because we have four  
4 intelligent people, well-trained health  
5 physicists, who can't decipher the guidance  
6 that's being presented to them.

7 **MR. GRIFFON:** That's another -- another  
8 aggregate finding.

9 **DR. ZIEMER:** Well, here now you have the wrap-  
10 up of the first 20 cases. That is the  
11 scorecard wrap-up. And for example now on item  
12 A-1, did NIOSH receive all requested data.  
13 This would say yes, in 14 of the cases they  
14 did, in one case they didn't. Is that how we  
15 interpret this, and so on? And what's the  
16 significance of that when you say that is low.  
17 Right? And so on. And there's some of these  
18 where it's not -- NA is not applicable, I  
19 assume?

20 There's -- none of these -- let's see, there --  
21 so, for example, you're saying that there were  
22 42 deficiencies where the impact on dose was  
23 marginal?

24 **DR. BEHLING:** No, I --

25 **DR. ZIEMER:** No? What --

1           **DR. BEHLING:** I have the -- sorry. I have not  
2 really had a chance to look at this. Somehow  
3 or other this was transcribed badly in the  
4 final revision. Those numbers -- 46, 42 and  
5 four -- really don't -- I think they fall in  
6 the --

7           **DR. ZIEMER:** That's not the sum of what's --

8           **DR. BEHLING:** Yes, they fall under the first  
9 three columns -- yes, NA and no.

10          **MR. GRIFFON:** Yeah, they're shifted -- they're  
11 shifted --

12          **DR. ZIEMER:** Oh, they're shifted over.

13          **DR. BEHLING:** Yes, they were shifted. And as I  
14 said, I did not intend to even -- I don't know  
15 who -- it left my hands and was in somebody  
16 else's hand for revision. Those numbers of  
17 low, medium, high should not exist.

18          **DR. ZIEMER:** Okay.

19          **DR. BEHLING:** I don't want them in there  
20 because you cannot collate these numbers. They  
21 have no meaning.

22          **MR. GRIFFON:** That's what's confusing.

23          **DR. BEHLING:** Somebody ended up doing something  
24 here that they shouldn't have done. They were  
25 not -- this is not my --

1           **DR. ZIEMER:** Okay, so those three numbers --

2           **DR. BEHLING:** Yes.

3           **DR. ZIEMER:** -- in item H are the sums of the  
4           audit responses.

5           **DR. BEHLING:** Exactly, and all the numbers are  
6           -- under the low, medium, high, they should all  
7           be blank. They -- they have no business being  
8           there.

9           **MR. GRIFFON:** When you total them across, they  
10          should all add up to 15 every time.

11          **DR. BEHLING:** Yes.

12          **MR. GRIFFON:** Yeah.

13          **DR. BEHLING:** Yes.

14          **MR. GRIFFON:** So those extra 1's that --

15          **DR. ZIEMER:** But Hans is also saying -- so this  
16          is not a prevalence number in here under low,  
17          medium and high? I mean you're saying -- you  
18          just told us that there should be no numbers  
19          under low, medium and high.

20          **DR. BEHLING:** Yeah, I wouldn't want that  
21          because they have no meaning when you collate  
22          them across 15 individual reports whether or  
23          not this would have an impact on dose and  
24          impact on cancer or impact on POC. You cannot  
25          collate across individual dose reconstructions.

1           So all of the -- the columns -- in fact, I'm  
2           going to revise this thing so that they will  
3           have no -- none of these columns will exist.

4           **DR. ZIEMER:** Well, what I'm wondering, though,  
5           is -- this was part of the discussion before.  
6           Wouldn't it be useful to know the prevalence of  
7           the individual ones where you found low, medium  
8           and high?

9           **MR. ESPINOSA:** If they're all consistent.

10          **DR. ZIEMER:** You understand what I'm saying?  
11          In this case the footnotes wouldn't have the  
12          meaning before that you had for the individual  
13          cases, but you could tell us something about  
14          the prevalence. How many times did you find  
15          that the recorded organ dose -- let's see, is  
16          the organ dose uncertainty properly determined  
17          for photon dose, and if you said there were two  
18          cases where that occurred, two medium cases  
19          where that occurred.

20          **DR. BEHLING:** I can do that, yeah.

21          **DR. ZIEMER:** Would -- do you understand what  
22          I'm saying? It's --

23          **DR. WADE:** That's what I thought we had, as a  
24          matter of fact.

25          **DR. BEHLING:** Well, it has to be reformatted.

1 Right now this --

2 **DR. ZIEMER:** It has to be reformatted for the  
3 cover things so that it's clear that it's a  
4 prevalence thing.

5 **DR. WADE:** That's fine.

6 **DR. BEHLING:** In my initial intent all I wanted  
7 to do was show that they were -- a total of 46  
8 cases where we had a yes and 42 where there was  
9 NA and four no's. And I should have  
10 potentially added the other numbers, without  
11 necessarily making a reference to whether or  
12 not they impact the dose other than to collate  
13 the numbers of low, medium and high --

14 **DR. ZIEMER:** Yeah, yeah, I think we understand  
15 it -- it's --

16 **MR. GRIFFON:** Yeah, I (unintelligible) --

17 **DR. ZIEMER:** -- I think it has a different  
18 meaning when you roll it out.

19 **DR. BEHLING:** Yes, yes.

20 **DR. ZIEMER:** But we certainly still want to get  
21 the prevalence, I think.

22 **DR. BEHLING:** And then I will revise this to  
23 make sense out of this.

24 **DR. ZIEMER:** Yeah, that's good.

25 **MR. GRIFFON:** And I'm not sure we don't have

1           that, but let Hans look at it -- but except for  
2           that last line, I think we do have it --

3           **DR. ZIEMER:** Yeah.

4           **MR. GRIFFON:** -- 'cause all those add up to --  
5           right.

6           **DR. ZIEMER:** Those are here, yeah. Now my  
7           question at this point is does the prevalence  
8           information address the bullets on our single  
9           sheet, the methodology for categorizing and  
10          ranking cases, or do we still need to go back  
11          to the other matrix to answer that? I mean  
12          based on what Hans has given us here, for  
13          example, one can say that the contractor found  
14          no cases where there was a high probability of  
15          -- or where the --

16          **MR. GRIFFON:** I don't think they did -- to  
17          answer your question quickly, I mean I think it  
18          gets back to Dick's point, is that a checkmark  
19          on that one is not going to tell me whether it  
20          was a procedure problem or whether it was  
21          likely a -- you know, somebody added the  
22          numbers wrong or entered the wrong data and it  
23          might still fall under -- you know, was it the  
24          actual procedure itself or was it the person  
25          implementing the procedure, you know. And I'm

1 not going to find that with just the check box.  
2 You might find it in a more descriptive review.  
3 Does that make --

4 **DR. ZIEMER:** All this -- I think all this would  
5 -- what I'm -- I'm trying to understand what  
6 the wrap-up would say, for example, if there  
7 were no checkmarks in the high column on any of  
8 the individual cases. Can you then say that  
9 there were no cases where the deficiencies  
10 would substantially impact on the  
11 compensability of the cases -- or on a dose?

12 **MR. GRIFFON:** I wouldn't say that -- for the  
13 sheer reason that Roy was talking about, which  
14 is that half of them are unresolved at this  
15 point, and these only summarize 15 cases, and  
16 I'm still --

17 **DR. ZIEMER:** Well, I'm only talking about the  
18 cases that --

19 **MR. GRIFFON:** Okay. But even on this -- I mean  
20 I guess I'd want a little more depth on this,  
21 but when I look under internal dose, there's --  
22 there's no checkmarks on the "no" box, but in  
23 fact I know one of the findings for Savannah  
24 River -- it's still up in the air, but there  
25 was a question about the high five with the

1 ICRP-30 versus 68. Now maybe -- you know, I  
2 don't think that's been resolved either way,  
3 but it's definitely an internal dose --

4 **DR. ZIEMER:** Well --

5 **MR. GRIFFON:** -- finding.

6 **DR. ZIEMER:** -- what we have to do then, it  
7 seems to me, is we have to take these ones  
8 where they have resolved it and what their  
9 findings are, combine it then with the  
10 unresolved ones somehow. I mean it -- at a --  
11 at what point -- what do we do with these  
12 unresolved issues? Are we going to keep going  
13 back to the trough here; we can't do that  
14 indefinitely.

15 **DR. DEHART:** I think you can have unresolved  
16 issues that have been played out, and then the  
17 Board is going to have to decide what to do  
18 with that. We have unresolved issues which are  
19 still being worked, I understand.

20 **DR. ZIEMER:** Right.

21 **DR. DEHART:** And I don't see why we can't  
22 address that, the fact that there's eight or  
23 ten issues that are still being worked. Or do  
24 you want to wait on the report until we have  
25 everything closed out that we can close out,

1 and then --

2 **DR. ZIEMER:** See --

3 **DR. DEHART:** -- for the Board to take a  
4 position on it?

5 **DR. ZIEMER:** No, I think that's -- I think  
6 that's the Board's issue. They would like us  
7 to make a recommendation on that, though. In  
8 other words, this then just becomes a kind of  
9 interim report.

10 **DR. DEHART:** Yes.

11 **MR. GRIFFON:** Yeah.

12 **DR. ZIEMER:** It says this is where we are to  
13 date.

14 **MR. GRIFFON:** Right.

15 **DR. ZIEMER:** Some issues are still being worked  
16 and therefore there may be a change in --

17 **MR. GRIFFON:** Yeah.

18 **DR. DEHART:** But there are --

19 **DR. ZIEMER:** -- conclusions.

20 **MR. GRIFFON:** However, we've found the  
21 following --

22 **DR. ZIEMER:** Right.

23 **MR. GRIFFON:** -- following positive things that  
24 can be done to improve the program and some are  
25 already being implemented by NIOSH.

1           **DR. ZIEMER:** And in terms of -- I want to get  
2 back to your first issue, Lew, on  
3 compensability. You can -- you can still say  
4 that of the findings so far resolved that these  
5 -- these have impact or do not have impact on  
6 compensability, in terms of what you've found  
7 so far, just as a reporting tool.

8           **DR. WADE:** Yes. Again, there are always two  
9 functions. There's the audit function and then  
10 there's the improving the process function.  
11 And you know, I think the latter is more  
12 important. You have to decide when you want to  
13 speak as to your audit results.

14           **MR. GRIFFON:** I think -- I think -- for myself,  
15 I think that I -- we need a little bigger  
16 sample. You know, I'm just afraid what context  
17 that might be used in 'cause we might only have  
18 ten total cases resolved here. If we start  
19 pulling off the ones that have outstanding  
20 issues, I think you're left with eight or ten,  
21 maybe, that have -- you know, SCA's findings  
22 are fully resolved. I don't even know if  
23 there'd be that many, quite frankly. And then  
24 you're going to make a statement that out of  
25 all the cases -- you know, I think that's

1                   potentially misleading and could be misused,  
2                   you know.

3                   **DR. ZIEMER:** I don't know that we're  
4                   necessarily obligated to give the Secretary  
5                   kind of a final audit report. I think we can -  
6                   - we can give him a status report of what we're  
7                   doing and how it's being done -- Lew, wouldn't  
8                   you think?

9                   **DR. WADE:** Sure, and you -- and you could  
10                  decide that, again, that should come after 20,  
11                  it should come after 62, I think it's --

12                  **DR. ZIEMER:** We could give them some kind of a  
13                  summary at some point, but -- but the Secretary  
14                  could simply be informed as to how the dose  
15                  reconstructions are being audited, what the  
16                  process is.

17                  **DR. WADE:** And again, I think there would be  
18                  cert-- there would be different levels of  
19                  urgency. If you were to see in the first 20  
20                  that there were numbers where the  
21                  compensability decision would be impacted by  
22                  faults you found, I think that would -- that  
23                  would set off an alarm and I think you would be  
24                  called to add. We're not seeing that.  
25                  I think it is appropriate then to keep your eye

1 on that and to report out things that would  
2 make the process better. But I don't think  
3 that an alarm has gone off, based upon what  
4 we've seen here. But I think there are things  
5 that could be done better and I think you're  
6 obliged to point that out.

7 **DR. ZIEMER:** But even in those cases, we're not  
8 neces-- we don't necessarily have to go to the  
9 Secretary to get those things corrected because  
10 a lot of it's simply pointing it out then NIOSH  
11 picks up the ball and takes appropriate action.

12 **DR. WADE:** It could be your result of the first  
13 20 is -- having given a reasonable time for  
14 these issues to be resolved -- if you see  
15 issues that are not resolved, your motion could  
16 be to ask NIOSH to address these issues.

17 **DR. ZIEMER:** Right.

18 **MR. GRIFFON:** Right, right.

19 **DR. BEHLING:** Dr. Ziemer, may I --

20 **DR. ZIEMER:** Yes, Hans.

21 **DR. BEHLING:** -- make a correction, because I -  
22 - I have to apologize. It was my wife who  
23 collated and did all the spreadsheet, and I  
24 haven't looked at this for a long time --

25 **DR. ZIEMER:** Now be careful, be careful.

1           **DR. BEHLING:** -- and I am -- I know -- I have  
2 not -- well, she will kill me if she finds out  
3 I have completely compromised her effort here.  
4 And as it stands, this is correct. And let me  
5 explain what it means.

6           **DR. ZIEMER:** Which is correct now?

7           **DR. BEHLING:** The summary table as it exists is  
8 in fact correct and, as I said, this represents  
9 really mostly my wife's work. And what we have  
10 here in -- in -- is as follows: Under the  
11 column yes, NA and no, obviously we're not  
12 interested in anything that has yes in it  
13 because it responds to each of the questions  
14 that you see there under -- for instance, in  
15 the first -- under A, did NIOSH receive all  
16 requested data for the DOE, et cetera. If the  
17 answer's yes, that's great. And if it's NA,  
18 well, it doesn't matter. And it's only when we  
19 have a no that you have a potential problem.  
20 And this is -- when you turn -- on the back  
21 side we had a total of 46 no's, meaning that  
22 there were 46 potential problems. Okay? Or  
23 deficiencies.

24           And then the columns under "If no, what is the  
25 potential significance?" we had a total of 42

1 with significance being very, very low, meaning  
2 that it only marginally impacts --

3 **DR. ZIEMER:** That is a prevalence number, then.  
4 That's this.

5 **DR. BEHLING:** Yeah.

6 **DR. ZIEMER:** Okay.

7 **DR. BEHLING:** And then there were four that  
8 were medium. However, it -- unlike in case  
9 number six where I put the question mark in the  
10 last column, these four do in fact represent a  
11 -- a collective value of a medium and therefore  
12 if -- let's say we had four cases, each with  
13 one medium. You would say well, that's not  
14 going to change the probability of causation.  
15 But if they had occurred in a single case, then  
16 of course they would -- and for that reason I  
17 refrained from even acknowledging that  
18 potential for impacting POC in the collated  
19 numbers.

20 **DR. ZIEMER:** Yeah, understood.

21 **DR. BEHLING:** As -- as it stands, this  
22 document's correct, and I owe my wife an  
23 apology.

24 **DR. ZIEMER:** Okay. So -- and it does look like  
25 the -- I mean if you look through these, they

1 did add up, so --

2 **DR. BEHLING:** Yes.

3 **DR. ZIEMER:** Okay.

4 **DR. WADE:** And I think that's what we -- we had  
5 always thought it was and that's what it is.

6 **DR. ZIEMER:** Okay. The Board thanks you, and  
7 your wife thanks you, too.

8 **DR. BEHLING:** I'm at least man enough to admit  
9 my mistakes.

10 **DR. ZIEMER:** Okay. Other comments? Okay,  
11 ready for a brief break and then we'll resume?  
12 Thank you.

13 (Whereupon, a recess was taken from 1:50 p.m.  
14 to 2:15 p.m.)

15 **DR. ZIEMER:** Okay, we're ready to resume  
16 deliberations. John Mauro has some comments --  
17 John, welcome back to the mike.

18 **DR. MAURO:** Yes, John Mauro. During the break  
19 I had a chance to sort of just step back and  
20 think a little bit about that form, and what is  
21 it really telling us. And the bottom line is I  
22 think it's telling us that notwithstanding the  
23 fact that we really went after these 20 cases  
24 with a fine-tooth comb, what -- what the  
25 outcome is is that, based on our review, we did

1 not find any case that left us with the  
2 impression that it looks like we've got a  
3 situation that might be reversible.

4 In the one case that Hans pointed out where  
5 there was this question mark, there are reasons  
6 that are not -- that one -- if you read through  
7 it, you'll see why there's a question mark  
8 there. But it did not raise it to the level  
9 that we felt warranted putting it in the roll-  
10 up column as a possible reversal. When I say  
11 possible -- so our -- the bottom-line story is,  
12 out of the first 20 cases we did not see  
13 anything whereby the combination of the POC,  
14 together with the level of perhaps  
15 underestimate of the dose, was to such an  
16 extent that we thought the potential existed  
17 for a possible reversal.

18 **DR. ZIEMER:** Thank you. And that's certainly  
19 significant for us to keep in mind as we do our  
20 own summary.

21 I have one other question. On the tot-- the 46  
22 potential problems that are identified in the  
23 roll-up, does that include all the problems  
24 that are still under concern -- or that have  
25 not been fully resolved? Yeah, that's

1 everything.

2 **DR. BEHLING:** Yes, what you're looking at right  
3 now is the report that is part of the expanded  
4 review process and therefore has -- they  
5 removed some -- a few of the items where NIOSH  
6 came back and said we are right and you're  
7 wrong, and we said yes, we're wrong and so we  
8 withdraw. But the report as you see it in  
9 front of you basically reflects what we felt  
10 were residual issues and therefore are issues  
11 that are deficiency or error or minor -- many  
12 of them are very, very minor --

13 **DR. ZIEMER:** Right understood.

14 **DR. BEHLING:** -- and that's fully acknowledged.

15 **DR. ZIEMER:** And then is it fair to state that,  
16 even in those unresolved items then, even if  
17 the -- regardless of how they're resolved, they  
18 have a very low likelihood of impacting  
19 compensability.

20 **DR. BEHLING:** Absolutely. I mean -- not only  
21 compensability, but affecting the dose.

22 **DR. ZIEMER:** Yes.

23 **DR. BEHLING:** And I should also say if you read  
24 through the actual cases, we were probably as  
25 critical of overestimating many of the doses as

1 we were of underestimating --

2 **DR. ZIEMER:** Understood, right.

3 **DR. BEHLING:** -- where we took exception to  
4 these generous assignments of exposures --

5 **DR. ZIEMER:** Right.

6 **DR. BEHLING:** -- that we felt were unwarranted.

7 **DR. ZIEMER:** Right.

8 **MR. GRIFFON:** Can I -- can I just --

9 **DR. ZIEMER:** Mark.

10 **MR. GRIFFON:** -- urge one thing? Can I urge  
11 that we, at this subcommittee level, dig into  
12 the report?

13 **DR. ZIEMER:** Sure.

14 **MR. GRIFFON:** I'm getting a little nervous  
15 about relying on one sheet of paper for all  
16 this case work they put in, especially since I  
17 -- I look at the summary and I'm unclear why  
18 there's no internal dose findings when Savannah  
19 River -- it's not on the Savannah River cases,  
20 either, but we've talked at length about the  
21 high five. And I don't know that that was  
22 resolved yet, and it doesn't show up anywhere.  
23 So I don't understand exactly how these are  
24 tracking through, so I just want to understand  
25 --

1           **DR. BEHLING:** Yeah, because of task one being a  
2           very separate task where we have an obligation  
3           to review several of the TBDs, including  
4           obviously Savannah River, we basically -- or  
5           when I did most of the dose reconstruction  
6           reviews my principal objective was to say did  
7           you comply with the procedure and not necessary  
8           question the integrity of the procedure itself.  
9           In other words, we did raise the issue of the  
10          ICRP-30 versus 60 issue, but ultimately  
11          postponed even that to another discussion that  
12          involved the TBD. And so the internal  
13          exposures among the first 20 cases were almost  
14          to the T those that involved hypothetical  
15          uptakes that involved the high five or the 28  
16          versus 12 nuclides for Hanford, and I did not  
17          challenge that. I simply audited the report  
18          and said the dose reconstructor's job was not  
19          to challenge that and therefore I'm not going  
20          to hold him accountable for necessary  
21          questioning the methodology that has been laid  
22          out for him to follow. And so you're right,  
23          Mark, and we did not necessary address that as  
24          an issue because that was something we felt  
25          came under task one.

1           **MR. GRIFFON:** But -- but -- yes, but it was  
2 brought up and discussed at length at all of  
3 our meetings and I just --

4           **DR. BEHLING:** Yes.

5           **MR. GRIFFON:** -- and these are -- these are  
6 some big issues --

7           **DR. BEHLING:** Yes.

8           **MR. GRIFFON:** -- or potentially big issues --

9           **DR. BEHLING:** Yes.

10          **MR. GRIFFON:** -- at least, that we have to  
11 follow through on, and I think it's terribly --

12          **DR. ZIEMER:** It gets -- it gets --

13          **MR. GRIFFON:** -- (unintelligible) when you see  
14 no internal dose findings, and you went to  
15 these other meetings, I think that doesn't  
16 coincide with what I --

17          **DR. BEHLING:** You will see that is an issue  
18 under the review of the Savannah River TBD,  
19 which is -- I assume -- currently in your  
20 hands.

21          **DR. ZIEMER:** Yeah. Jim Neton, welcome.

22          **DR. NETON:** I want to clarify something. I  
23 think that the crux of the issue with the high  
24 five approach was -- was not so much of the  
25 magnitude of the assigned intake. I think

1           you'll even see words in the report that say  
2           they don't necessarily disagree that this was  
3           an overestimate of dose and the case is still  
4           not compensable, that large overestimate. It  
5           was in the use of -- whether we actually used  
6           the ICRP-30 instead of the 66 methodology,  
7           which is in our regulation. So it's a  
8           conceptual issue related to 66 versus 30. But  
9           the whole high five approach was we were giving  
10          very large overestimating intakes to workers.  
11          And whether you use 66 or 30 is irrelevant if  
12          one buys into the fact that those values are  
13          very, very large overestimates for the workers  
14          who were not very heavily exposed. It's not  
15          really --

16          **MR. GRIFFON:** There was another question and --  
17          but it wasn't captured in the revision of SCA's  
18          document, either -- but I brought it up at the  
19          three-way meeting that we had and that was the  
20          question of whether those high five have ever  
21          been validated, had NIOSH ever gone back and  
22          redone those calculations independently or were  
23          they just taken from the site authors --

24          **DR. NETON:** That's correct. That's another  
25          issue.

1           **MR. GRIFFON:** That was another issue, right.  
2           And it didn't necessarily make this final  
3           draft, I agree.

4           **DR. NETON:** But it's not the ICRP-30 or 66  
5           issue that was raised.

6           **MR. GRIFFON:** Right.

7           **DR. ZIEMER:** John?

8           **DR. MAURO:** John Mauro. Yeah, I'd like -- the  
9           -- one of the I guess challenges to the work  
10          we're doing is very often we're auditing cases  
11          that we have not yet reviewed the site profile.  
12          So what happens is -- and Hans can speak to  
13          this better than anyone -- is that he has to  
14          perform what I would call a mini-review of the  
15          TBD, read the 300 pages, get -- get a  
16          sensitivity for okay, does it look reasonable -  
17          - in other words, do his own review so that he  
18          can then use the TBD, along with everything  
19          else, to check the case.

20          Now you bring up a very good point regarding  
21          the Savannah River because what -- Savannah  
22          River review you may have just received, a hard  
23          copy of it, we just completed. And there's a  
24          whole section dealing with the high five, and  
25          there's a lot of commentary on -- regarding

1           whether or not the -- you'll see when you get  
2           to it that we have questions regarding it.  
3           Now we were not in a position, and quite  
4           frankly we're still not in a position, to have  
5           a judgment on the degree to whi-- of  
6           conservatism imbedded in the high five.  
7           Certainly on first blush the strategy to use  
8           the high five for those cases that we don't  
9           have data and you suspect that the person is  
10          non-compensable, that is -- that's a cut to  
11          make it into the high five world. Right off  
12          the bat we're dealing with those folks that are  
13          not the ones that are in the --  
14          (unintelligible) of NIOSH to be in that range,  
15          so -- but nevertheless we were very -- we had  
16          lots of comments and questions regarding it.  
17          That was the result of quite an effort on the  
18          part of our internal dosimetrists.  
19          When Hans performed a review of the Savannah  
20          River cases, that was actually before -- or  
21          during the time when we were reviewing the  
22          Savannah River site profile. So as a result,  
23          we elected not to perform the high five review  
24          as part of an individual case. It would have  
25          been impossible, the magnitude of the effort.

1           So basically the -- our reviews of each case --  
2           we do the best we can in reviewing the site --  
3           the TBD at -- when -- that supports that case,  
4           but I have to say that it -- by no means is  
5           that review on the same scale and magnitude and  
6           depth as when we perform our TBD review. So we  
7           do have a little bit of a misconnect here.  
8           I think the day will come after we review the  
9           site profile comments and after we go through  
10          our expanded review, we may very well get  
11          around the table and say okay, what does this  
12          mean with respect to the completed reviews of  
13          the cases, the five or six or eight cases of  
14          Savannah River? Is there anything that we've  
15          learned now as a result of the TBD review that  
16          might feed back and have an effect. There's  
17          not -- there's no way to avoid that.

18          **MR. GRIFFON:** Well, in the -- and I -- you  
19          know, don't misinterpret what I'm saying. It  
20          wasn't really a criticism, it was just a point  
21          about dialogue in these other meetings. And  
22          also -- you know, I also recognize that the  
23          high five, for someone who probably -- some  
24          workers who were never even in a hot area it's  
25          obviously a fairly conservative assumption.

1 I'm just pointing out that there were some --  
2 some gaps in that.

3 **DR. MAURO:** You're correct.

4 **MR. GRIFFON:** But the -- the other thing that  
5 comes to mind is the Bethlehem Steel cases  
6 where -- and I don't know where these stand.  
7 You -- you've certainly done more work on this  
8 at this point and it's coming up later in our  
9 meeting here. But there was some questions I  
10 think, not necessarily for the cases we  
11 reviewed here because I think they were mainly  
12 lung cancers, but for other cases where the --  
13 the questions that you guys rose, SCA rose -- I  
14 think you stated at other meetings that they  
15 may have impacted on certain cancers, certain  
16 types of cancers --

17 **DR. MAURO:** Yes.

18 **MR. GRIFFON:** -- for being compensable --

19 **DR. MAURO:** Yeah, they were --

20 **MR. GRIFFON:** -- rather than non-compensable.  
21 Right?

22 **DR. MAURO:** We reviewed several Bethlehem Steel  
23 cases. We were the beneficiary, I -- in fact,  
24 I reviewed the Bethlehem Steel cases myself and  
25 I was the beneficiary of the fact that while I

1 was doing that the Bethlehem Steel site profile  
2 was well along. So basically as it -- in the  
3 case of those -- those cases that are -- the  
4 Bethlehem Steel cases, everything that we've  
5 learned as a result of our review of the  
6 Bethlehem Steel site profile has been captured  
7 and is incorporated into the cases.

8 Now, how some of those issues are resolved -- I  
9 mean they're still pending. That is, NIOSH's  
10 position regarding the issues that we've raised  
11 I believe is going to be the subject of some  
12 discussion. As a result of that discussion,  
13 perhaps some changes that NIOSH might make to  
14 its approach to analyzing -- to the TBD for  
15 Bethlehem Steel, that will have an effect on  
16 our report, which could change some of the --  
17 in other words, change some of the findings, so  
18 --

19 **MR. GRIFFON:** But not on the matrix 'cause  
20 they're not included. Right? The AWEs are  
21 not. Right?

22 **DR. MAURO:** Right, the -- exactly, the AWEs are  
23 not included in that report because there's --  
24 there's no fit.

25 **DR. WADE:** Might I make one other suggestion,

1 Mr. Chairman, just to finish the laying out of  
2 background? Jim, could you give us a status of  
3 where we stand on the unresolved issues that  
4 have come out of the interaction between SC&A  
5 and NIOSH concerning the first 20 case -- dose  
6 reconstruction reviews?

7 **DR. NETON:** Well, I can't speak -- do you want  
8 me to speak to the AWEs, as well? I think it  
9 would be best for this meeting to talk about  
10 the ones that are non-AWEs, the 15 that are not  
11 related to Bethlehem Steel or -- or Huntington.  
12 We can talk about those later.

13 But of the 15 that are listed here, I don't  
14 believe that there are any unresolved issues  
15 with SC&A at this point. We are working  
16 through a list of 13 action items that we've  
17 established to go back and -- and relook at  
18 these cases and -- and change our procedures or  
19 policies, as appropriate. We don't have that  
20 formally published, but we have a team working  
21 on that. We have actually looked at all 15  
22 cases and evaluated the change in  
23 compensability based upon the issues raised by  
24 SC&A. We don't believe any of those cases are  
25 going to change compensability based on a

1 modification based on the SC&A findings.

2 **DR. WADE:** Okay. So at least from your report,  
3 intellectually you've reached closure with SC&A  
4 and NIOSH has taken now the lessons learned and  
5 is applying them to the process of dose  
6 reconstruction.

7 **DR. NETON:** Yes.

8 **DR. WADE:** Okay.

9 **DR. NETON:** With the exception of the AWEs and  
10 possibly the Savannah River site profile issue  
11 that was just discussed by John and Mark with  
12 the -- the high five issue.

13 **DR. WADE:** I mean I just think in a world where  
14 there's all kinds of reason to question just  
15 about everything -- I mean this is a good  
16 experience we've had. I think the audit  
17 contractor's come in and looked at NIOSH's work  
18 and reported that it found no issues where  
19 compensability would be modified, although  
20 there are all kinds of caveats, and NIOSH has  
21 taken to heart SC&A's comments and is looking  
22 at improving its own procedures. I think  
23 that's worthy of note.

24 **DR. ZIEMER:** Yes. Jim, thank you for updating  
25 us on that. Now I want to ask the question, in

1 terms of this document, what -- what the impact  
2 is here then. We have a number of items in  
3 here where we're showing, for example, NIOSH  
4 and SCA agreed to resolve this issue; NIOSH and  
5 SCA agreed to resolve this issue within the  
6 site profile review. A lot of those are that  
7 way. Let's see -- NIOSH and SC&A agreed to  
8 resolve this general issue. So all -- all of  
9 these that are -- that show here like it's  
10 going to be done, have been completed. Is that  
11 how I'm to understand it?

12 **DR. NETON:** I don't know that they've been  
13 completed. We've come to an understanding  
14 between us and SC&A.

15 **MR. GRIFFON:** I think also case one through  
16 five are the AWE ones, yeah. So six on is  
17 really what you're looking at. Right?

18 **DR. NETON:** And I don't have first-hand  
19 information. Stu Hinnefeld has been working  
20 closely with SC&A on this, but my latest  
21 information from him is we have no outstanding  
22 issues. We believe some of the language may --  
23 may be a little -- we may have expressed things  
24 a little differently language-wise, but  
25 fundamentally we're -- we're in agreement.

1           **DR. ZIEMER:** But wherever it says NIOSH and  
2           SC&A agreed to resolve this issue --

3           **MR. GRIFFON:** I think we just want to know how  
4           --

5           **DR. ZIEMER:** -- or NIOSH agreed --

6           **MR. GRIFFON:** -- that was resolved.

7           **DR. ZIEMER:** -- to further investigate --

8           **MR. GRIFFON:** That's --

9           **DR. NETON:** I don't have that level of detail  
10          here at this meeting, but I could certainly get  
11          that to you if you'd like a --

12          **DR. ZIEMER:** Or NIOSH agreed to look into this  
13          further, all of these things have now been --  
14          I'm just really asking if this needs to be  
15          updated before --

16          **MR. GRIFFON:** Yeah, I think we -- if we can ask  
17          NIOSH to report to us --

18          **DR. NETON:** We can put together a report that  
19          outlines where -- how we've come to agreement  
20          on these issues, certainly.

21          **DR. WADE:** John, you were going to speak?

22          **DR. MAURO:** John Mauro. Yes, I just wanted to  
23          -- it's important to point out, I noticed that  
24          in one through five on the list here, you'll  
25          see a lot of places where it says NIOSH and

1 SC&A agree to resolve this issue. I think by  
2 way of an example, it would be very helpful to  
3 know what does that really mean. In one  
4 particular case it talks about, for example,  
5 this business of the triangular distribution  
6 versus a lognormal distribution.

7 **DR. ZIEMER:** Uh-huh.

8 **DR. MAURO:** The way that stands right now is  
9 that yes, as you know, our position is  
10 scientifically we were critical of the use of  
11 the triangular distribution. As my  
12 understanding is right now is that NIOSH is  
13 taking a closer look at perhaps replacing or  
14 supplementing their TBD with a lognormal  
15 distribution of some form, which would go  
16 toward a resolution of this issue. Now  
17 certainly there's a lot of the devil in the  
18 details. Okay? How do you build that, how do  
19 you use it, all of which is, I believe -- and  
20 right now NIOSH is working their problem -- I  
21 presume the day will come when NIOSH will put  
22 forth their position, their addendum, regarding  
23 all of the matters that we have been  
24 discussing. And at that point we'll have a  
25 better sense of how much closure we have in

1 fact achieved. But there's no doubt that at  
2 least based on the last meeting I attended  
3 where Jim gave a presentation -- in Buffalo --  
4 it's clear that each of the major issues are  
5 very much on the table and NIOSH is working  
6 with them.

7 **DR. ZIEMER:** But it sound to me, though, from  
8 what's been said, that actually there's a kind  
9 of closure on each item has been achieved. Is  
10 that a correct statement? I mean we're not  
11 looking for another iteration or waiting for  
12 something to be resolved at this point, is that  
13 -- is that correct?

14 **DR. WADE:** I think that's correct, yes.

15 **DR. ZIEMER:** So what we would need for our kind  
16 of wrap-up would be the up-dating of this  
17 document so that it coincides with what we've  
18 heard here. And I'm not sure -- it seems to me  
19 that something could be done pretty easily,  
20 maybe even this evening, just -- it'd be a  
21 matter of sitting down and -- with maybe Jim  
22 and -- some of these it is it's going to happen  
23 in the future or it has happened. Right? So  
24 whatever we end up with here does not  
25 necessarily have to talk about things that need

1 to be resolved as yet. Is that correct? That  
2 some level of agreement has been reached  
3 between the groups and -- but we need to  
4 identify what that is.

5 **MR. GRIFFON:** Yeah.

6 **DR. ZIEMER:** We have the response here, but I'm  
7 even wondering then if we need something that  
8 describes the resolution of the issue. Would  
9 that be helpful, or do we need that in here?

10 **DR. DEHART:** Is that cutting too deep for --

11 **DR. ZIEMER:** I don't know, I'm asking --

12 **DR. DEHART:** -- (unintelligible) report out? I  
13 don't think so. What I would suggest is that  
14 what -- if you can do it in a few sentences,  
15 what the issue was and then state that that's  
16 been resolved.

17 **DR. ZIEMER:** Well, we have -- we have the  
18 findings, we have NIOSH's response, it's --  
19 it's the -- the action is, you know, what was  
20 agreed to? It's -- it's a sentence or two, I  
21 think, and --

22 **MR. GRIFFON:** Yeah.

23 **DR. ZIEMER:** Because we -- I think we want to  
24 know that. The Board's going to want to know  
25 that, what is the resolution of this issue.

1 Right?

2 **MR. GRIFFON:** Right.

3 **DR. ZIEMER:** Do you all see that as being part  
4 of the -- of the closure?

5 **MR. GRIFFON:** Oh, yeah, yeah.

6 **DR. DEHART:** If it can be kept brief.

7 **DR. ZIEMER:** I want to get a sense of where we  
8 are here, so what would need to happen would be  
9 -- I think the only change on the SC&A summary  
10 sheet is how that's characterized on the wrap-  
11 up. Right? And that can be easily...

12 **DR. BEHLING:** We will make some changes there,  
13 but I think with regard to closure I am not  
14 sure I know what can be done. Obviously we  
15 have very minor deficiencies. There's what, 42  
16 or 46 minor deficiencies, and I suppose one  
17 would be to go back and make the changes to the  
18 dose reconstruction report. But as we already  
19 pointed out, it's not one that's going to  
20 change the dose significantly or anything else.

21 **DR. ZIEMER:** Well -- but we're not asking --  
22 we're simply summarizing --

23 **DR. BEHLING:** Yeah.

24 **DR. ZIEMER:** -- what you found, and that's what  
25 you found. If NIOSH wants to make changes,

1           that's going to be their -- their job. But I'm  
2           just looking at what -- what our wrap-up report  
3           is going to have. It's going to include this  
4           information, I believe, with whatever minor  
5           modifications are made to the form. It's going  
6           to include an updated version of this findings  
7           compilation and the resolution thereof. And  
8           then the final part of it I believe then is a -  
9           - what you described, Mark, as a cover sheet  
10          which is a narrative that, in essence,  
11          summarizes what these all mean. Is that  
12          correct?

13          Is that a narrative that we would like to try  
14          to generate here as we sit, or do you want to  
15          assign this to a drafting person or persons for  
16          the evening?

17          **MR. GRIFFON:** I think it -- well, it might be  
18          easier to draft something tonight or -- unless  
19          we can get a -- I think it'd be easier to draft  
20          tonight.

21          **DR. WADE:** Do you have --

22          **MR. GRIFFON:** Maybe we can get the major  
23          concepts that we want to capture in it, and  
24          then draft the text tonight.

25          As far as filling out that matrix, that's a

1 little more involved of an effort, especially  
2 since it requires going through and finding all  
3 the findings that weren't necessarily  
4 controversial.

5 **DR. ZIEMER:** I don't know that we need that  
6 matrix tonight. I'm thinking of something that  
7 -- we're going to present something to the  
8 Board --

9 **MR. GRIFFON:** Right.

10 **DR. ZIEMER:** -- for action. And what I'm  
11 suggesting is that that will include -- if this  
12 is what we agree to, I'm -- I'm not  
13 unilaterally declaring this; I'm throwing this  
14 out. This would include the SC&A summary, with  
15 whatever minor modifications they make in the  
16 headings of this to make it clear that it's a -  
17 - it's a roll-up of the individual sheets; an  
18 update of this summary of findings and the  
19 resolutions thereof; and then this cover sheet  
20 that we talked about which will enumerate the  
21 significance of the findings --

22 **MR. GRIFFON:** And the areas for improvement.

23 **DR. ZIEMER:** -- and the areas for improvement.  
24 And this may be a one or two-pager, whatever it  
25 is.

1           **MR. GRIFFON:** Yeah.

2           **DR. ZIEMER:** It'd be some sort of a narrative.

3           **MR. GRIFFON:** Uh-huh.

4           **DR. ZIEMER:** But with -- and we'd want to make  
5           sure that we addressed the bullet points that  
6           are set forth in our methodology sheet.

7           **MR. GRIFFON:** Right.

8           **DR. ZIEMER:** Now, that's -- that's what I'm...

9           **MR. GRIFFON:** And I was -- and I am envisioning  
10          this -- this one or two-page part in front of  
11          the tables as sort of a -- I mean I think it's  
12          worth putting a little background in there,  
13          too, you know -- 20 -- we reviewed 20 cases,  
14          five AW-- you know, this many AWEs, this many -  
15          -

16          **DR. ZIEMER:** Uh-huh.

17          **MR. GRIFFON:** -- you know, we've -- and the  
18          primary -- the major conclusion that none -- we  
19          don't -- our subcon-- our contractor found that  
20          none -- they don't believe any would have --  
21          would have been pushed over the 50 percentile.

22          **DR. ZIEMER:** Right.

23          **MR. GRIFFON:** But then go on to say, you know,  
24          these were sampled from, you know, early cases  
25          and the POCs ranged -- I mean even a little

1 background information about what we were  
2 selecting from, you know --

3 **DR. ZIEMER:** Sure, sure.

4 **MR. GRIFFON:** -- I'm talking a paragraph, you  
5 know, yeah.

6 **DR. ZIEMER:** Yeah. Is that agreeable to  
7 everybody? Give him some ideas here for a  
8 draft effort this evening. So the updating of  
9 these other two pieces would need to occur  
10 before the Board meeting.

11 **MR. GRIFFON:** Right.

12 **DR. ZIEMER:** We would understand that we would  
13 be recommending to the Board that the final  
14 report include this cover page, plus these two  
15 -- the support documents. Is that -- is that  
16 agreeable to the group?

17 **DR. DEHART:** This would be --

18 **DR. ZIEMER:** You want to formalize this in the  
19 form of a motion? Or is -- are we going to  
20 take it by consent that any objections --  
21 without objection, we'll proceed in that way.  
22 We would be looking for a volunteer writer or  
23 two for working on the summary sheet for this  
24 evening. Mark, are you volunteering to --

25 **MR. GRIFFON:** Yeah, I'll draft -- yeah.

1           **DR. DEHART:** I'll give him a hand.

2           **DR. ZIEMER:** Roy will assist you. And I'm  
3 certainly around --

4           **MR. GRIFFON:** Okay.

5           **DR. ZIEMER:** -- you know, if you're not -- if  
6 you're not sure about the dangling participles,  
7 I'll be around.

8           **MR. GRIFFON:** I'm sure you'll find them for me.

9           **DR. WADE:** You know, in terms of the heavier  
10 task, which is the -- getting this document  
11 resolved, maybe -- Jim, could you come to the  
12 microphone for us so we could have a dialogue  
13 as to how we're going to -- just -- it'd be  
14 good if we get an agreement as to how we're  
15 going to do that, so let's just talk as to how  
16 that's going to happen so that it can be done  
17 in time for the next Board meeting.

18           **DR. NETON:** Okay. I'm not sure what --

19           **DR. ZIEMER:** Well --

20           **MR. GRIFFON:** Well, I guess I --

21           **DR. ZIEMER:** -- what we're wondering is -- we  
22 have a number of items here that currently  
23 indicate they're going to be resolved.

24           **DR. NETON:** Right.

25           **DR. ZIEMER:** And you've told us basically they

1           have been, and I think we're just wanting to  
2           update that and say this is how it's been  
3           resolved.

4           **DR. NETON:** Right, so we can -- we can update  
5           this?

6           **DR. ZIEMER:** Yeah, it'll be a sentence or two,  
7           and it may be even a separate column, a  
8           resolution or something like that.

9           **DR. NETON:** Yeah, we can do that and -- before  
10          the next Board meeting, if that's --

11          **DR. ZIEMER:** That's really what we're asking.

12          **DR. WADE:** But let's talk -- but -- you can do  
13          it, but then it needs to come to this group,  
14          and you need to take ownership of it and make  
15          sure it's adequate. I just wouldn't want to  
16          come to the next Board meeting and find that we  
17          didn't have what we thought we needed. So  
18          there needs to be an iterative step. If you  
19          can put something together and then share it  
20          with the members of this subcommittee, then if  
21          you guys are comfortable with it then we're  
22          done. If you're not, then we need to do an  
23          iteration.

24          **DR. NETON:** The question is then how soon  
25          before the Board meeting -- we have a number of

1 competing and conflicting demands on our time.  
2 I don't expect that this is going to be a -- a  
3 huge effort, to be honest. But if I could get  
4 some sense for how much advance notice -- ten  
5 days before the Board meeting?

6 **DR. ZIEMER:** Well, if we had it a week before,  
7 that would be adequate, I would think, would it  
8 not?

9 **DR. NETON:** We'll certainly do our best to get  
10 -- as soon as we're done we're going to send it  
11 over, but a week before, if that's suf--

12 **DR. WADE:** Well, let's say ten days.

13 **DR. NETON:** Ten days before.

14 **DR. WADE:** And you would then send that to all  
15 the members of the subcommittee.

16 **DR. NETON:** Right. So that would be by the  
17 15th of April time frame. Okay.

18 **DR. WADE:** Thank you, Jim.

19 **DR. NETON:** Okay.

20 **MR. GRIFFON:** Get your taxes in first.

21 **DR. ZIEMER:** Now are there any issues relating  
22 to this that we have not captured? Anyone...

23 **DR. WADE:** I have some general issues.

24 **MR. GRIFFON:** Okay, go ahead. As far as  
25 procedural or what do you --

1           **DR. ZIEMER:** No, items that we want to include  
2           in the report that we haven't captured. Okay.

3           **DR. DEHART:** The only thing that comes to mind  
4           is any direction which we have given the  
5           contractor since we've begun to see the reports  
6           that they will be required to continue to  
7           follow. In other words, the results of the --  
8           of the audit have resulted in our making some  
9           recommendations on how that's to be prepared.

10          **DR. ZIEMER:** Right, and this is the general  
11          scheme issue of how we proceed to -- go ahead.

12          **DR. WADE:** I was just going to say what Dr.  
13          DeHart -- I think it would be worth us spending  
14          some time talking about lessons we've learned  
15          to this point and things we would like to  
16          institutionalize, be it in SC&A's work or the  
17          Board's work or NIOSH's work. I think it's  
18          good to pause and to talk about those things,  
19          particularly while it's fresh in all of our  
20          minds 'cause, again, the purpose here is to get  
21          better. And so I think that needs to happen  
22          sometime this afternoon. Maybe now is the  
23          time, maybe later.

24          **DR. ZIEMER:** Well, this is certainly the time  
25          to do that. I'm asking if we're all set on the

1           general report itself for the first 20 cases,  
2           and then that'll come back to us tomorrow  
3           morning to act upon.

4           As far as the general issue of going forward, I  
5           think we've already institutionalized the idea  
6           that -- number one, that the report will go to  
7           NIOSH for factual checks right at the front  
8           end. And we also have, as a general process  
9           involving the individual Board members, the  
10          sub-teams on the initial discussions with SC&A.  
11          I'm talking about dose reconstructions now.

12         **DR. MAURO:** Yes, we are very much into what I  
13         would call the expanded review mode of  
14         operation.

15         **DR. ZIEMER:** Right.

16         **DR. MAURO:** Our work products -- namely, for  
17         example, the next set of 18, for example, will  
18         go through the same process that the first 20  
19         went through, namely we will deliver a draft  
20         version for factual accuracy review. There  
21         will be an exchange that I presume will follow  
22         exactly the same pattern that the first 20  
23         followed, perhaps a list of commentaries,  
24         observations, questions, issues from -- from  
25         NIOSH. We'll meet to discuss all of them, then

1 we will finalize our report that will reflect  
2 that expanded review cycle. So we're in a  
3 pattern that, yes, for the task four dose  
4 reconstruction process, that is the mode of  
5 operation that we are operating under right  
6 now.

7 **DR. ZIEMER:** Uh-huh.

8 **DR. WADE:** And John, while -- while you're  
9 still there -- now we talked about possibly  
10 your drawing out this kind of information from  
11 your review and providing --

12 **DR. ZIEMER:** Can you generate that as part of -

13 -

14 **DR. MAURO:** We certainly can, if that's what  
15 you would like, and it would be very easy for  
16 us to do. It would reflect basically -- in  
17 effect, it would be our understanding of what  
18 was resolved during the expanded review cycle,  
19 and it would basically take exactly the same  
20 form that Mark's write-up has, except it would  
21 have a column in it that would indicate how the  
22 issue was resolved by SC&A. That is, we did  
23 resolve this issue, see page so-and-so and this  
24 is how it was resolved. In other words, we  
25 could actually achieve closure.

1           If it means -- it also would indicate --  
2           perhaps there's an action item. For example,  
3           let's say we're talking Bethlehem Steel. If  
4           there's still an open item related to  
5           triangular distribution, we will say right now  
6           this is an open item currently being reviewed  
7           by NI-- so this will be our understanding is  
8           that this particular issue has not yet been  
9           closed but it's an action item that's currently  
10          being looked at by NIOSH. This in effect would  
11          be a letter from us to the Board reflecting our  
12          understanding of the status of each of the  
13          items that were originally listed by NIOSH  
14          during the expanded review cycle, and that's  
15          very easy for us to do while we're writing our  
16          report.

17         **MR. GRIFFON:** But -- but actually -- actually I  
18         think -- this matrix -- I know this was done  
19         from the expanded review and NIOSH's sort of --  
20         the ones that they were questioning. But I  
21         think what I'd like to see in the next cycle is  
22         for you to create this matrix and sort of just  
23         fill in that first column initially as we start  
24         the process, so you'd just list your --

25         **DR. ZIEMER:** And you could still

1 (unintelligible) as you go.

2 **MR. GRIFFON:** -- list your findings in a table,  
3 and then -- and then we'll work them from  
4 there, and as --

5 **DR. MAURO:** I'm not following you, I'm sorry.

6 **DR. ZIEMER:** Mark's saying when you first do  
7 your initial report -- well, no, they would  
8 have had the factual accuracy thing, but you  
9 wouldn't necessarily have the NIOSH responses -

10 -

11 **MR. GRIFFON:** Right.

12 **DR. ZIEMER:** -- to your findings.

13 **DR. MAURO:** That's correct, it would be our --  
14 in other words, the way -- what I just  
15 characterized --

16 **DR. ZIEMER:** This column would be almost blank  
17 to start with.

18 **DR. MAURO:** Well, the first --

19 **DR. ZIEMER:** No, the second column here.

20 **DR. MAURO:** Okay.

21 **DR. ZIEMER:** You wouldn't have the NIOSH  
22 response when you first issued your report.

23 **DR. MAURO:** That's correct. We would have --  
24 if we go through the process we just described  
25 -- okay? -- we would -- we would be going into

1           -- you would -- we would have been through the  
2           first phase where we delivered our draft. We  
3           would have had our meetings with NIOSH  
4           regarding factual accuracy review. We will  
5           have -- SC&A will have had before us the first  
6           column, because that would be provided to us  
7           prior to the meetings of -- the factual  
8           accuracy meetings, so we will have all that.  
9           Then --

10          **MR. GRIFFON:** Yeah, but I'm saying you provide  
11          that.

12          **DR. MAURO:** Oh, the --

13          **MR. GRIFFON:** I'm saying -- asking if you could  
14          provide that first column going in, and then if  
15          during the factual accuracy review it gets  
16          thrown out for factual accuracy basis, then you  
17          show that in one column.

18          **DR. MAURO:** No, I think NIOSH provides the  
19          first column.

20          **MR. GRIFFON:** That's what happened -- that's  
21          what happened here.

22          **DR. BEHLING:** I think I understand Mark's  
23          intent here and that's to simplify the issue  
24          and also make it more comprehensive as --

25          **MR. GRIFFON:** Right.

1           **DR. BEHLING:** -- in this case we found we only  
2           dealt with the issues that were being contested  
3           by NIOSH as opposed to those --

4           **MR. GRIFFON:** Right, I want to have all --

5           **DR. BEHLING:** -- that were the complete  
6           picture, so what I understand you to mean is  
7           that summary of findings is what we will  
8           introduce as part of our initial draft that  
9           will actually precede or coincide in time with  
10          our initial draft, before we even get any  
11          comments from NIOSH.

12          **MR. GRIFFON:** Right.

13          **DR. BEHLING:** And then after meeting with NIOSH  
14          we can then sit down and saying well, item  
15          number one, they concede or we were wrong --

16          **MR. GRIFFON:** Right.

17          **DR. BEHLING:** -- or this is a difference of  
18          opinion that needs really no resolution.

19          **DR. ZIEMER:** Otherwise some of these are  
20          dropping out and we don't --

21          **DR. MAURO:** We don't see them.

22          **DR. BEHLING:** Yes.

23          **DR. ZIEMER:** -- we don't see them.

24          **DR. BEHLING:** Yes. Yes, yes. And so this is  
25          nothing more than a facsimile of the dose

1 reconstruction report review.

2 **MR. GRIFFON:** Right.

3 **DR. BEHLING:** We will simply itemize and  
4 perhaps summarize in very brief fashion into  
5 this first column, that's all.

6 **DR. ZIEMER:** Right. And then each -- as each  
7 item is resolved or responded to, you simply  
8 fill one column --

9 **MR. GRIFFON:** (Unintelligible) across the  
10 (unintelligible).

11 **DR. BEHLING:** And that should be no problem.  
12 We'll have that then available and --

13 **MR. GRIFFON:** Right.

14 **DR. BEHLING:** -- we'll just then fill in the  
15 blanks after the meeting.

16 **MR. GRIFFON:** Right, right.

17 **DR. BEHLING:** Or as the meeting progresses.

18 **DR. ZIEMER:** So in essence it's the same  
19 process, but we would be tracking it a little  
20 more formally so that we can really see how  
21 each item was dealt with and you can just go  
22 across and it's resolved or whatever. Or  
23 dropped away --

24 **MR. GRIFFON:** Yeah.

25

1           **DR. ZIEMER:** -- for factual accuracy. Okay.  
2           Does that seem reasonable? Anybody...

3           **DR. WADE:** I have two more general issues, and  
4           they come under the Board heading of time and  
5           money. I think it would be good for us to talk  
6           about how long it would be reasonable for us to  
7           expect it would take to come to where we are  
8           now on the first 20 on any group of dose  
9           reconstructions. I mean I think we need to do  
10          a better job of realistic -- realistically  
11          planning what we're going to do at Board  
12          meetings. We are very overly-optimistic in  
13          terms of what we think we're going to do, and  
14          then we find ourselves rushed. And I think  
15          while we're here and we have some time, it  
16          wouldn't be a bad idea to talk about -- from  
17          the minute we pick the next number of cases --  
18          when would we think it would be appropriate to  
19          try and come to a Board meeting and reach  
20          closure on that -- that series of review.

21          **DR. ZIEMER:** Let me kick this off and we'll  
22          have to hear from John, too, but we all already  
23          have our second group of 20 -- which is really  
24          18 -- and our third group of 20 -- which is  
25          really 22, I believe. And both of those have

1           been impinged upon by other events, such as the  
2           urgency of the Special Exposure Cohort  
3           petitions and -- and our contractor has tried  
4           to accommodate us by readjusting the -- with  
5           the urgency of the times. So -- and that  
6           readjusting has continued with the change in  
7           the Iowa Technical Basis Document and -- and  
8           others. So the fact that there's been a delay  
9           in the second 20, of course, is -- we can't lay  
10          at the feet of our contractor. But I guess at  
11          this point maybe we need to look at what --  
12          what -- with all the things that have impinged  
13          on us, where do we stand on the second 20, and  
14          then -- that is, the second 18 -- and the third  
15          group, where do we stand on those?

16         **DR. BEHLING:** Well, I'm trying to do a number  
17          of things, some things --

18         **DR. ZIEMER:** Right, and I understand.

19         **DR. BEHLING:** -- obviously reading and  
20          reviewing the Iowa TBD, but at this point I can  
21          assure you that we will have a draft report for  
22          the second 18 cases probably before the end of  
23          next month so that -- end of April, it should  
24          be the target date.

25         **DR. ZIEMER:** That would be the first draft?

1           **DR. BEHLING:** Yes. And we will also try to do  
2 this summary table that Mark has been asking us  
3 to do, and we will have that available for your  
4 review, as well as NIOSH's review, sometime at  
5 the end of this month, assuming that there are  
6 no additional tasks handed to me by John. But  
7 I think we're well on our way. I think at this  
8 point I'm trying to do these things --

9           **DR. ZIEMER:** What would be the end of this  
10 month? What --

11          **DR. BEHLING:** The end of next month, end of  
12 April.

13          **DR. ZIEMER:** End of April for the next 18.

14          **DR. BEHLING:** Next 18, yes, yes.

15          **DR. ZIEMER:** And then you said something else  
16 was going to be at the end of this month, or  
17 was that a slip?

18          **DR. BEHLING:** No, no, that was a slip and I --  
19 we had intended to have that available at the  
20 end of this month originally, and then asked  
21 for a reprieve for one-month period as a result  
22 of the Iowa case. And then at this point I  
23 think we will certainly be in a position to  
24 satisfy the end of April as a deadline for the  
25 next 18.

1           **DR. WADE:** So at the end of April -- excuse me,  
2           at the end of April we would get the first  
3           product -- could you just walk us through,  
4           Hans, how long it would take to get to the end  
5           of the process for that 18, from your point of  
6           view?

7           **DR. BEHLING:** Again, I think we're getting  
8           smarter as time goes by. I think we will have  
9           a much more efficient process by which we  
10          resolve issues between us and NIOSH when they  
11          crop up. I think we all learn from our  
12          experience, so right now I think we perhaps  
13          need to get some additional information.  
14          I think there may be a discussion that we will  
15          also have later on, either today or tomorrow,  
16          and that is the issue of workbooks and Excel  
17          sheets and so forth and other items that we now  
18          know are an integral part of the dose  
19          reconstruction process. And for us to become  
20          much more efficient in reviewing and auditing  
21          those particular claims that made use of these  
22          workbooks and spreadsheets, we're going to  
23          probably be asking the NIOSH people to provide  
24          us with some training, because that will  
25          clearly expedite.

1           And some of these dose reconstruction require  
2           an extensive review and I've elected to do most  
3           of that myself. A case in point was the Iowa  
4           dose reconstruction case I looked at just  
5           yesterday, and again it was fortuitous in a  
6           sense where I was also in a position to have  
7           already reviewed the revised TBD for Iowa,  
8           which also obviously therefore saved me the  
9           time for reviewing it in -- in context for this  
10          particular -- but I also have to go now back  
11          and review the original because this particular  
12          dose reconstruction report was done under the  
13          old version, the Rev. 00.  
14          So at times it's very time-consuming and I know  
15          that we've been questioned about our  
16          efficiency. But for a single case such as this  
17          one here in question, I had to review two  
18          independent TBDs, the original Rev. 00 and the  
19          revised Rev., in order to understand what this  
20          dose reconstruction entailed and how it may  
21          change as a result of the revision to that TBD.  
22          So for a single case I had to review really two  
23          TBDs, and at times that does tend to really  
24          take a big chunk out of your time.  
25          I'm hoping that, as I said, I will still be in

1 a position to review all the other TBDs that  
2 are part of the next 18, and they include NTS  
3 and INEEL and, as I said, they do require some  
4 time. So I'm hoping that I'm not biting off  
5 more than I can chew in telling you that I will  
6 be there to -- to give you a finished report,  
7 but I will certainly do my best.

8 **DR. ZIEMER:** Okay, let me clarify. So the end  
9 of April let's say you have that draft out with  
10 your findings. Then NIOSH will look at that --  
11 now at that point a factual review has or  
12 hasn't -- has not been done?

13 **DR. BEHLING:** No, it will not have been done.

14 **DR. ZIEMER:** Okay. Then NIOSH does the factual  
15 review --

16 **DR. BEHLING:** Uh-huh.

17 **DR. ZIEMER:** -- and -- and --

18 **MR. GRIFFON:** Could I ask --

19 **DR. ZIEMER:** -- that --then that --

20 **MR. GRIFFON:** -- to back up one step, is there  
21 -- are we going to have the workgroup  
22 conference call --

23 **DR. BEHLING:** Yes.

24 **MR. GRIFFON:** -- like we did last time?

25 **DR. BEHLING:** Yes.

1           **MR. GRIFFON:** Right.

2           **DR. BEHLING:** Yes.

3           **DR. ZIEMER:** Yes.

4           **MR. GRIFFON:** That happens first. Right?

5           **DR. BEHLING:** And that means we have to  
6 obviously do this well in advance because we  
7 need the --

8           **DR. ZIEMER:** You've got to schedule --

9           **DR. BEHLING:** -- initial telephone -- has to  
10 take place before we even write the report, so  
11 as I said, I've got my work cut out and I'm  
12 going to have to probably finish most of my  
13 reviews within the next two weeks or so in  
14 order for us to achieve that timetable.

15           **DR. ZIEMER:** Then NIOSH needs some time to do a  
16 factual review and -- amidst everything else,  
17 and I supposed in fairness Jim would be the one  
18 to ask, but what -- what's -- or -- what's  
19 reasonable from your point of view if they  
20 deliver a document -- you know, here's the --  
21 here's our review of 18 cases; what happens  
22 next?

23           **DR. NETON:** Well, if it's -- if it's --

24           **DR. ZIEMER:** If it's just the factual review.

25           **DR. NETON:** The factual review, we're not

1           looking at it from a technical perspective  
2           necessarily.

3           **DR. ZIEMER:** Right.

4           **DR. NETON:** I think we'd like to have a  
5           business week to look at it.

6           **DR. ZIEMER:** Uh-huh.

7           **DR. NETON:** I mean these are long documents. I  
8           mean they're typically well in excess of 100  
9           pages, more typically closer to 200, so just to  
10          get someone's eyes on it and to look at it, I  
11          think a week is -- is -- could (unintelligible)  
12          --

13          **DR. ZIEMER:** So then you get the factual review  
14          back, then what happens next?

15          **DR. MAURO:** Could I just back up one second?

16          **DR. ZIEMER:** Yeah.

17          **DR. MAURO:** The fact that we're going through a  
18          factual review process, I question whether we  
19          need the telephone review process. Let me --  
20          I'd like to pose this to the Board. As you  
21          know, one of the things we did on the first set  
22          is that after we performed our first review of  
23          the 20 cases -- and we actually didn't really  
24          write up our audit report yet, but we had each  
25          author of -- or who was working, we had this

1 telephone conference call where each -- where  
2 two members of the Board were -- were in  
3 conference to hear our story.

4 **DR. ZIEMER:** Right.

5 **DR. MAURO:** Okay? And it was a round-table  
6 discussion. Now that was one of the milestone  
7 steps in the process, and the reason -- if you  
8 recall -- that was introduced was to avoid a  
9 situation where the first time the Board would  
10 see the document would be during the next Board  
11 meeting. Okay? This was an opportunity for  
12 the Board to be part of the process, to have a  
13 preview of where things were going and be  
14 engaged early.

15 I would contend that now that we have the  
16 expanded review process in place whereby we  
17 deliver a draft report to the Board and to  
18 NIOSH, and then we hold this meeting whereby it  
19 is basically a working draft, it is recorded,  
20 do we -- do we still want to go through the  
21 telephone review step? Because I think the  
22 expanded review cycle step really is --  
23 accomplishes the same thing. And it would help  
24 -- preparing for that round-table meeting,  
25 getting everybody together, is a -- it's time-

1           consuming. It would probably lose a week  
2           'cause each person is -- tries to get their  
3           thoughts together for the presentation.

4           I'd sooner have everyone working on preparing  
5           their draft report, getting the draft set of 18  
6           cases into your hands as a working work product  
7           and into the hands of NIOSH, and then have our  
8           expanded review cycle go on for -- for how long  
9           it's necessary to go through that process.

10          This will give the Board and NIOSH an  
11          opportunity to see the document -- which is  
12          almost like redundant to the telephone  
13          arrangement. I don't know whether you would  
14          agree with that or not.

15          **DR. ZIEMER:** In some respects it is the -- I  
16          think the problem is the following: That each  
17          of these cases is fairly extensive, when you  
18          dig into the files.

19          **DR. MAURO:** Yes.

20          **DR. ZIEMER:** And it would be difficult, for  
21          example, if we put on the shoulders of two or  
22          three Board members the job of reviewing all 20  
23          cases in preparation for that meeting, versus  
24          having individual teams where Roy is  
25          responsible for only three cases -- and

1           likewise I think each of us.

2           **DR. MAURO:** I understand.

3           **DR. ZIEMER:** We don't just get paid nearly as  
4           much as you guys do -- we don't think we do.  
5           That's really immaterial. I couldn't help  
6           saying it, though.

7           But I think -- I think it's more that issue of  
8           to what extent can we involve the full Board in  
9           the process in their ability to look at some  
10          cases in depth, versus having a few Board  
11          members cover all cases in less depth. That's  
12          -- that's the -- the Board can decide, I mean -  
13          - but I think that's sort of the nature of the  
14          issue. What do you guys think about the...

15          **DR. DEHART:** I certainly agree that it's  
16          important for the members of the Board to  
17          participate. The auditing procedure and policy  
18          as set up and -- is a Board function. We're  
19          required to have an audit. In that requirement  
20          I see it that we're required to participate.  
21          Now I don't know how many people participated  
22          in the phone conversations that were occurring  
23          in those reviews, probably some more than  
24          others, but I think it's important for each of  
25          us to have that opportunity.

1           **DR. MAURO:** That's fine. To go back to answer  
2 your question -- I'm sorry, I sort of diverted  
3 it for a minute 'cause it was a thought I had.  
4 Now your question was okay, we -- let's say the  
5 end of April we deliver to you the working  
6 draft -- well, it's between now and the end of  
7 April we'll have our telephone conference --

8           **DR. ZIEMER:** Right.

9           **DR. MAURO:** -- as we planned.

10          **DR. ZIEMER:** Right.

11          **DR. MAURO:** Then we will deliver a draft  
12 report. The draft report will look exactly  
13 like the final report --

14          **DR. ZIEMER:** Right.

15          **DR. MAURO:** -- except we're going to be  
16 delivering one more thing with that. This  
17 would be a letter, which would be -- which  
18 would be of the form similar to Mark's form  
19 except, to make life a little easier for  
20 everyone, in the first column we will identify  
21 every issue that we've -- and sort of like in  
22 summary form --

23          **MR. GRIFFON:** Right.

24          **DR. MAURO:** -- so that rather than reading 200,  
25 300 pages, you can actually go down and say

1 here's the issues that we found out. And  
2 somehow as best we can -- I'm not quite sure --  
3 capture each finding in some succinct way  
4 that's tractable, perhaps even could be put  
5 into a database.

6 **DR. ZIEMER:** Okay.

7 **DR. MAURO:** And then I presume that -- so then  
8 -- so that would be delivered. That will be  
9 delivered to the Board and to NIOSH as the  
10 first step in the expanded review cycle. Then  
11 the cycle begins.

12 **DR. ZIEMER:** Then NIOSH has a week -- or  
13 whatever it takes; we're not throwing a  
14 timetable on them, but they're estimating that  
15 about a week later they come back to you and  
16 they say here's the following factual errors.  
17 What happens now?

18 **DR. MAURO:** Right. They -- they send to us, as  
19 they did before -- here is what we -- on each  
20 one of the items that you've identified, here  
21 is our position regarding those items. We  
22 think you're in error here. We think -- we're  
23 -- in other words, that -- that would be the  
24 next column, so therefore --

25 **DR. ZIEMER:** Wait, wait, wait, I'm only talking

1 factual check here now, not -- not dealing with  
2 issues raised. You know, Jim's group says wait  
3 a minute, you guys have the wrong dataset here  
4 or what -- what kind of things do we find in  
5 the factual?

6 **DR. NETON:** I mean there may be issues like  
7 using procedures that have been superseded or  
8 out of date --

9 **DR. ZIEMER:** Oh, okay, right.

10 **DR. NETON:** -- or things -- things of that  
11 nature.

12 **DR. ZIEMER:** Yeah, at this point NIOSH is not  
13 debating the merits of findings. I think  
14 they're only checking for factual accuracy.  
15 And I'm saying once you get that information  
16 back, what -- then you make some modifications.  
17 Say oh, okay, well, this may have an effect on  
18 this finding or whatever, but you'll --

19 **DR. MAURO:** Exactly, then we're in what I call  
20 the home stretch. Now we have written material  
21 back from NIOSH which itemizes their -- the  
22 outcome of their factual review. Okay?

23 **DR. ZIEMER:** Right.

24 **DR. MAURO:** But then, what we did the last  
25 time, is we had a meeting.

1           **DR. ZIEMER:** Right.

2           **DR. MAURO:** Okay? And we had -- we actually  
3 had a meeting with NIOSH with -- with  
4 involvement of the Board.

5           **DR. ZIEMER:** Right.

6           **DR. MAURO:** Mark, you were there in January  
7 12th. Unfortunately I didn't make that  
8 meeting. I was in Buffalo with you.

9           **DR. ZIEMER:** Right.

10          **DR. MAURO:** But there's a -- then we go through  
11 each and every one --

12          **MR. GRIFFON:** Where there was an issue, right.

13          **DR. MAURO:** There -- yeah, that was -- that --  
14 in other words, right there we'll have on this  
15 -- in fact, quite frankly, on the same piece of  
16 paper we would have every issue that we've  
17 identified would all be there in some kind of  
18 succinct form. Right next to it, as  
19 appropriate, we will have NIOSH's statement  
20 regarding the factual accuracy of that  
21 position, finding, statement that we've made in  
22 column one. So column two, to varying degrees,  
23 will contain material that reflects NIOSH's  
24 perspective on each of the issues.

25          **DR. ZIEMER:** Right.

1           **DR. MAURO:** Okay. Then -- the next -- so now  
2 we -- we sit down and we -- we meet with NIOSH  
3 and -- and representatives of the Board. We  
4 record the meeting. We go over each and every  
5 item on the list. Then we're -- then SC&A goes  
6 back to the drawing board and we revise our  
7 working draft report and -- in a -- to be  
8 responsive --

9           **DR. ZIEMER:** Right, depending on --

10          **DR. MAURO:** -- to the factual --

11          **DR. ZIEMER:** You may say yes, we understand  
12 that position and we -- change, or NIOSH may do  
13 the same and -- and so there's another version  
14 that --

15          **DR. MAURO:** And then we deliver what I call to  
16 be the version you now have.

17          **DR. ZIEMER:** Right.

18          **DR. MAURO:** But there'll be one more thing  
19 that's going to come. That would be another  
20 column --

21          **DR. ZIEMER:** Right.

22          **DR. MAURO:** -- whereby it would be almost  
23 SC&A's perspective of how each issue has been  
24 closed or has not been closed. So it would be  
25 -- basically, as I understand it -- a three-

1 column table. Column one, SC&A's list of  
2 concerns, issues, findings; column two, NIOSH's  
3 perspective regarding factual accuracy  
4 regarding those issues; column three, SC&A's  
5 understanding of the status of each one of  
6 those issues as a result of the expanded review  
7 cycle that we went through, and that  
8 information would of course not only be  
9 captured on the table, but would be discussed  
10 in greater detail in the actual deliverable  
11 report, cross-referencing -- maybe this would  
12 be helpful; in that third column we would also  
13 cross-reference back to our report where that  
14 particular item is discussed.

15 **DR. ZIEMER:** To the extent possible, yeah.

16 **DR. MAURO:** To the extent we can do that. That  
17 seems to be a way of really moving the process  
18 toward closure.

19 **DR. ZIEMER:** Now how long after the factual  
20 accuracy check do you estimate -- assuming  
21 things are working smoothly, what's -- what's  
22 the turnaround time from factual accuracy to  
23 the next version, which is the --

24 **DR. MAURO:** Okay.

25 **DR. ZIEMER:** -- version that --

1           **DR. MAURO:** Our experiences -- that is, after  
2 we deliver the working draft, there is during  
3 that one-month period whereby there's the  
4 factual accuracy review process takes place.  
5 If that -- the -- at the end of that one-month  
6 period, we deliver, so it's a -- in other  
7 words, I think it's possible to go from  
8 delivery of the working draft to you folks and  
9 -- and NIOSH, sometime as early as possible  
10 following delivery we receive the write-up from  
11 NIOSH --

12           **DR. ZIEMER:** Yeah.

13           **DR. MAURO:** -- we hold our meeting, and then we  
14 probably need two weeks after the meeting to  
15 revise our report and deliver it. That is a  
16 little bit optimistic -- assuming that we don't  
17 have too many challenges -- but I think it's --

18           **DR. ZIEMER:** Well, wait -- then how long after  
19 the factual accuracy check before you would be  
20 ready for the meeting?

21           **DR. MAURO:** Okay. Aft-- I would say that once  
22 we get the material back from --

23           **DR. ZIEMER:** From NIOSH.

24           **DR. MAURO:** -- from NIOSH, within days, two --  
25 just give us a chance to read them --

1           **DR. ZIEMER:** Well, I mean --

2           **DR. MAURO:** -- for us to --

3           **DR. ZIEMER:** -- are we kind of at a week, two  
4 weeks, a month?

5           **DR. MAURO:** Within a week. In other words,  
6 within a week of when we receive NIOSH's  
7 commentary on our material, we probably should  
8 hold our -- our meeting.

9           **DR. ZIEMER:** Ready for a meeting.

10          **DR. MAURO:** We should have our meeting. And  
11 then after the meeting, we need two weeks to  
12 revise our report and deliver it. That would  
13 be fast-tracking it.

14          **MR. GRIFFON:** I think we might want to -- you  
15 might want to think about this time line a  
16 little and present it tomorrow, too, because I  
17 think -- I'm getting confused between your  
18 factual accuracy description and your -- and  
19 your other comments, NIOSH -- not the NIO-- the  
20 issues. I think --

21          **DR. ZIEMER:** The issues --

22          **MR. GRIFFON:** -- that middle step of  
23 (unintelligible) --

24          **DR. ZIEMER:** -- discussion occurs after the  
25 factual accuracy check.

1           **MR. GRIFFON:** I understand that. I think --

2           **DR. BEHLING:** I'm not sure -- I raise a  
3 question of whether or not factual accuracy  
4 even comes into play here. That was done for  
5 Bethlehem Steel because we were looking at  
6 potential models that involved a surrogate  
7 facility. I think factual accuracy is really  
8 not an issue here. I think what we would do is  
9 point out certain things in our review process  
10 that may involve misrepresentation of a  
11 guidance that has been provided to the dose  
12 reconstructor, et cetera, but we're not really  
13 going to question the factual accuracy of those  
14 documents --

15           **DR. ZIEMER:** No, I think we're talking about  
16 NIOSH questioning your factual --

17           **DR. BEHLING:** Yes.

18           **DR. ZIEMER:** -- accuracy in your report, if  
19 there's something that's just --

20           **DR. BEHLING:** Well --

21           **DR. ZIEMER:** -- simply wrong.

22           **DR. BEHLING:** Yeah, I would assume that that's  
23 part of the -- their review of our draft that  
24 says here's what we found are potential issues  
25 that we wanted to raise, and they will come

1 back -- as they did the last time -- and say we  
2 disagree with you. That's really not necessary  
3 a factual accuracy. It's just an issue that  
4 they feel we may have made a mistake in making  
5 assumptions --

6 **DR. ZIEMER:** Well --

7 **DR. BEHLING:** -- it's just nothing more than --  
8 than what we went through the last time.

9 **DR. ZIEMER:** Well, did we do a factual accuracy  
10 --

11 **DR. BEHLING:** No.

12 **DR. ZIEMER:** -- on the first set?

13 **DR. BEHLING:** We submitted -- the last time  
14 what happened was we submitted a report to the  
15 Advisory Board and concurrently provided the  
16 same report to NIOSH, who then reviewed the  
17 contents of that report and said your criticism  
18 is not necessarily something we agree with.  
19 And therefore at the last meeting in  
20 California, at Livermore, they came to the  
21 meeting with a list of issues that they felt  
22 were -- were unjustified criticism.

23 **DR. ZIEMER:** So -- yeah, so we had -- we  
24 specifically had factual accuracy on the -- on  
25 the site profile reviews. But Jim, can you

1 speak to this factual accuracy issue? Is that  
2 an important step or is it --

3 **DR. NETON:** I honestly don't recall that we did  
4 a factual accuracy review of the dose  
5 reconstructions, so I think the report was  
6 issued and -- and remember, we had the -- the  
7 problem that it was not released to the public  
8 because there was no factual accuracy review.  
9 I think that was the central issue was we  
10 believe that it --

11 **DR. ZIEMER:** Well, in fact were there factual  
12 issues in the report that --

13 **DR. NETON:** Yeah, there was a -- it was  
14 commingled issues -- I mean factual accuracy,  
15 but as Hans correctly pointed out, there were  
16 also philosophical issues and -- and  
17 (unintelligible) --

18 **DR. ZIEMER:** Well, let me -- let me rephrase  
19 this. Do we need a factual accuracy report or  
20 do you -- can you handle it all as one thing?

21 **MR. GRIFFON:** Just do it all as one thing.

22 **DR. NETON:** I suspect that we could. I'm a  
23 little bit reluctant to say we could turn  
24 around an entire review in a week, though.

25 **DR. ZIEMER:** Oh, no, I -- no, if -- if he's

1 talking about the entire review, that's  
2 something different.

3 **DR. NETON:** I think if we could expand --

4 **DR. ZIEMER:** I'm really asking do we need a  
5 factual accuracy review, in your mind, or can -  
6 - can you just...

7 **DR. NETON:** I don't think so. The more I think  
8 about this, I really feel that we can  
9 accomplish both -- kill two birds with one  
10 stone, so to speak.

11 **DR. DEHART:** If I remember correctly, it was --  
12 during the conference call wasn't NIOSH  
13 represented?

14 **DR. BEHLING:** Yes, sir.

15 **DR. DEHART:** In that committee --

16 **DR. ZIEMER:** Yes.

17 **DR. DEHART:** -- y'all had somebody from NIOSH  
18 with you.

19 **MR. GRIFFON:** Right.

20 **DR. NETON:** That's correct.

21 **DR. DEHART:** So there was the first chance to -  
22 - if there was something that was clear, they  
23 could correct right then.

24 **DR. NETON:** Yeah, and -- it's not clear, is  
25 this -- is this report released to the public

1 at this point, though? I'm not clear about --

2 **DR. ZIEMER:** No, because it involves individual  
3 cases and -- and --

4 **DR. NETON:** Right, so --

5 **DR. ZIEMER:** And I don't think that was an  
6 issue at that time. We --

7 **DR. NETON:** See, that was our concern with the  
8 release to the public of a report that may have  
9 been way off-base on some factual accuracy  
10 issue. We just wanted the opportunity to --

11 **DR. ZIEMER:** Yeah, the site profiles were --

12 **DR. NETON:** The site profile, that makes some  
13 sense.

14 **DR. ZIEMER:** Right, right.

15 **DR. NETON:** But for these, I guess I would  
16 agree that a factual accuracy review and a  
17 technical review can be accomplished at the  
18 same time.

19 **DR. ZIEMER:** Okay. So now your review changes  
20 -- your first crack at it changes its form a  
21 bit, so now you're going to need a little more  
22 time to address technical issues, so you jump  
23 from one week to --

24 **DR. NETON:** At least two.

25 **DR. ZIEMER:** -- at least two -- Hans, right?

1           **DR. NETON:** And I'd like to say three, but --

2           **DR. ZIEMER:** I'm surprised you're that  
3           conservative, Jim.

4           **DR. NETON:** Well, I'd like to say three. I'm  
5           not speaking -- I'm speaking for the group  
6           that's going to have to do it. I don't really  
7           do the first pass on these, but --

8           **DR. ZIEMER:** Okay, but --

9           **DR. WADE:** Yeah, please say three.

10          **DR. NETON:** If I say three and no one will  
11          balk, I would appreciate the extra time.

12          **MR. GRIFFON:** Realistic, yeah.

13          **DR. ZIEMER:** So three weeks and you -- and  
14          basically now you have the next column --

15          **DR. NETON:** We'll fill in the next column, and  
16          then that would precipitate to the next meeting  
17          and (unintelligible) --

18          **DR. ZIEMER:** -- and then a revised document --  
19          and you -- you folks now would need to respond  
20          to that, so you need what, a couple more weeks?

21          **DR. MAURO:** Yeah, I -- from our previous  
22          experience, I think it took at least two weeks  
23          to go from -- after the meeting to getting the  
24          product out as the final report.

25          **DR. ZIEMER:** Yeah, so we've got two to three

1 weeks.

2 **DR. MAURO:** Yeah.

3 **DR. ZIEMER:** So those two steps -- we've got  
4 six weeks after the first draft comes through.

5 **DR. WADE:** And just remind me, John, from the  
6 day you get the assignment, how long before you  
7 produce the first report? If we were to give  
8 you 20 cases, when would we expect that first  
9 report out?

10 **DR. MAURO:** I'm thinking about the first time  
11 through the pipeline, that actually took two  
12 months.

13 **DR. WADE:** Okay, that's fine. I just needed a  
14 time to -- that's fine.

15 **DR. MAURO:** Yeah, from the -- from the -- that  
16 is from receiving this set of -- first set of  
17 20 to the meeting -- the telephone -- two-man  
18 team meeting to the delivery of the draft --  
19 working -- working draft document that was not  
20 published, I think that took two months.

21 **DR. WADE:** That's fine.

22 **DR. MAURO:** Yeah. And then -- then --

23 **DR. ZIEMER:** Right, 'cause you assigned the  
24 cases out. Your individual folks are reviewing  
25 the --

1           **DR. MAURO:** Right, and that's a two-month --

2           **DR. ZIEMER:** -- (unintelligible).

3           **DR. MAURO:** -- and before we could actually  
4 have the product in your hands required two  
5 months, and then after that two-month period,  
6 then we move into the cycle you just described.

7           **DR. WADE:** And that's a six-week cycle.

8           **DR. MAURO:** And that's six weeks on top...

9           **DR. WADE:** That's fine. That's...

10          **DR. ZIEMER:** Lew, does that answer the question  
11 we need at this point --

12          **DR. WADE:** Right.

13          **DR. ZIEMER:** -- on a timetable?

14          **DR. WADE:** And again, where I'm -- where I'm  
15 trying to go with this is now to try and  
16 understand what the Board or the subcommittee  
17 would see as a year's work, how many cases do  
18 we want to do in a year given our understanding  
19 of this time line. 'Cause what I'm really  
20 trying to do is build an understanding of how  
21 much money we need to set aside to do the work  
22 you see in a year for this. So the question to  
23 the subcommittee -- I mean we don't have to  
24 decide this now, although we should talk a  
25 little bit about it, is in the course of a year

1           how many cases do we want to do, given the fact  
2           that it's --

3           **DR. ZIEMER:** This process is going to eat up  
4           two and a half to three months per 20 cases --  
5           call it three months --

6           **MR. GRIFFON:** Right, three months, yeah.

7           **DR. ZIEMER:** -- so you -- at best, you can do  
8           four sets.

9           **DR. WADE:** Unless you run them in parallel,  
10          that's right.

11          **DR. DEHART:** We have two -- two sessions or two  
12          groups right now in the pipeline.

13          **DR. WADE:** That's right.

14          **DR. ZIEMER:** But they probably -- they may not  
15          be done in parallel. They may end up  
16          sequentially, in terms of --

17          **DR. WADE:** So I mean one logic would say two  
18          months for the first version, six weeks, that  
19          equals four months. You could do three batches  
20          a year, so that's 60 a year.

21          **DR. ZIEMER:** Yeah, uh-huh.

22          **DR. WADE:** Okay. I just wanted to get a sense  
23          of that. Then my next question, so you don't  
24          have to sit down, John, is what does it cost to  
25          do 60?

1           **DR. MAURO:** Okay. Right now we're operating on  
2           the basis of 40 work hours per case -- okay?  
3           Let me -- let me (unintelligible) -- the -- the  
4           --

5           **MR. GRIFFON:** But what's appropriated to this -  
6           -

7           **DR. MAURO:** You want to talk about this here?  
8           I'll --

9           **MR. GRIFFON:** Okay.

10          **DR. MAURO:** We won't talk dollars, we'll talk  
11          work hours if --

12          **DR. WADE:** Work hours is fine.

13          **DR. MAURO:** Okay. Our experience is 40 work  
14          hours to get the product written. Then there  
15          is another eight hours per case for the quality  
16          control check, so 48 hours per case. Okay?  
17          Now we've delivered. Then we go into the  
18          expanded review cycle and our experience is the  
19          expanded review cycle to do a full set of 20  
20          cases takes 300 work hours. Other words -- so  
21          the -- get moving through -- other words, we  
22          have basically two people working full time for  
23          a month during the expanded --

24          **DR. ZIEMER:** So that's another 15 hours per  
25          case.

1           **DR. MAURO:** That's what -- how -- it comes to  
2           about that, yeah. So in the end we're talking  
3           about for-- say 50 -- 65 work hours per case.  
4           That's what it's turning out to be. Now as  
5           Hans pointed out, we are now getting access to  
6           certain information that might greatly ex--  
7           might improve our efficiency. But at the same  
8           time, we are moving into the advanced reviews -  
9           - I'm not sure how much different the advanced  
10          -- 'cause I don't know if you can get much more  
11          advanced than what we're doing. That is, we're  
12          really beating it, you know, pretty hard, so  
13          I'm not sure whether the advanced reviews are  
14          really of substantive difference. We'll find  
15          out as we move through these cases, but right  
16          now if you were to say what do you think, I  
17          don't think it's going to be -- I think it's in  
18          the fine structure. It's not going to be --

19          **DR. ZIEMER:** No.

20          **DR. MAURO:** Yeah, it's not going to change that  
21          65 work hours per case.

22          **DR. WADE:** Okay, so we're looking at a period  
23          of performance of four months per set of cases,  
24          assuming a set is 20. That gives us 60 a year,  
25          and approximately 65 hours, without discussing

1 labor rates, to do a case. That's fine. That  
2 gives me what I need to -- to...

3 **DR. ZIEMER:** Any other questions on this topic  
4 now? We're going to have a draft prepared this  
5 evening which we can act on in the morning in  
6 terms of what the wrap-up will look like, and  
7 this will be something that, if we approve it,  
8 will be presented to the Board at the next  
9 meeting, together with the updated supplement  
10 material.

11 **DR. WADE:** On this general -- general topic,  
12 another --

13 **DR. ZIEMER:** Yeah.

14 **DR. WADE:** Hans has brought us to the point,  
15 but I think it would be good for us to close on  
16 this issue of workbooks and just get those  
17 issues on the table and make sure that we have  
18 an understanding and everything in place to do  
19 this as efficiently as possible. So the table  
20 has been set on that issue, John, but we  
21 haven't really closed on it, so...

22 **DR. ZIEMER:** What -- are there actions that  
23 need to be taken, or are you working this with  
24 NIOSH or what -- what's happening there?

25 **DR. MAURO:** We -- you may not have received

1           this yet, Paul and Lew. I sent out an e-mail  
2           yesterday late in the day which summarized some  
3           of the recent developments that were very  
4           important in terms of our being able to  
5           effectively and efficiently perform our reviews  
6           of the cases. Two of the developments deal  
7           with what's referred to as the workbooks and  
8           their associated spreadsheets. We recently  
9           received them. Stu Hinnefeld provided us with  
10          them. We've been using them. They certainly  
11          are helpful, but they're also -- we're really  
12          not -- they -- my sense is we need some  
13          training.

14          That is -- and there's -- an interesting aspect  
15          to this is, in effect, the workbooks and the  
16          spreadsheets are the de facto procedures that  
17          NIOSH is using to do dose reconstruction.  
18          They've automated it, almost becomes like an  
19          assembly line. Now -- so in a funny sort of  
20          way, we -- we did a critical review of the  
21          procedures, task three. Now we are in a  
22          situation where what we've been doing up until  
23          now is reviewing the cases directly against  
24          those procedures, which are substantial --  
25          about 35 procedures. And as you know from our

1 critique of task three, it's a -- I use the  
2 word impenetrable. I'm sorry, but it's very  
3 difficult to read the site profile, read all  
4 the procedures, digest them all, understand  
5 exactly what they're trying to tell you, and  
6 then audit the case. Okay?

7 Now it turns out -- and -- but that's what  
8 we've been doing. Now it turns out, though,  
9 that the reality is that there are these  
10 spreadsheets, workbooks that help to automate  
11 the process. One of the things that I  
12 mentioned in my e-mail to you, Lew, recently is  
13 that since these spreadsheet workbooks are  
14 becoming de facto the automated process that's  
15 being applied, I think it's important -- one --  
16 for us to map the spreadsheet workbooks back  
17 onto the original procedures that they're  
18 designed to implement. That audit -- that step  
19 needs to be done in effect as part of task  
20 three. In theory, under ideal circumstances,  
21 auditing the spreadsheet workbooks at the same  
22 time we audited the procedures might have been  
23 a very helpful and a -- in other words, because  
24 -- and -- and Jim, certainly correct me if I'm  
25 wrong, since the real place where the rubber

1           meets the road is these workbooks and  
2           spreadsheets, this is -- it's very important  
3           when we do our audits that we see how those are  
4           being used, how those redu-- take this massive  
5           amount of material that's contained in either  
6           the site profile -- not either, in the site  
7           profiles and in the 35 set of procedures that  
8           are generic, and somehow they're boiled down  
9           and turned into a spreadsheet that becomes an  
10          automated process, which certainly greatly  
11          expedites the process, but we have not audited  
12          that step. That's a very important step.  
13          Now two things happen. One, when we audit that  
14          step, we'll find out whether or not the line is  
15          clean. That is, we can see -- cradle to grave  
16          -- how we got to the spreadsheet and how it's  
17          being used. And then when we do our audits of  
18          a case, we'll see yes, we could track  
19          everything right back to OCAS-1, for example.  
20          Once we get that behind us and we're proficient  
21          in understanding and using the spreadsheets and  
22          the workbooks, something that I think we might  
23          need some training on -- because I don't think  
24          they were written to be used cold; I think  
25          someone needs to be -- a little bit of walk-

1 through on how to use them -- we will then be  
2 getting into a mode of operation where we might  
3 be able to get a lot more efficient. And that  
4 65 work hours per case may come down. So you  
5 know, we're all maturing in this process.  
6 I'm not -- so I guess I'm making a request that  
7 a -- that if we could, as soon as possible,  
8 receive some training, make sure we have all  
9 the spreadsheets and workbooks, and then  
10 there's also access to certain electronic files  
11 that I mentioned that recently we didn't know  
12 about. That is, that we found out that we can  
13 download directly some very, very large files.  
14 We were having trouble getting access.  
15 Apparently we now have access to it, and this  
16 was in my e-mail to Lew and Paul was that the  
17 extent to which NIOSH folks involved in the  
18 process can sort of put their hat on is what is  
19 it that we could provide SC&A that might make a  
20 little easier for them to do their job, provide  
21 us with the workbooks earlier, provide us with  
22 access to databases or other information so  
23 that -- right now we're doing it by brute  
24 force. When I -- brute force is digesting all  
25 this material, trying to understand it,

1           condense it down so that we can do our job.  
2           There's material out there that would ex-- help  
3           us do our job, that would be greatly  
4           appreciated.

5           **DR. ZIEMER:** Rich or Jim, but do you want to  
6           speak to that general issue? Is this -- seem  
7           to make sense that, in essence, these do become  
8           de facto procedures and therefore ought to  
9           be...

10          **DR. TOOHEY:** Yeah, Dick Toohey, ORAU. I'm not  
11          sure if I agree they're de facto procedures,  
12          but they're certainly de facto the way sizeable  
13          portions of an individual dose reconstruction  
14          report get done. And what I want to clarify on  
15          that for the record is what is automated is the  
16          common elements in the site profile -- the  
17          ambient environmental dose, the X-ray dose, the  
18          missed dose for both external and internal --  
19          all the things that would apply to all  
20          claimants from that site. And that is  
21          automated to improve our efficiency, but I want  
22          to make sure for the record that the  
23          subcommittee and the Board understands that the  
24          individual monitoring records are entered and  
25          pulled in, both external and internal, and we

1 use IMBA as necessary to run those.

2 But -- and the other thing I want to mention,  
3 as John mentioned, these are Excel spreadsheets  
4 that get assembled into workbooks. They also  
5 pull in some of the boilerplate, the required  
6 phraseology in the dose reconstruction report.  
7 And we've got pull-down menus for well, if you  
8 did the DR this way, then that paragraph has to  
9 be in the report and -- you know, all these  
10 things just to minimize the amount of typing a  
11 health physicist -- or keyboarding, I should  
12 say, a health physicist has to do to generate  
13 the final product.

14 And as John mentioned, yeah, we have provided  
15 all the current ones on the CD-ROM. I will  
16 mention, like everything else, these things  
17 change with time. As we may discover more data  
18 or revise a TBD or a site profile, then that  
19 gets incorporated into the workbook. So like  
20 anything else, when you're auditing something  
21 you're looking at a snapshot in time.

22 But certainly we can do that. We can probably,  
23 you know, set up some way to provide training  
24 for this or -- on using these or whatever. I  
25 would mention, though, one training session may

1 not meet your needs. Our experience has been  
2 that a -- you know, a fresh dose reconstructor  
3 whom we would hire anew, it takes them about  
4 six months to get proficient in using these  
5 tools in producing DR reports, but -- so I'm  
6 not surprised, you know, you guys, by the brute  
7 force method -- you know, you're condensing  
8 into a couple of months what we've been  
9 developing for two and a half years. I don't  
10 envy you the task.

11 **DR. ZIEMER:** Yeah. Rich, do you have a formal  
12 training program for your guys on these now, or  
13 do they just pick it up by using it? Is it a -  
14 - I mean --

15 **DR. TOOHEY:** They are -- there -- there is a --  
16 I would say there's a semi-formal training  
17 program. What we have, we're getting more and  
18 more people specialized by site, so we have --  
19 you know, these three or four guys, they do all  
20 the Hanford cases, so they know that  
21 spreadsheet.

22 **DR. ZIEMER:** I was really asking if there's a -  
23 - is there an existing training program that  
24 they could plug into or is it done on an ad hoc  
25 basis and --

1           **DR. TOOHEY:** No, on -- on the spreadsheets it's  
2           pretty much ad hoc. There is a formal training  
3           program for IMBA, which I think we made  
4           available and they use, but not on the  
5           spreadsheet. But --

6           **DR. ZIEMER:** But on the ad -- or -- so how do  
7           you -- how do your folks get trained, just by  
8           doing it or does somebody sit down and show  
9           them how --

10          **DR. TOOHEY:** It's OJT.

11          **DR. ZIEMER:** Yeah.

12          **DR. TOOHEY:** You know, one of the more  
13          experienced dose reconstructors, and probably  
14          somebody who helped developed the spreadsheet,  
15          sits down with somebody -- okay, here's how you  
16          use them and -- but actually it's a good point  
17          which -- I didn't realize, we do need to  
18          formalize and capture that, too, in the  
19          interest of defensibility of the produced dose  
20          reconstruction.

21          **DR. ZIEMER:** Yeah. Hans?

22          **DR. BEHLING:** Yeah, and I just want to make a  
23          point here is that we don't have the luxury of  
24          having Dr. Toohey's team of people who are  
25          specialized. You're looking at the team right

1 here. Okay? And I have to learn just about  
2 every TBD and know how it's to be applied, and  
3 my wife is the one who does all the computer  
4 work, so she will have to do many of the  
5 spreadsheets -- and she's done quite well;  
6 she's a very smart girl and she has learned a  
7 lot on her own. But I would like for her to be  
8 able to use the spreadsheets efficiently  
9 because it would help my process. And right  
10 now -- and John has talked about strong-arming  
11 this -- I go back to first principles and I  
12 have in fact done a very, very cursory quality  
13 assurance assessment of the spreadsheets  
14 because I go to first principles and say do I  
15 come within one, two percent of the numbers,  
16 and I have. So my verification at this point,  
17 in the absence of having the spreadsheets  
18 available for duplication of numbers, I use  
19 basically first principles and go through the  
20 motions, but it's time-consuming.

21 **DR. ZIEMER:** Yeah. But the good news is you  
22 can train the whole team in one fell swoop,  
23 see?

24 **MR. GRIFFON:** I would -- I would also ask if --  
25 I don't know if all Board members would be

1 interested, but I certainly -- I got the --  
2 some preliminary sheets from Jim Neton about  
3 probably nine months ago, I don't know when he  
4 sent them, but -- and with the caveat that  
5 these are not intuitively obvious to use. And  
6 at some point you did say it might be useful to  
7 have someone sit down -- I'd like to take  
8 advantage of that, too. I've also cross-walked  
9 them, but they're difficult to --

10 **DR. ZIEMER:** Well, if we had a couple of people  
11 maybe do it at the same time, if we can --

12 **DR. NETON:** Yeah, I think Dick is definitely  
13 willing to do that and we'd be willing to  
14 support that effort.

15 I'd like to point out a couple -- couple of  
16 things, though. One is that these workbooks  
17 evolved over time. The procedures do stand by  
18 themselves.

19 **DR. ZIEMER:** Uh-huh, good. Right.

20 **DR. NETON:** They are not the actual TBDs and  
21 profiles and the implemented procedures.

22 **DR. ZIEMER:** The procedures --

23 **DR. NETON:** I give these workbooks more like  
24 TurboTax compared to the U.S. Tax Code.

25 **DR. ZIEMER:** Right, right.

1           **DR. NETON:** You've got a very complex  
2 structure. It'll take you years to do your  
3 taxes if you try to plod through it line by  
4 line and looking through the books. If you  
5 have these workbooks, it'll certainly expedite  
6 the process.

7           **DR. ZIEMER:** But you're -- you always want to  
8 know that TurboTax is really following the  
9 Code.

10          **DR. NETON:** Exactly. But what I will say is  
11 these evolved over time and so that it may be  
12 that some of these products weren't even  
13 available at the time the audit started, I  
14 don't know. I mean I haven't looked at them.  
15 The other thing I might caution people on is  
16 that these things tend to address a very  
17 specific set of claims, in many cases. We  
18 worked through the efficiency process so there  
19 are large blocks of claims that can be done a  
20 certain way. These workbooks evolved in  
21 accordance with the procedures. You may spend  
22 a lot of time learning this -- these workbooks  
23 and these techniques, to find out that the next  
24 500 dose reconstructions are now different and  
25 what you learned is obsolete. So just so the

1 Board understands that this is sort of a moving  
2 target that they're working to.

3 **MR. GRIFFON:** But there are similarities across  
4 these spreadsheets. I looked at various ones  
5 and there are a lot of similarities, too, so I  
6 think...

7 **DR. TOOHEY:** Yeah, let me add one thing. We  
8 haven't done it on too many cases so far, but  
9 some of the spreadsheets incorporate the  
10 Crystal Ball program under Excel, which is this  
11 Monte Carlo sampling of things we have to do  
12 where we're using distributions of variables  
13 and then try to get the combined uncertainty  
14 and the best estimate of the case.

15 **DR. ZIEMER:** Thank you.

16 **DR. TOOHEY:** And those things are well beyond  
17 my (unintelligible), also.

18 **DR. ZIEMER:** I'd like to ask the subcommittee  
19 now if you -- well, number one, do you need  
20 another break; and number two, do you want to  
21 continue on the -- tomorrow morning's agenda,  
22 or do you want to go ahead and break?

23 **MR. GRIFFON:** Well, do we -- just a question,  
24 if -- I'm certainly hoping for a break since  
25 I've been up since 3:30 this morning, but just

1 a question. If we wanted to -- since I'm going  
2 to work on this draft tonight with Roy, do we  
3 want to talk about -- 'cause I have some  
4 questions for content of that -- of that front  
5 end piece --

6 **DR. ZIEMER:** Yeah.

7 **MR. GRIFFON:** -- that I thought would be  
8 worthwhile discussing here.

9 **DR. ZIEMER:** Let's get those --

10 **MR. GRIFFON:** Okay.

11 **DR. ZIEMER:** -- before us before we leave then.  
12 Let's go ahead and do that.

13 **MR. GRIFFON:** I mean I think I mentioned the  
14 one about the DR reports. I thought that was  
15 an important thing that came out reviewing  
16 these first 20, the -- the way they were -- the  
17 amount of information the --

18 **DR. ZIEMER:** Communication with the claimants  
19 is --

20 **MR. GRIFFON:** Communication with the claimant,  
21 and also the auditability of the -- of the DR  
22 reports themselves.

23 **DR. ZIEMER:** That's really the audit trail --

24 **MR. GRIFFON:** Right.

25 **DR. ZIEMER:** -- issue.

1           **MR. GRIFFON:** Right.

2           **DR. ZIEMER:** Yeah, I had those two jotted down.  
3 Do we have some other ones we want to identify,  
4 any of the committee members would want to  
5 identify?

6           **MR. GRIFFON:** I mean certainly -- and Hans --

7           **DR. ZIEMER:** Those come under items for  
8 improvement, I believe.

9           **MR. GRIFFON:** Yes, yes, I think so. Hans  
10 brought up the one of some concerns about  
11 procedures. I think there was -- if there was  
12 any trend amongst the first 20 there was some  
13 question about the adherence to procedures.  
14 I'm not sure exactly how to word that right now  
15 if -- I want to look back at the findings, but  
16 it wasn't always adherence. Sometimes -- and -  
17 - and as Hans indicated, it wasn't -- it didn't  
18 seem as though it was necessarily the user.  
19 Sometime it seemed that it was a confusing  
20 documentation --

21           **DR. ZIEMER:** It was the issue of whether the  
22 procedures themselves were clear.

23           **MR. GRIFFON:** Right, right.

24           **DR. ZIEMER:** Whether somebody's adhering to  
25 poor procedures or somebody's ignoring good

1 procedures, or I think would be --

2 **MR. GRIFFON:** Hans had one case that the  
3 procedure might have been correct, but it was  
4 so --

5 **DR. ZIEMER:** Was hard to understand.

6 **MR. GRIFFON:** No, no, it was so tedious of a  
7 calculation that nobody bothered following it.  
8 That was the uncertainty calculation --

9 **DR. BEHLING:** And I'm sure Dr. Toohey can  
10 verify this, the implementation guide 001 has a  
11 certain protocol for defining the uncertainty  
12 in behalf of dosimeters, whether it's the 52  
13 weekly change-outs to element film or the  
14 subsequent ones, but they basically tell you to  
15 go through a protocol that would probably take  
16 you years to do a dose reconstruction based on  
17 52 individual for just a single year  
18 uncertainties. And I think no one follows it  
19 and therefore we're constantly saying you did  
20 not include uncertainty, and I understand why.  
21 You can't do it unless you want to invest a  
22 year of your life. And so the question is, is  
23 the procedure wrong? The answer is yes, they  
24 should simplify it. Multiply the dose of  
25 record by 1.3 and assume a 30 percent error or

1           uncertainty and solve the problem. So some of  
2           the procedures are written by people who have  
3           too much time on their hands or certainly don't  
4           understand the urgency behind doing dose  
5           reconstruction.

6           **MR. GRIFFON:** So we can try -- I can try to  
7           capture that. We can look at the specific  
8           language tomorrow, but -- then the other ones  
9           that I jotted down, and I'm not sure of some of  
10          these, but I think there were some general  
11          findings related to quality assurance  
12          questions, whether there was sufficient  
13          internal quality assurance. And you know, if  
14          we look at some of the findings that -- that  
15          sort of point toward that question of -- of the  
16          internal quality for -- you know, when -- when  
17          something gets reviewed by several people and  
18          there's -- maybe the -- you know, it didn't  
19          make a difference in the case, really, but  
20          there's some errors that were very basic that  
21          were just left there and missed on -- on  
22          several reviews. Those kinds of things I think  
23          came up several times, and I think it points to  
24          the -- or at least it raises the question of  
25          can the quality assurance -- internal quality

1 assurance be improved, you know.

2 **DR. ZIEMER:** Particularly if a finding, even  
3 the low-level ones, if there's a significant  
4 frequency reoccurrence, it probably should be  
5 mentioned.

6 **MR. GRIFFON:** Why not fix it now. Right?

7 **DR. ZIEMER:** Right, fix it.

8 **DR. WADE:** But again, I think all of this in  
9 the context of what the overall finding has  
10 been of the audit, I think that's important to  
11 start with.

12 **DR. ZIEMER:** Right.

13 **DR. WADE:** And these things make sense then.

14 **MR. GRIFFON:** Right, okay.

15 **DR. ZIEMER:** Yeah, these are all in the -- in  
16 the category of items for improvement, as  
17 opposed to significant issues that will affect  
18 compensation or doses.

19 **MR. GRIFFON:** Right. Right.

20 **DR. ZIEMER:** Any others?

21 **MR. GRIFFON:** Then the question -- and these  
22 are even -- these might be even a little lower  
23 than ones we just talked about, and these might  
24 be even notes or other things to -- other  
25 future considerations, I'm not sure how to

1 capture this, but the CATI reviews in the first  
2 -- in these cases was -- there were several  
3 cases where there didn't seem to be any follow-  
4 up on specific comments made by the claimant or  
5 the widow of the claimant. And we -- you know,  
6 you -- you look at it in two ways. In most  
7 cases, as we discussed with NIOSH in the group  
8 meeting, even if certain incidents -- they  
9 didn't go back to validate whether they did or  
10 did not happen. But even in most instances if  
11 they had, they were overly conservative already  
12 on the high five or the 28 radionuclides, so  
13 what's the difference. But the importance  
14 might come into play when you're writing that  
15 DR report. I think from a communications  
16 standpoint with the public, it's very important  
17 to say yes, we listened to you in the  
18 interview; we did consider this, and here's why  
19 our approach is still conservative, even --  
20 notwithstanding your concerns about some  
21 incidents you might have been involved with.  
22 So -- so you know, there's sort of two levels  
23 there. One is, you know, just to communicate  
24 back to the claimant that you took their  
25 interview information seriously and did

1 consider it. But the second is, as you move  
2 forward, maybe when these cases get to the --  
3 closer to the range of the 50 percentile, they  
4 -- that information might be important and --  
5 and I -- I want to make sure we're not losing  
6 sight of that information and just sort of  
7 dismissing it out of hand. I don't think NIOSH  
8 is. We don't have that indication. But you  
9 know, just to put that on there.

10 **DR. ZIEMER:** It may be that you could just  
11 identify some items like that that are items --  
12 it's kind of a watch-list, not necessarily that  
13 they have to take action --

14 **MR. GRIFFON:** Right.

15 **DR. ZIEMER:** -- but this is something we need  
16 to be watching, both in our future reviews --  
17 it's more of a heads-up kind of list.

18 **MR. GRIFFON:** Exactly, yeah.

19 **DR. ZIEMER:** And maybe you can give it a --  
20 categorize it in some way like that. Other --  
21 other issues to maybe be cognizant of as we go  
22 forward that...

23 **MR. GRIFFON:** And I -- I think there is just  
24 one final one that I think -- in my mind, this  
25 is a bigger one. I'm not sure if other people

1           agree with me, but the question of validation  
2           and that -- the quick example is the high five  
3           question and whether -- whether in fact when --  
4           when we did these 20 cases it was pretty clear  
5           that the dose records used were usually summary  
6           DOE dose records. And from the beginning of  
7           this program we've been talking about the  
8           reason for NIOSH and for the Board's  
9           involvement is -- you know, there's been  
10          mistrust over years about DOE records, so part  
11          of our role as NIOSH doing this dose  
12          reconstruction work and part of the Board's  
13          role is to make sure this is being validated  
14          against the raw data that's -- to the extent  
15          that it's there. And I -- I haven't seen any  
16          of that -- or not much of that in these cases.  
17          The high five's an example. There's not much -  
18          - I haven't seen many cases where they've tried  
19          to use two methods to calculate an intake, for  
20          example, if air sampling or -- or urinalysis  
21          data are both kind of sketchy but they're both  
22          available, did they try to do both to sort of  
23          validate their final intake numbers, to the  
24          ext-- you know, to the extent that it's  
25          helpful. So those are -- high five is probably

1 the clearest example I can give where --

2 **DR. ZIEMER:** Well, I'm wondering

3 (unintelligible) --

4 **MR. GRIFFON:** -- (unintelligible).

5 **DR. ZIEMER:** Hans kind of brought this up, that  
6 -- on the high five that in doing the reviews  
7 of the dose reconstruction you sort of said  
8 well, I'm making the assumption that the high  
9 five is valid at this point; did they do the  
10 dose reconstruction correctly if that's the  
11 correct starting basis. But then you have to  
12 say okay, then you may need -- we may need a  
13 caveat that says oh, by the way, we need to  
14 give attention to this in the -- in the site  
15 profile reviews or in the Technical Basis  
16 Documents that -- that if the starting  
17 assumptions are themselves incorrect, then --  
18 then your -- you have a different ball game.

19 **DR. BEHLING:** Yeah, I think the problem comes  
20 into play when you look at the balancing  
21 between empirical data that involves bioassay,  
22 urinalysis, chest counts, and balance that  
23 against the assumption of a hypothetical  
24 exposure using the high five. And what I  
25 usually do is -- and there have been cases

1           where they've done exactly what Mark had  
2           questioned. They do in fact look at the  
3           empirical data and say you know what, if we  
4           follow through on this and use even  
5           conservative assumptions on the basis of  
6           certain realization that the urinalysis was  
7           only done on a routine basis, once annually, we  
8           will not come up with a dose that we will  
9           assign to them as a hypothetical individual.  
10          And I've looked at that, and for the most part  
11          I think they have always -- consistently sided  
12          on the -- in favor of the claimant by being  
13          cautious and saying that no, I believe if we  
14          were to pursue the empirical dose assessment  
15          from -- from data, whether it's urinalysis,  
16          chest count, we will still come up short of the  
17          dose that we would assign by hypothetical. And  
18          they have done that, there's no question about  
19          it. And so I usually am confident -- I have no  
20          question about the -- the claimant favorability  
21          when you see a dose reconstruction that assigns  
22          a high five dose to somebody who's only worked  
23          there for one or two years. I would question  
24          it if the person worked from 1953 through 1989  
25          or something and say is the high five truly

1 claimant favorable based on the potential that  
2 this individual worked within one of the  
3 production reactors where even the -- the  
4 integrated dose from non-monitored exposure  
5 could potentially exceed the high five, as  
6 favorable as it appears. And so there's where  
7 you start to look at things and sort of say is  
8 the high five truly claimant-favorable. In  
9 most instances it is, but for a person who may  
10 have worked there for 30 years or more in an  
11 environment where potential exposure could have  
12 occurred at a time when people weren't properly  
13 monitored, were not consistently monitored, you  
14 sort of have to look at that. And I do that,  
15 and I haven't found anything that would cause  
16 me any heartburn.

17 **MR. GRIFFON:** And this is one of those that it  
18 may not have affected the cases here, but it's  
19 something that could affect others, and I think  
20 that -- as Dick has stated -- they're careful  
21 in when they use the high five and when they  
22 don't, when they -- you know, so they won't --  
23 they don't use it for all cases. Especially as  
24 they approach the 50th percentile they'll use  
25 other data. But I just think that is hanging

1 out there as a validation question.

2 Another, just to get --

3 **DR. ZIEMER:** Mark, how are you proposing that  
4 be incorporated into this, though? This --  
5 this -- this (unintelligible) --

6 **MR. GRIFFON:** Well, I guess --

7 **DR. ZIEMER:** -- category --

8 **MR. GRIFFON:** -- watch -- under the watch-list  
9 --

10 **DR. ZIEMER:** -- (unintelligible) --

11 **MR. GRIFFON:** -- I guess I would say. It also  
12 comes up in the -- in my eyes, anyway, in the  
13 Huntington Steel case. And again, I'm not sure  
14 it's -- I don't even remember what type of  
15 cancer that case was, so it may be a -- you  
16 know, they may have been very conservative in  
17 that case. The point on the -- from the  
18 exposure assessments side is that they made  
19 assumptions on the uranium enrichment that,  
20 according to NIOSH, are very conservative and  
21 compensate for not taking into account the --  
22 word I love -- trace transuranic concentrations  
23 in the nickel. And maybe someone's run those  
24 numbers and checked that to make sure that that  
25 39-percent enrichment is truly conservative,

1 given even the worst case estimates they can do  
2 the plutonium, neptunium in that nickel. I  
3 don't know, but I haven't seen it, so that's  
4 all I'm saying is if that -- you know, somehow  
5 that has to be validated. And those kind of  
6 issues are out there in the public, too.  
7 People know that this stuff had plutonium,  
8 neptunium in it. If they see that -- you know,  
9 you say we used conservative assumptions to  
10 demonstrate it wasn't a problem, they're going  
11 to be speculative, you know. So I think to the  
12 extent we can validate it, it strengthens the  
13 whole program, too, so...

14 **DR. ZIEMER:** Okay. Other items? So that --  
15 that's also a watch list item then.

16 **MR. GRIFFON:** Yeah.

17 **DR. ZIEMER:** Okay. It looks like you have a  
18 good laundry list there to work into the  
19 narrative. Any other input for Mark and Roy  
20 for tonight?

21 **DR. WADE:** Godspeed.

22 **DR. DEHART:** Only after (unintelligible).

23 **DR. ZIEMER:** Tomorrow we'll be focusing on the  
24 Bethlehem Steel material. One item that's on  
25 our list for tomorrow and has 45 minutes set

1           aside for it, and I think it will take less  
2           than 45 seconds, the upcoming set of 18. I  
3           think we've covered that pretty much already.  
4           Didn't we agree that we've -- is there anything  
5           more to be said on that? I think we're -- the  
6           upcoming set of 18 -- we've already talked  
7           about the schedule and --

8           **DR. BEHLING:** Yeah, I'm pretty well on my way  
9           to reviewing those that other people have done,  
10          as well as doing a good number of those 18  
11          myself. There's still a few left, and some of  
12          them may be time-consuming because they --

13          **DR. ZIEMER:** Yeah.

14          **DR. BEHLING:** -- involve TBDs that I have yet  
15          to even look at.

16          **DR. ZIEMER:** Right.

17          **DR. BEHLING:** But I think we're pretty much on  
18          our way and -- and right now the only  
19          difference that I can sort of identify between  
20          the first 20 and the subsequent 18 we're  
21          currently reviewing is the involvement of  
22          workbooks, Excel sheets, Crystal Ball and a few  
23          other things.

24          **DR. ZIEMER:** Yeah.

25          **DR. BEHLING:** And that has certainly been a

1 change from the first 20.

2 **DR. ZIEMER:** Yeah, thank you. But -- and I  
3 think, Lew, you got the information you needed  
4 for a timetable on those also, right?

5 **DR. WADE:** Right. I think that while that will  
6 free up time tomorrow, we need time to do some  
7 of the agenda items that Mark brought to us.

8 **DR. ZIEMER:** Right, right.

9 **DR. WADE:** So I think it's worthwhile --

10 **DR. ZIEMER:** Right, that's why I was asking the  
11 question because that would determine whether  
12 we needed to go much longer today or not. I  
13 want to make sure that we're done by the stated  
14 adjourning time.

15 **DR. WADE:** I think we have time tomorrow to do  
16 what we need to do.

17 **DR. ZIEMER:** Then I think we're probably  
18 prepared to recess, since we do have some work  
19 assignments tonight. We don't want Mark  
20 staying up till 3:00 again.

21 **DR. WADE:** Unless it's absolutely necessary.

22 **DR. ZIEMER:** Right. Okay, we'll recess then  
23 till tomorrow morning. We're -- I don't have  
24 15 minutes worth of opening remarks. I don't  
25 know if you do, either, Lew, but we'll try to

1           start right promptly at 8:30 and we'll --  
2           that'll give us three good hours to work.  
3           Thank you very much.

4           **DR. WADE:** Thank you.

5           (Whereupon, the subcommittee adjourned at 4:00 p.m.)

1  
2 MARCH 25, 2005

3 P R O C E E D I N G S

4 (8:37 a.m.)

5 OPENING REMARKS

6 **DR. ZIEMER:** Good morning, everyone. I'd like  
7 to call the meeting to order. We have some  
8 carry-over business from yesterday, the first  
9 item of which is the action on the minutes from  
10 our last subcommittee meeting. Before we  
11 actually act on that, let me take a moment here  
12 for some housekeeping things. Cori had a  
13 couple of items she wanted to call to the  
14 attention of the Board.  
15 Let's do that first, Cori, and then we'll  
16 address the minutes.

17 ADMINISTRATIVE HOUSEKEEPING

18 **MS. HOMER:** I just wanted to let you know that  
19 due to some travel processing changes at CDC  
20 there -- I will need your travel vouchers,  
21 receipts and all of your information by the end  
22 of the day in order to process your voucher and  
23 get it paid. We have a deadline of the end of  
24 the month to get these in or they won't be  
25 reimbursed till the end of April.

1           **MR. GRIFFON:** What about -- what about like  
2           airport parking and things that we don't have  
3           yet?

4           **MS. HOMER:** That's about it.

5           **DR. ZIEMER:** Well, I think that the issue then  
6           is if -- if you don't get them in by the end of  
7           the day, you'll get reimbursed in April instead  
8           of March.

9           **MS. HOMER:** Pretty much. If you mail them to  
10          me it just simply won't arrive in time for me  
11          to process them.

12          **DR. ZIEMER:** Okay. But you do need the  
13          receipts, I assume, and --

14          **MS. HOMER:** Yeah, once you check out you can  
15          provide me --

16          **DR. DEHART:** Parking doesn't -- isn't --

17          **MR. GRIFFON:** Yeah --

18          **MS. HOMER:** Or you can just send me an e-mail  
19          with your parking information, but it's the --  
20          it's the hotel receipt that I really need.

21          **DR. ZIEMER:** Okay. Okay, everybody? One other  
22          item, again I'll remind all the Board members  
23          and others who are here to -- if you haven't  
24          done so, to register your attendance there --  
25          in the book there on the table.

1                   **REVIEW AND APPROVAL OF MINUTES, MEETING 3**

2                   Now let's turn our attention to the minutes.  
3                   Are there any corrections or additions to the  
4                   summary minutes and the minutes for the  
5                   February 7th meeting of the subcommittee?

6   (No responses)

7                   **DR. ZIEMER:** No additions or corrections?

8                   **DR. DEHART:** I move their acceptance.

9                   **DR. ZIEMER:** Move their acceptance.

10                  **DR. ANDERSON:** Second.

11                  **DR. ZIEMER:** Seconded. All in favor, aye?

12   (Affirmative responses)

13                  **DR. ZIEMER:** Opposed, no?

14   (No responses)

15                  **DR. ZIEMER:** Motion carries. Thank you very  
16                  much.

17                  We're going to continue with the material from  
18                  yesterday. We have a report from our working  
19                  group.

20                  Before we do that, Lew, you had some additional  
21                  comments I think you wanted to make. Do you  
22                  want to wait till after this to make comments  
23                  about the rest of the agenda, or have you  
24                  covered everything you were going to --

25                  **DR. WADE:** The only things that I haven't

1 covered that -- in very specific detail, we --  
2 I think we should talk a little bit about the  
3 SC&A review of the Iowa TBD -- not content-  
4 wise, but just from a procedural point of view.  
5 I also think it would be good for the Board to  
6 consider -- the subcommittee to consider  
7 whether or not we would like to have Board  
8 members with Q clearances look at some material  
9 surrounding the Iowa TBD, as that might be  
10 relevant to the Board's deliberations when we  
11 meet the end of April. So I think it would be  
12 worthwhile exploring that as a subcommittee,  
13 and we are a subcommittee that looks at site  
14 profile reviews; I think that would be okay to  
15 do.

16 I also don't know that it would be a bad idea  
17 to start a discussion here that I think would  
18 then terminate on our phone call of are there  
19 specific questions we would like to pose to  
20 SC&A as they report out on their review of the  
21 Iowa TBD. Again, I don't think we need to  
22 close on that, but I think we might want to  
23 anticipate what questions we might be asking  
24 them when they come before us the end of April,  
25 and at least give them a heads-up on that now

1 so they could begin to prepare their work. We  
2 don't need to do that, but I think it would be  
3 worth talking about.

4 I do think then we have an issue to discuss  
5 about preparing to have SC&A available to do  
6 SEC work for us and what that would exactly  
7 involve. Again, that's not something we can  
8 close on here, but I think it is something we  
9 could talk a little bit about here -- again, in  
10 anticipation of our phone call by -- in early  
11 April.

12 Thank you.

13 **FIRST 20 DOSE RECONSTRUCTION REPORT**

14 **DR. ZIEMER:** Thank you. Okay, let's now turn  
15 our attention to the first 20 dose  
16 reconstruction report and, Mark, do you want to  
17 lead us through the draft of the working group  
18 here? Are there copies available for others or  
19 just --

20 **DR. WADE:** Cori is making them.

21 **DR. ZIEMER:** Copies for the others, okay.

22 **MR. GRIFFON:** You want me to read through the  
23 entire text or just describe the --

24 **DR. ZIEMER:** I don't know that you need to read  
25 through it word for word, but --

1           **MR. GRIFFON:** No, right, I'll take --

2           **DR. ZIEMER:** -- make -- make --

3           **MR. GRIFFON:** -- you through the document.

4           **DR. ZIEMER:** I think you should take us through  
5 it and --

6           **MR. GRIFFON:** Sure.

7           **DR. ZIEMER:** -- let us comment on the different  
8 sections. Also, I think -- just for clarity, I  
9 would suggest that you go ahead and mark this  
10 draft with a date, everybody, 'cause on some of  
11 these documents we get subsequent drafts and  
12 you -- I know going back in the files I  
13 sometimes lose track of which preceded which.  
14 So this is the draft of -- let's use today's  
15 date -- one of 3/25/05.

16           **MR. GRIFFON:** Okay. There's probably some --  
17 many more edits than that. Okay.  
18 Basically what Roy and I tried to do last night  
19 and I -- I did some additional editing this  
20 morning on this -- was to first -- the first  
21 couple of paragraph tried to lay out a little  
22 background, and I --

23           **DR. ZIEMER:** We're getting reverb here on these  
24 mikes, we -- that's better.

25           **MR. GIBSON:** Dr. Ziemer, I didn't get a copy.



1           -- is that the number of cases that were  
2           available at the time the 20 were selected, or  
3           the...

4           **MR. GRIFFON:** Right, that's correct.

5           **DR. ZIEMER:** Somehow we have to make it clear  
6           that -- however -- that those are not the only  
7           20 to be selected from that -- it may sound  
8           like out of that group there's only going to be  
9           20 cases audited. That's not the case here.  
10          Somehow we -- and I'm not -- I don't have the  
11          wording for you --

12          **MR. GRIFFON:** Yeah, I know.

13          **DR. ZIEMER:** -- but somehow we have to convey  
14          the idea that this is an initial sampling and  
15          perhaps even indicate, if we -- we were going  
16          to discuss this -- out of -- with the ultimate  
17          goal to sample let's say two and a half percent  
18          of the total cases. But if we can insert that  
19          idea so that it's clear that this 20 does not  
20          represent all of the sampling from that first  
21          batch.

22          **MR. GRIFFON:** Well, or -- or that -- yeah,  
23          somehow convey that those -- those cases will  
24          go back into the full pool to be re-- to be  
25          potentially sampled from. Right? Is that what

1           you're --

2           **DR. ZIEMER:** No -- no, these won't go back into  
3           the --

4           **MR. GRIFFON:** No --

5           **DR. ZIEMER:** -- these 20.

6           **MR. GRIFFON:** -- the -- the --

7           **DR. ANDERSON:** But the ones that were passed  
8           over.

9           **MR. GRIFFON:** Right.

10          **DR. ZIEMER:** Well, right, will -- right.

11          **MR. GRIFFON:** Going back into a bigger --

12          **DR. ZIEMER:** Right.

13          **MR. GRIFFON:** -- a growing pool, sort of --  
14          yeah.

15          **DR. ZIEMER:** Right. Right.

16          **DR. WADE:** But I think Paul's --

17          **MR. GRIFFON:** I just don't know how to phrase  
18          that.

19          **DR. WADE:** But I think Paul's concept is that  
20          the Board currently thinks it would be  
21          appropriate for it to have audited two and a  
22          half percent of individual dose  
23          reconstructions, and this is but a first --

24          **DR. ZIEMER:** This is simply --

25          **DR. WADE:** -- step in that.

1           **DR. ZIEMER:** -- an initial 20 -- an initial  
2           sampling of 20 cases.

3           **MR. GRIFFON:** We should convey that right up  
4           front, I agree.

5           **DR. ZIEMER:** Okay. And we can do the word-  
6           smithing --

7           **DR. ANDERSON:** (Unintelligible) insert a  
8           sentence after the first sentence, because that  
9           -- we -- we did have a resolution to do two --

10          **DR. ZIEMER:** Right.

11          **DR. ANDERSON:** -- and a half percent, so --

12          **DR. ZIEMER:** Yeah.

13          **DR. ANDERSON:** -- you could simply say that the  
14          -- you know, the goal of the -- is to sample  
15          two percent of all cases --

16          **DR. ZIEMER:** Yeah, or --

17          **DR. ANDERSON:** -- two and a half.

18          **DR. ZIEMER:** Two and a half percent of all  
19          cases, and this is an initial --

20          **DR. ANDERSON:** Yeah.

21          **DR. ZIEMER:** -- 20 cases that we're looking at,  
22          and that would clarify it. Right?

23          **DR. WADE:** Although further sampling from this  
24          population may occur.

25          **DR. ZIEMER:** Uh-huh.



1 sort of very difficult to explain why the  
2 summary findings only cover 15 of the cases,  
3 not all 20, and whether -- the question came up  
4 in my mind as to whether we can -- I know  
5 there's different issues, but whether we can  
6 make one matrix that would cover all issues and  
7 many of those -- maybe some of the issues  
8 listed --

9 **DR. ZIEMER:** Or -- or --

10 **MR. GRIFFON:** -- are not going to be applicable  
11 for DOE sites or for AW-- you know, but I think  
12 -- you know, one database for all the cases  
13 might be important for us down the line, so --

14 **DR. ZIEMER:** Let's explore that a moment.

15 **MR. GRIFFON:** Yeah.

16 **DR. ZIEMER:** What about a -- and it may be a  
17 different matrix, but what if there was a  
18 separate one to cover the type -- those -- I  
19 think it's -- is it AWEs, mainly? I don't know  
20 that you necessarily have to commit to this  
21 right now, but how -- how might we capture, for  
22 example, deficiencies, findings and so on for  
23 those other types of cases, like the other  
24 five? Is that a different table?

25 **DR. BEHLING:** We have not really attempted

1           that, but as I mentioned yesterday briefly,  
2           there are or there will be AWEs that are very,  
3           very suitable for the standard checklist that  
4           we identified. And a case in point is the Iowa  
5           where we do have attempts to identify dosimetry  
6           data for photons, neutrons, et cetera -- which  
7           was not the case for, for instance, Bethlehem  
8           Steel. There was absolutely zero data on which  
9           to backtrack or extrapolate from. As we  
10          mentioned yesterday, Bethlehem Steel has no  
11          dosimetry data, no bioassay data, very little  
12          air monitoring data that even applies to  
13          Bethlehem Steel itself, so there was very  
14          little in the current checklist that we could  
15          have made use of other than to keep checking  
16          off NA and then write a synopsis, perhaps, that  
17          explains what it is that we did find.  
18          On the other hand, there will be AWEs, as the  
19          case -- with the Iowa, where we can very easily  
20          apply the current checklist. So I can't say  
21          categorically that all AWEs will not be  
22          evaluated by means of the checklist.

23          **DR. ZIEMER:** No, I understand. But I'm  
24          wondering if there is some kind of a wrap-up  
25          sheet -- it may be a different sheet than the

1 15.

2 **DR. BEHLING:** We haven't done so, but --

3 **DR. ZIEMER:** No, I understand.

4 **DR. BEHLING:** -- we can certainly look at it.  
5 We can certainly make an attempt to go back and  
6 identify perhaps a separate type of checklist  
7 for those AWEs for which this current checklist  
8 is not appropriate.

9 **DR. ZIEMER:** Yeah, and basically, even if  
10 there's not a checklist for -- a check sheet  
11 for each case, how do we roll up the findings  
12 for those five that don't appear in this --  
13 they don't appear in this table.

14 **DR. MAURO:** Yeah, when we were putting this  
15 together and Hans said listen, we have our  
16 checklist that we're using, the one that you  
17 see, he says can you somehow -- 'cause I did  
18 the first five. And I said you know, they're  
19 all going to be NAs 'cause they were all based  
20 on -- turned out to be Huntington, Blockson and  
21 Bethlehem Steel, as Hans pointed out. So what  
22 I did instead was, in the beginning of each one  
23 I have a little table. Each table basically  
24 summarizes the degree to which that particular  
25 dose reconstruction was either -- had any

1           inadequacies regarding how they went about  
2           reconstructing the external doses, the internal  
3           doses.

4           So in other words, think of it like this: All  
5           of these dose reconstructions are  
6           reconstructing the internal doses, the -- the  
7           external doses and the X-ray doses. I mean  
8           they're all really the same, when all is said  
9           and done. But the methods by which that's done  
10          are very often substantively different in the  
11          AWEs as compared -- so -- so in theory, I could  
12          prepare -- or we could prepare, to the extent  
13          that we could use the format for the others --  
14          as Hans pointed out, for Iowa -- do that.  
15          To the extent that we have AWE cases that we  
16          have nothing but NAs in that format, then I  
17          think we probably -- we certainly can come up  
18          with something a little different that would  
19          address -- okay, let's talk Bethlehem Steel.  
20          Okay? The question becomes, you know, how --  
21          you know, how well did the dose reconstruction  
22          perform in doing internal doses, did we find  
23          certain deficiencies; and the answer would be  
24          yes, we did find some deficiencies. Check --  
25          or put a mark there.

1           So I guess I'm saying that in theory, for those  
2           AWEs where the reconstruction was based solely  
3           on some construct of a model, as opposed to  
4           real bioassay data, a different form for the  
5           roll-up I think might be necessary and I think  
6           would serve the process better.

7           **MR. GRIFFON:** I guess -- I guess what I'm  
8           asking for -- maybe it's a little more  
9           unyielding -- is just let's have one form, and  
10          I think it can be done. I've looked at these  
11          questions.

12          **DR. MAURO:** Okay.

13          **MR. GRIFFON:** I'm not saying that the AWEs fit  
14          in the current form. I'm saying add some  
15          different questions.

16          **DR. MAURO:** Some additional --

17          **MR. GRIFFON:** Under external dose, of course  
18          they didn't have dosimetry, but there can be a  
19          question that says, you know, did they, you  
20          know, estimate external dose in an appropriate  
21          --

22          **DR. MAURO:** Put it (unintelligible).

23          **MR. GRIFFON:** -- put it in in an appropriate  
24          manner to determine PO-- you know, whatever the  
25          question is.

1 DR. MAURO: Marry the two. Right.

2 MR. GRIFFON: Marry the -- marry the two.

3 DR. ZIEMER: So maybe it's an -- maybe it's --

4 MR. GRIFFON: Otherwise --

5 DR. ZIEMER: -- an additional --

6 MR. GRIFFON: -- we're going to have these --  
7 these -- you know.

8 DR. MAURO: Yeah.

9 DR. ZIEMER: Is it then perhaps an additional -  
10 -

11 MR. GRIFFON: Additional line --

12 DR. ZIEMER: -- few rows in these different  
13 categories.

14 MR. GRIFFON: Under each -- under each section  
15 or an additional couple, I don't know how man--  
16 you know.

17 DR. ZIEMER: That are specific to those kind of  
18 cases.

19 DR. MAURO: In fact, it -- as a thought, it  
20 might be worthwhile breaking out -- the table  
21 itself would have -- separate out. Okay,  
22 here's the -- here -- you know, here's the  
23 roll-up. Now, here's the roll-up and the roll-  
24 up would say here's the roll-up for the 15 DOEs  
25 and here's the roll-up for the five -- in this

1 case, the first set, the five -- AWEs, all on  
2 the same form. And you'll be able to make a  
3 distinction between the types of findings that  
4 we -- because the types of findings are  
5 different regarding AWEs versus -- I mean -- in  
6 fact, it might be useful to see a distinction  
7 because I think that understanding that there  
8 is some substantive differences between the  
9 strengths and limitations of a -- of a dose  
10 reconstruction that's done for DOE facilities  
11 and -- it's of a different issue regarding the  
12 strengths and limitations. The -- of -- in  
13 essence -- in essence, the way I see it is the  
14 construct that's used for AWEs to come to grips  
15 with a site where you have virtually minimal,  
16 if not -- data is a different category of  
17 problem. And you may want to be able to look  
18 at it for a different perspective. Perhaps in  
19 the same table, but have it broken out. It  
20 might work better that way.

21 **MR. GRIFFON:** I don't disagree necessarily with  
22 that. I mean the -- the presentation I think  
23 we can work with, and I think that should be a  
24 query-able field, you know.

25 **DR. MAURO:** Yeah.

1           **MR. GRIFFON:** You should be able to sort AWE  
2 findings from DOE find-- that's interesting --

3           **DR. MAURO:** Yeah.

4           **MR. GRIFFON:** -- 'cause I think you're right,  
5 there would be probably different conclusions  
6 or different kinds of problems, you know.

7           **DR. MAURO:** They're different, and I'd go a  
8 step further --

9           **MR. GRIFFON:** However, I think it's useful to  
10 see -- see (unintelligible) --

11          **DR. MAURO:** All in the same place.

12          **MR. GRIFFON:** Right.

13          **DR. MAURO:** And what is also -- I'm sorry --  
14 what's also interesting is that when you start  
15 to see trends, there's going -- a -- a story  
16 emerges. I mean actually from the data, a  
17 story emerges. And I think the story that  
18 emerges when you start to roll up information  
19 for AWEs is a completely different story than  
20 emerges when you look at the DOEs, and you want  
21 to be able to see that.

22          **DR. ZIEMER:** Thank you, John. What I -- I'm  
23 going to suggest that if -- if SCA can do this,  
24 and I don't -- I'm not talking about a major  
25 effort here, but when we have our Board meeting

1           where we act on this next time, if we could  
2           have the additional information rolled up. And  
3           I'm wondering if -- if we could agree, for  
4           example -- I don't want the Board to end up  
5           spending a major part of their time focusing on  
6           what the form looks like. This could evolve  
7           over a series of sets -- you know, you could  
8           say okay, we did it this way, but the next 20  
9           we want to massage it a little bit. But as  
10          long as we have some kind of a wrap-up next  
11          time that we can utilize with our narrative  
12          here, that would be helpful.

13         **MR. GRIFFON:** Yeah, so I -- I --

14         **DR. ZIEMER:** And I think SCA realizes --  
15         realizes what we're asking for here.

16         **MR. GRIFFON:** Yeah, and I think it --

17         **DR. ZIEMER:** I mean we'd sort of like to get  
18         them integrated into a summary.

19         **MR. GRIFFON:** Right.

20         **DR. ZIEMER:** That would make it clear that  
21         there's still the two kinds of animals in  
22         there, so --

23         **DR. MAURO:** We'll do that.

24         **DR. ZIEMER:** Yeah. And then --

25         **MR. GRIFFON:** So I think I can reword that and

1 say summary findings of the 20 cases --

2 **DR. ZIEMER:** Right, would be --

3 **MR. GRIFFON:** -- you know, are presented.

4 **DR. ZIEMER:** Right.

5 **MR. GRIFFON:** Yeah. And then the total number  
6 of deficiencies identified in the 20 cases, and  
7 we'll have a new number there instead of 46 or  
8 whatever.

9 **DR. ZIEMER:** Now I'd like to insert something  
10 else at this point. I didn't get to read this  
11 in full detail, but I pretty well skimmed it  
12 and I -- let me ask this. Have we described in  
13 here the SC&A process, including the NIOSH  
14 interactions, that get us to this report. In  
15 other words, have we pointed out that there  
16 have been the factual accurac-- well, not --  
17 there wasn't factual accuracy checks, but there  
18 have been --

19 **MR. GRIFFON:** The only -- I didn't --

20 **DR. ZIEMER:** -- sort of resolution of issues  
21 efforts made in this process.

22 **MR. GRIFFON:** You -- you can tell me if I need  
23 to -- to lay this process out more. I -- the  
24 only place I referenced it is in one short  
25 paragraph right before the numbered conclusions

1 and recommendations where it says (reading) By  
2 considering the audit findings in aggregate and  
3 through discussions with NIOSH, SCA and the  
4 Board during the expanded review meeting --  
5 which I think is what John Mauro has been  
6 referencing that as -- January, 2005 in McLean,  
7 Virginia, several conclusions are offered for  
8 consideration.

9 So that -- that's -- that was sort of  
10 referenced as this was the process with NIOSH,  
11 SCA and the Board involved. I didn't say  
12 comment resolution meeting. I referenced it as  
13 John was saying, the expanded review meeting,  
14 which I think -- you know.

15 **DR. ZIEMER:** That's good. That's what I was  
16 referring to.

17 **MR. GRIFFON:** Yeah.

18 **DR. ZIEMER:** Maybe -- maybe that has to be  
19 explained a little more to --

20 **DR. ANDERSON:** You may want to put after  
21 (unintelligible) just got through in that  
22 sentence, iterative -- 'cause this was kind of  
23 a back and forth.

24 **MR. GRIFFON:** Iterative discussions?

25 **DR. ANDERSON:** Yeah.

1           **MR. GRIFFON:** I'm okay with that, if -- if...

2           **DR. ZIEMER:** Well, I think the idea here is to  
3           give it a little more detail on the process  
4           because this -- this is a summary report  
5           (unintelligible).

6           **MR. GRIFFON:** All right.

7           **DR. ZIEMER:** Is that okay with the others?  
8           Okay, proceed.

9           **MR. GRIFFON:** And I might tap others for the  
10          process, if I -- if I forget exactly how we did  
11          this.

12          **DR. BEHLING:** Can I just make a comment? Mark  
13          --

14          **DR. ZIEMER:** Yes, Hans?

15          **DR. BEHLING:** -- take a look at page three of  
16          the report and I think you will find that I  
17          went through detail in explaining the  
18          chronology of events that led up through the  
19          expanded process, the dates, every  
20          (unintelligible) --

21          **DR. ZIEMER:** And maybe we can -- we don't need  
22          -- we can summarize that chronology.

23          **DR. BEHLING:** Yeah.

24          **MR. GRIFFON:** May I can pull some language from  
25          that, too.

1           **DR. BEHLING:** Yeah, I think you want to make  
2           sure that the two parallel each other --

3           **DR. ZIEMER:** Yes, thank you --

4           **DR. BEHLING:** -- at a minimum.

5           **DR. ZIEMER:** -- that's helpful.

6           **MR. GRIFFON:** Thank you, yeah. So then -- then  
7           going back to page one, I -- one point I wanted  
8           to make in that -- that large paragraph at the  
9           bottom of the page is -- and I -- I fooled  
10          around with this this morning. I told Roy that  
11          -- that I -- I think I -- I kind of went back  
12          and forth between findings and deficiencies,  
13          and I -- I think we need to -- to be  
14          consistent, or are those sometimes used dif--  
15          as different terms of art in SC&A's report or  
16          narratives? I've been kind of loose with the  
17          way I've been -- actually I -- I've usually --  
18          in the matrix we developed I think I've been  
19          referring to them as just findings, but SC&A in  
20          their summary table uses deficiencies. I want  
21          to --

22          **DR. ZIEMER:** Yes, but you've used deficiencies  
23          in a collective manner that -- then --

24          **MR. GRIFFON:** Yeah, I --

25          **DR. ZIEMER:** -- and then within the

1 deficiencies they grouped into several levels  
2 of importance. Right?

3 **DR. MAURO:** Yes, but it's -- turns out we have  
4 used one set of terminology when we work on our  
5 site profile reviews where we do make a very  
6 concerted effort to make a distinction between  
7 findings and observations. And I think  
8 unfortunately we have not been as disciplined  
9 in terms of communicating our findings and  
10 observations, deficiencies -- we've been a  
11 little looser in our language. We have been -  
12 - we refer to it in some cases as areas of  
13 concern. In some cases we say deficiency. So  
14 I -- perhaps there's a need for somehow  
15 developing a more precise characterization  
16 about findings. In our dose reconstruction  
17 reviews we really have not done that. We've  
18 been a little looser with regard to that.

19 **MR. GRIFFON:** I might at this point -- I think  
20 in most cases I'm going to edit this and use  
21 findings as the term.

22 **DR. WADE:** I think that would be appropriate.

23 **MR. GRIFFON:** Yeah, so just to (unintelligible)  
24 in my mind.

25 And then the second paragraph sort of -- I'm

1 not sure if I needed a new paragraph, but I --  
2 I transition from the SC&A summary sheet to  
3 sort of the Board's ranking method and  
4 distinguish why in fact we have this other  
5 matrix and -- and the utility of the other  
6 matrix is brought up on the top of the second  
7 page. And I thought -- and I just added this  
8 this morning, but I thought -- I think it would  
9 be useful, since we have a different ranking  
10 system here where we're looking at -- at case  
11 ranking and broader ranking, and that -- those  
12 terms can certainly be modified. But we should  
13 at least summarize what we have in this -- in  
14 this attachment, rather than just leaving it  
15 hang there for -- for no overall use,  
16 apparently. So I left some Xs there because,  
17 as we discussed yesterday, we don't have all  
18 the findings in that table currently so we  
19 still have to -- to fill that out. But I  
20 thought that would be useful and -- and -- you  
21 know.

22 And I also -- if you noticed, I put low level,  
23 medium level and high level, which is actually  
24 different than I had originally had in our  
25 matrix, which was zero to five, a numerical

1 ranking. But I wanted to sort of make it  
2 consistent at least with the SC&A approach so  
3 we -- I think we have to maybe modify one or  
4 the other, I'm not sure.

5 **DR. ZIEMER:** So basically you're going from a  
6 five rank to a -- did we use any decimals, or  
7 was it --

8 **MR. GRIFFON:** No, we didn't --

9 **DR. ZIEMER:** This is a 3.47.

10 **DR. WADE:** We will eventually; we haven't yet.

11 **DR. ZIEMER:** So you're saying you would go low,  
12 medium, high rather than -- or --

13 **MR. GRIFFON:** I guess I'm -- I'm opening --

14 **DR. ZIEMER:** -- or words --

15 **MR. GRIFFON:** -- I'm willing to --

16 **DR. ZIEMER:** -- in words -- words or one, two,  
17 three.

18 **MR. GRIFFON:** I'm willing to do that or -- or,  
19 yeah, the numerical ran-- I think they're --  
20 low, medium, high for this level of qualitative  
21 ranking I think suffices, you know, so that  
22 would be my --

23 **DR. ZIEMER:** How do the rest of you feel about  
24 that, as a --

25 (Affirmative responses)

1           **DR. ZIEMER:** That seems to be okay.

2           **DR. WADE:** Can I comment upon those paragraphs?

3           And it goes to the first of the paragraphs

4           we're discussing. In the middle it says

5           (reading) Although SC&A considered the majority

6           of findings, 42 of 46, to be low level -- I

7           would just like to see -- would suggest that

8           you finish that thought completely. The SC&A

9           document had 46 low and four medium and no

10          high. I think that's important to include,

11          just to finish -- even parenthetically, if --

12          because it leaves over --

13          **DR. ZIEMER:** What were the other four, yeah.

14          **DR. WADE:** What were the other four, that's

15          right.

16          **MR. GRIFFON:** With four medium findings --

17          **DR. WADE:** And no high.

18          **MR. GRIFFON:** -- parenthetically, okay.

19          **DR. WADE:** Right.

20          **DR. ZIEMER:** So this is all sort of intro --

21          **MR. GRIFFON:** Right.

22          **DR. ZIEMER:** -- and then you have your

23          conclusions. So all that -- let's --

24          **MR. GRIFFON:** Right.

25          **DR. ZIEMER:** Anything else on this introductory

1 material? So you would have a table describing  
2 the cases, you have the SC&A wrap-up table,  
3 you'd have our matrix table --

4 **MR. GRIFFON:** Uh-oh, we're out of line.

5 **MS. HOMOKI-TITUS:** I have a quick question --  
6 Liz Homoki-Titus with General Counsel's -- when  
7 -- in your first introductory paragraph could  
8 you just include some language out of the  
9 statute saying why you're doing this, just for  
10 the Secretary's office?

11 **DR. ZIEMER:** Oh, yeah, yeah. This document  
12 would --

13 **MS. HOMOKI-TITUS:** I can send to Lew what to  
14 put in there.

15 **DR. ZIEMER:** Right. Right.

16 **MS. HOMOKI-TITUS:** Thanks.

17 **DR. WADE:** Made us nervous when she got up.

18 **MR. GRIFFON:** Yeah.

19 **DR. MAURO:** If I may, just one observation, a  
20 nuance, that I want to make sure that -- when  
21 we did our review of the cases, we found, for  
22 example, a case where the dose may have been  
23 overestimated by a factor of 1,000. Now,  
24 that's an enormous number, but it still -- the  
25 outcome in that particular case was still non-

1           compensable. Now you ask yourself the  
2           question, is that low, medium or high when  
3           someone makes an error that underestimates a  
4           dose by a factor of 1,000 or overestimates the  
5           dose by a factor of 1,000 because of a major  
6           error in the calculation? If it still doesn't  
7           anywhere near come near having an effect on the  
8           PC outcome, we gave it a -- not important. So  
9           it's a -- it's a funny -- so we have ourselves  
10          a little bit of a dilemma.

11         **DR. ZIEMER:** Yeah, right, and we need to --

12         **MR. GRIFFON:** And also --

13         **DR. ZIEMER:** -- make clear that when we talk  
14          about significance, it's significance with  
15          respect to compensability as opposed to the  
16          technical value of dose --

17         **MR. GRIFFON:** Well, significance with --

18         **DR. ZIEMER:** -- or it could be --

19         **MR. GRIFFON:** -- respect to the dose estimate  
20          for the particular case.

21         **DR. ZIEMER:** Well, I think John's point is that  
22          the dose could be significantly in error, from  
23          a scientific point of view, because of the  
24          process where we're intentionally  
25          overestimating, but it does not affect

1           compensability of -- it doesn't affect the  
2           decision on compensability, which is the  
3           ultimate issue. We may need to clarify,  
4           though, what it is we're talking about when we  
5           talk about significance.

6           **MR. GRIFFON:** Right. Right, right. I --  
7           yeah, I just think we -- I think we need to do  
8           a little more discussion, too, on how much our  
9           audit can look at the -- whether or not cases  
10          were found to be likely overturned or  
11          compensable. You know, this -- this footnote  
12          three worries me a little, given our scope of  
13          work in our charge. You know, this seems to be  
14          stepping into the Department of Labor realm of  
15          -- of work on this whole compensation program,  
16          you know, that impacts the dose and may also  
17          impact compensability of the case. We -- we --  
18          in the scope of work we weren't -- we weren't  
19          charged, and neither was our contractor, in  
20          looking at compensability of these cases. So I  
21          know they said -- like may, may affect.

22          **DR. WADE:** That would be my reaction. I think  
23          the word may in there -- I find this  
24          acceptable. Now if the Board is -- has trouble  
25          with it, we can talk about it, but I also think

1 from the point of view of conducting an audit  
2 of the dose reconstruction process we do want  
3 to come as close as we can to that final  
4 question because that's the question that  
5 really dictates whether NIOSH is doing a good  
6 job. So I don't want us to just back away from  
7 this too much. The question is, is the Board  
8 comfortable with this as it's written with the  
9 word "may".

10 **MR. GRIFFON:** I guess the words we kept using  
11 in the scope -- and this was like after  
12 probably 30 edits -- was that the -- the  
13 approach was sufficient for the purposes of  
14 determining probability of causation.

15 **DR. ZIEMER:** Right, and if we can convey that -  
16 -

17 **MR. GRIFFON:** And I think that --

18 **DR. ZIEMER:** -- but what we don't want to  
19 convey, I don't think, is -- for example, these  
20 cases where there is an intentional  
21 overestimate, that --

22 **DR. ANDERSON:** But I don't think we  
23 (unintelligible) say that --

24 **DR. ZIEMER:** -- that we come up --

25 **DR. ANDERSON:** -- it was intentional. I think

1 he's saying that an error was not -- it has  
2 nothing to do with the intentional  
3 overestimate.

4 **MR. GRIFFON:** Right, this was --

5 **DR. ANDERSON:** It was an error in the  
6 calculation.

7 **UNIDENTIFIED:** No.

8 **MR. GRIFFON:** That's correct, that's --

9 **DR. ZIEMER:** Well, it could be both, I guess.

10 **DR. MAURO:** It could be both.

11 **DR. ZIEMER:** It could be both, particularly  
12 where there were disagreements as to how you go  
13 about doing the overestimating.

14 **DR. MAURO:** Yeah, we've seen both. In Rocky  
15 Flats cases we've seen deliberate overestimates  
16 which are clearly communicated in the report --  
17 the dose reconstruction report where it made it  
18 clear that listen, we're doing a deliberate  
19 overestimate here for efficiency. However, in  
20 other cases we found -- it's clear that there  
21 was a typo. The wrong number was put into IMBA  
22 and -- and the dose came out 1,000 -- 4,000  
23 times higher and still was not compensable, so  
24 there are those -- both (unintelligible due to  
25 microphone failure).

1           **DR. ZIEMER:** In one case it's a -- an error --

2           **MR. GRIFFON:** Right.

3           **DR. ZIEMER:** -- per se. In the other case,  
4           it's a result of the process, yeah. So we --  
5           we need some words --

6           **DR. ANDERSON:** We're not going to criticize the  
7           process, though. It was...

8           **DR. ZIEMER:** Yeah. Yeah.

9           **MR. GRIFFON:** Right.

10          **DR. ZIEMER:** Yeah. Okay.

11          **MR. GRIFFON:** Okay. So then are we moving --  
12          moving on to those conclusions or -- you ready  
13          or --

14          **DR. ZIEMER:** Just one -- okay. Any other  
15          comments on this introductory part? Yes,  
16          Henry?

17          **DR. ANDERSON:** I would just --

18          **DR. ZIEMER:** Use the mike for the recorder.

19          **DR. ANDERSON:** I just had a question on, you  
20          know, kind of the paragraph before the  
21          conclusions.

22          **DR. ZIEMER:** Yeah, we're going to expand that.

23          **DR. ANDERSON:** Yeah, but the (reading) several  
24          conclusions are offered for consideration.

25          I mean I'm not sure this is offered for

1 consideration. This is just our conclusions.

2 **MR. GRIFFON:** Yeah.

3 **DR. ANDERSON:** I mean what --

4 **DR. ZIEMER:** The Board reached the following  
5 conclusions.

6 **DR. ANDERSON:** Yeah, right.

7 **MR. GRIFFON:** Yeah, right.

8 **DR. ANDERSON:** Yeah. I mean you could say  
9 after considering the findings in aggregate da,  
10 da, da, da, da, da the Board agreed -- you  
11 know, something like that, a more...

12 **MR. GRIFFON:** All right.

13 **DR. ZIEMER:** Okay, let's go ahead with the  
14 conclusions.

15 **MR. GRIFFON:** Okay, the first one is the  
16 question that we -- we discussed a little bit  
17 yesterday, the format of the dose  
18 reconstruction final report and, you know, I  
19 think it's -- the -- the -- you know, it's also  
20 the question of the auditable trail within the  
21 -- the DR report, the fact that -- that all the  
22 dose input tables can be tied back to where  
23 they were actually -- where they actually came  
24 from, is -- is the example there.

25 **DR. ZIEMER:** Mark, I think we certainly were

1 all in agreement with this. I would wonder  
2 whether this would -- this is something we  
3 would ask the Board to take action on. I would  
4 question whether something like this would need  
5 to go to the Secretary, however, as a  
6 recommendation to the Secretary that these  
7 formats be changed. This is --

8 **MR. GRIFFON:** Well, it's more -- maybe format's  
9 a bad word. I think they should -- I think  
10 this definitely should -- not to mention that  
11 you've got a lot of DR reports that have  
12 already been issued in this format and that  
13 they -- you know, their reaction by -- by --

14 **DR. ZIEMER:** I'm sorry, I misunderstood. I  
15 thought you were talking about this report.  
16 You're talking about the individual dose --

17 **MR. GRIFFON:** Right, right, I'm sorry.

18 **DR. ZIEMER:** -- reconstruction reports that go  
19 to claimants.

20 **MR. GRIFFON:** I'm sorry. I'm sorry.

21 **DR. ZIEMER:** Okay, I'm back with you.

22 **DR. DEHART:** In fact what we're reporting here  
23 is what has been done.

24 **DR. ZIEMER:** Yes.

25 **DR. DEHART:** It's not --

1           **DR. ZIEMER:** Yes.

2           **DR. DEHART:** -- asking the Secretary --

3           **DR. ZIEMER:** Yes, I understand now, uh-huh.

4           **MR. GRIFFON:** Sorry. And also the reason for  
5 that one sentence being highlighted is I -- I  
6 mentioned this, and then I wasn't sure that  
7 this was actually true so I wanted to see if in  
8 fact -- I think this is a question for NIOSH or  
9 ORAU if these DR reports have been modified in  
10 any way.

11          **DR. BEHLING:** Well, I can --

12          **MR. GRIFFON:** Oh, okay.

13          **DR. BEHLING:** -- also make a comment on this  
14 because I've now received a second set of 18,  
15 and the format basically remains the same, but  
16 we are now being given additional information  
17 that makes the auditing process considerably  
18 less detailed and easier for us because we're  
19 given at this point a firm understanding of the  
20 data entries that you see on Attachment A that  
21 accompanies each of the DR report that says  
22 entries one through 25 are recorded dosimeter  
23 photon doses, so we don't have to go and  
24 identify what portions of the IREP input  
25 components are due to neutrons, to photons, to

1 the alpha internal, et cetera, et cetera.  
2 However, that has not -- I assume not been  
3 transmitted to the -- the claimant himself, so  
4 the -- the reading of your statement as it  
5 reads here, in part we have been given the  
6 benefit of an expanded explanation as to what  
7 the DR report contains, but I assume that that  
8 has not been transmitted to the claimants.

9 **MR. GRIFFON:** And -- and I'm a-- is anyone from  
10 --

11 **DR. WADE:** Well, Jim isn't here at the moment.  
12 Let's ask -- when he --

13 **MR. GRIFFON:** Dick --

14 **DR. ZIEMER:** Dick Toohey may be able to answer  
15 that, and -- and is the issue here -- this has  
16 to do with what the claimants understand the  
17 report is telling them and...

18 **DR. TOOHEY:** Yeah, the operative word is "may  
19 be able to answer" because I'm not absolutely  
20 sure, but I know we have been working with  
21 NIOSH on a formatting change on the report, and  
22 what it would primarily be doing is putting  
23 together an executive summary for the front  
24 part of the report in claimant-understandable  
25 language on what was done, how we got the

1 numbers, here are the numbers. And though, as  
2 you know, we don't make the compensability  
3 decision, there are some circumstances where,  
4 you know, it's pretty clear that --

5 **DR. ZIEMER:** Does this actually come from DOL?  
6 Is it a DOL letter that we're --

7 **DR. TOOHEY:** No.

8 **DR. ZIEMER:** -- talking about?

9 **DR. TOOHEY:** No, we're talking about when we --  
10 the process is --

11 **DR. ZIEMER:** When you notify the claimant of  
12 the dose.

13 **DR. TOOHEY:** Yeah, we submit the draft DR  
14 report to OCAS and then when it's approved they  
15 send it to the claimant, along with the OCAS-1  
16 form.

17 **DR. ZIEMER:** Right.

18 **DR. TOOHEY:** Then we do a closeout interview  
19 with the claimant, and then when all that's  
20 done the DR report is sent to DOL as a final  
21 for the adjudication process. I know we have  
22 been working -- my understanding is creating an  
23 executive summary up front without many other  
24 changes in the body of the DR report --

25 **DR. ZIEMER:** Jim Neton has returned, maybe --

1           **DR. TOOHEY:** -- but I'm not sure we implement  
2           that yet -- Jim?

3           **DR. ZIEMER:** Jim, we're talking about any  
4           modifications to the dose reconstruction report  
5           for the claimants that helps them to understand  
6           it easier, what has been done so far?

7           **DR. NETON:** That's in the works. I don't know  
8           what Dick has mentioned so far, but we're -- I  
9           think we're going to try to make a layman's  
10          summary, we -- what we call at NIOSH a one-  
11          pager, that kind of outlines what was done and,  
12          you know, fairly -- in layman's terms explains  
13          what was done, and then attach behind that a  
14          more detailed health physics report that would  
15          make it easier for folks like SC&A and others  
16          who are inclined to, you know, review the  
17          health physics data, it would be more clear to  
18          them what we've done. That's not finalized  
19          yet, but we're moving in that direction.

20          **DR. ZIEMER:** Okay, thank you.

21          **DR. TOOHEY:** That's good. We said the same  
22          thing without prior collaboration.

23          **MR. GRIFFON:** And no rehearsal, yeah, that's  
24          good.

25          **DR. ZIEMER:** Thank you.

1           **MR. GRIFFON:** And Paul, I think Roy maybe just  
2           captured it. Maybe we can refine that sentence  
3           to say this -- this enhanced DR report is under  
4           development by NIOSH -- is currently under  
5           development by NIOSH/ORAU.

6           **DR. WADE:** Uh-huh, that's fine.

7           **MR. GRIFFON:** That way we show that there's  
8           some action on the -- yeah.

9           **DR. ZIEMER:** Thank you.

10          **DR. TOOHEY:** Let me add one thing to that, if I  
11          may. I just recalled that the next 20, and  
12          maybe even the 20 after that, that get audited  
13          will probably not have been done with the new  
14          format.

15          **DR. ZIEMER:** Yes, understood. Okay, go ahead.

16          **MR. GRIFFON:** Then the next item -- Paul,  
17          should I move on to the next item?

18          **DR. ZIEMER:** Yes, I think so unless anyone has  
19          anything else on this first item.

20          **MR. GRIFFON:** Next item, internal quality  
21          control, and this was a -- I think Hans brought  
22          this point up yesterday in a summary fashion,  
23          and I tried in several of these items to  
24          reference back to (unintelligible due to  
25          microphone failure) -- the Board's list of

1 findings, and I'll call those findings. In  
2 this case when it says 8.x, that's one that I  
3 found in case number eight in the SC&A full  
4 report but it wasn't captured in my table yet  
5 so we've got to -- you know, I don't have it  
6 numbered, but it is in case eight and it's yet  
7 to be in the matrix.

8 But this -- this also -- by the way, and I'll  
9 also just ask Hans on the record here that I  
10 was looking for that one with the four thou--  
11 that's kind of a quality control issue that --  
12 that we saw that it didn't (unintelligible due  
13 to microphone failure) that, but the question  
14 that that would get by was a -- was a --

15 **DR. BEHLING:** There are numerous instances I  
16 believe where a person who has signed off --  
17 and I always look at the signatures of the dose  
18 reconstruction report and there's usually two  
19 signatures that involve people who supposedly  
20 have looked at the dose reconstruction report  
21 and signed off on it and my understanding would  
22 be that these people not just signed their name  
23 to it, but actually scanned through the  
24 document and at least did a cursory review,  
25 quality assurance check to see if it looks

1           okay. And there are some instances where I  
2           would say that's quite difficult and I wouldn't  
3           expect the QA auditor to go through line item  
4           by line item, but for instance, if you look at  
5           the attachment that accompanies the input to  
6           IREP and you see, for instance, entries for  
7           recorded dose that are defined for a normal  
8           distribution and you see parameter two is  
9           blank, you realize there's something missing  
10          because that would suggest to you instantly  
11          that there is an uncertainty that has not been  
12          captured.

13          On the other hand, if it was a factor of two  
14          for a high estimate, that should have been  
15          entered as a constant. So you can instantly  
16          look at the input and say here is an entry  
17          level that says for a normal distribution 30 to  
18          250 keV and there's a number here and that the  
19          parameter two is blank, that should instantly  
20          trigger somebody to say hey, wait a minute, if  
21          you -- if you doubled it and it's a maximized  
22          dose, it should have been entered as a  
23          constant. If it's a normal, there should have  
24          been an uncertainty, a sigma value. And so  
25          these kinds of things should be part of an

1 internal QA, and there are numerous instances  
2 where you don't have to go through lengthy QA  
3 checks but simply scan through it. For the  
4 guy who's really familiar with the -- the  
5 process, you can within -- within matter of  
6 minutes identify deficiencies by just looking  
7 at the IREP input.

8 And Mark had asked me this morning and I wasn't  
9 there to answer his question, but in the next  
10 18 there is a classic example, and I have the  
11 case here --

12 **DR. WADE:** We just need to -- we need to move  
13 on. I mean I don't think we need to do this at  
14 this particular time.

15 **DR. ZIEMER:** But we understand the point.

16 **DR. WADE:** Right.

17 **DR. ZIEMER:** Thanks.

18 **MR. GRIFFON:** And then number three --

19 **DR. DEHART:** Could we discuss (unintelligible)?

20 **MR. GRIFFON:** Yeah.

21 **DR. DEHART:** For the purposes of the letter,  
22 it's saying that we are recommending.  
23 Shouldn't that be more defined?

24 **DR. ZIEMER:** Clarify what you mean.

25 **DR. DEHART:** We have recommended, we're not

1 recommending. The procedures are in place or  
2 moving forward or something. I mean that's --  
3 this is just sort of hanging out there.

4 **MR. GRIFFON:** Oh, yeah.

5 **DR. DEHART:** And that isn't appropriate, I  
6 don't think, for a letter of this sort.

7 **DR. ANDERSON:** Yeah.

8 **MR. GRIFFON:** In other words we have -- we have  
9 to do this under a separate recommendation.

10 **DR. DEHART:** Yes.

11 **MR. GRIFFON:** Yeah, you're right. I didn't  
12 catch that. The Board has recommended that --

13 **DR. ZIEMER:** This is just information --

14 **DR. ANDERSON:** Yeah.

15 **DR. ZIEMER:** -- that we've rec-- this is what  
16 we've done to address that. We're not asking  
17 the Secretary to take specific action.

18 **MR. GRIFFON:** Right. Sorry, that's --

19 **DR. ZIEMER:** And it's my understanding that  
20 quality assurance procedures are sort of in  
21 flux anyway and progressing, is that -- that's  
22 correct in both cases, they're being developed  
23 as -- as we proceed. Thank you.

24 **DR. DEHART:** So I think we should -- that  
25 should be in a terminology that finalizes it.

1           **MR. GRIFFON:** It just -- it's changing it to  
2           has recommended, is that sufficient or are you  
3           --

4           **DR. DEHART:** I'll help you reword it.

5           **MR. GRIFFON:** Okay, that's fine.

6           **DR. ZIEMER:** Okay, let's go ahead.

7           **MR. GRIFFON:** Item three, procedures fragmented  
8           and difficult to interpret. That -- that was  
9           actually a summary term that was used several  
10          times in the SC&A report so I'm not completely  
11          wedded to that language, but it gets the point  
12          across. Again, cases are referenced -- where I  
13          have the Xs, I didn't have those numbered.  
14          And this -- now here's a question on the  
15          action, but I think we've sort of said that  
16          we'll -- we'll withhold recommendations at this  
17          point on most of these because we have a full  
18          procedures review being done under task three,  
19          and it's more appropriate to -- to tackle that  
20          at that point.

21          **DR. ZIEMER:** And until we have completed that I  
22          wonder if the title to the third item may need  
23          to be a little more generic. There may be --  
24          fragmented is one thing and difficult is  
25          another, but there may be some other kinds of

1 issues that emerge. So is there a more generic  
2 title for that section? Procedures...

3 **DR. DEHART:** Procedure clarification and  
4 modification?

5 **DR. ZIEMER:** Something like that. Which would  
6 include these specific cases, but there may be  
7 other things that we're not aware of.

8 **MR. GRIFFON:** Or -- I don't know, can it be as  
9 simple as procedures -- procedures issues or  
10 procedures --

11 **DR. ZIEMER:** Yeah, procedural issues, sure.  
12 Okay. Any other input on that section for  
13 Mark?

14 (No responses)

15 **DR. ZIEMER:** Now let me insert at this point,  
16 because we haven't been definitive on exactly  
17 what these changes are, what -- after we get  
18 through this I'm going to call for a motion to  
19 accept this conceptually --

20 **MR. GRIFFON:** Right.

21 **DR. ZIEMER:** -- 'cause -- 'cause we're going to  
22 have a document that's the polished version of  
23 this, with the input that we've given here -- I  
24 don't want to do all the word-smithing here at  
25 the table today, if that's agreeable.

1           **DR. ANDERSON:** We'll just all pile it on Mark.

2           **MR. GRIFFON:** That's agreeable, that's --

3           **DR. ZIEMER:** Well, no, we may get a couple to  
4 volunteer to help with that, and I certainly  
5 want to be involved before the next meeting,  
6 also, so that we get -- maybe two or three of  
7 us can do that, but as long as we have the idea  
8 of what -- what modifications we want to make,  
9 then we can do some additional polishing at  
10 that time to get these concerns in place and  
11 get a revision of this ready for the Board that  
12 we can at least conceptually approve.

13           **DR. DEHART:** A question that I would have is is  
14 this to be accompanied by the full report?  
15 Because we're constantly referring to the  
16 cases.

17           **DR. ZIEMER:** Well, in essence, that -- yeah, I  
18 don't know that the report -- this is the wrap-  
19 up -- I mean the report stands on its own.  
20 This will have the -- its appendices as  
21 attachments.

22           **MR. GRIFFON:** Attachments.

23           **DR. ZIEMER:** The report wouldn't necessarily be  
24 attached to this that went to the Secretary, I  
25 don't believe.



1 explains that while this -- it is accepted by  
2 SC&A, and I believe the Board, that the -- in  
3 these ca-- in these particular cases the  
4 identified information within the report likely  
5 would not have affected any -- any dose  
6 estimate in a significant manner because they  
7 mostly involved overestimates using high five  
8 or the 28 radionuclides in some cases anyway,  
9 we just wanted to -- to identify that this  
10 information could in fact impact future cases.  
11 So it's not really -- I guess it's a -- a --  
12 Paul, you had the word for it yesterday -- a,  
13 you know, just a indication that this -- this  
14 information shouldn't be forgotten about.  
15 There was a lot of -- and further than that,  
16 the idea --

17 **DR. ZIEMER:** This was what we talked about as  
18 the watch list --

19 **MR. GRIFFON:** Yeah.

20 **DR. ZIEMER:** -- and -- and --

21 **MR. GRIFFON:** But it is a little further than  
22 that in that the idea has to come through --  
23 because it raises this question of credibility.  
24 If the individuals get back their case reports  
25 and they say well, geez, they didn't even -- I

1           gave them all those five incidents I was  
2           involved in and nobody even talked about those;  
3           you know, what'd they do with those? I think  
4           that's part of -- it also ties back into the DR  
5           report modification, just the explanation that,  
6           you know, we considered the information  
7           provided in the CATI interview. While we  
8           understand that you were involved in several  
9           incidents, we have taken a very, you know,  
10          overestimating approach with the internal dose  
11          based on, you know, the highest internal doses  
12          ever received on -- highest intakes ever  
13          received on the site or some--

14         **DR. ANDERSON:** There needs to be an  
15          acknowledge--

16         **MR. GRIFFON:** Something to ack-- some-- yeah.

17         **DR. ANDERSON:** -- acknowledgement that, you  
18          know, it was heard and recorded and --

19         **MR. GRIFFON:** And considered.

20         **DR. ANDERSON:** -- considered.

21         **MR. GRIFFON:** And considered, you know, and  
22          that we didn't have to go back and try to  
23          recalculate those 'cause we knew we were  
24          overestimating with this other approach. But  
25          at least that way there -- there's -- it -- I

1 think it lends credibility to the product in  
2 the eyes of the public that, you know, they did  
3 follow up on what I asked them to look into.

4 **DR. ZIEMER:** Okay. Then let me jump in at this  
5 point then with -- with -- I'll call it an  
6 organizational issue on this now. The way this  
7 is currently set up, and this -- this -- take  
8 this to be a friendly suggestion. I think what  
9 we have listed here as conclusions and  
10 recommendations are what we called yesterday  
11 items for improvement, which were separate from  
12 the main conclusions which now get hidden in  
13 the introduction, which has to do with -- with  
14 the ac-- these findings, the findings.

15 **MR. GRIFFON:** Right. Well, that was sort of  
16 intentional, though, 'cause I don't think those  
17 really are the main conclusions out of all  
18 we've done so far, so -- you know, not that I'm  
19 not considering those, but I think --

20 **DR. ZIEMER:** Well --

21 **MR. GRIFFON:** -- to say that 42 out of 46 of  
22 these cases had low level findings -- you know,  
23 what's that mean based on what we were  
24 reviewing?

25 **DR. ZIEMER:** Well, it only has meaning for

1           these 20 cases at this point, but yesterday we  
2           talked about asking the question were there --  
3           have we observed any cases that would impact  
4           compensability.

5           **MR. GRIFFON:** That -- this is what I was  
6           concerned about going, right.

7           **DR. ZIEMER:** Well --

8           **DR. DEHART:** But that...

9           **DR. ZIEMER:** -- might -- can -- to the extent  
10          that these 20 cases tell us anything one way or  
11          the other about that, it seems to me that's  
12          still an important point, even though it's a  
13          small sampling at this point. It seems to me  
14          we still have to identify that -- and we have -  
15          - and there's a level of importance to that, I  
16          think to the program: Did you find any cases  
17          in this first set that -- where compensability  
18          would likely have been changed.

19          Then we talked about areas of improvement,  
20          which are these things you've just gone through  
21          here, these conclusions. And then we also  
22          talked about what we sort of named the watch  
23          list, which was another category of things that  
24          we weren't necessarily making a definitive  
25          recommendation on, but we were calling

1 attention to things that we need to pay  
2 attention to down the road sort of thing and --  
3 which is another -- I'm thinking about another  
4 sort of heading for the things starting with --  
5 **MR. GRIFFON:** I still think -- I still think we  
6 should stick with more of the sufficient for  
7 purposes of determining the probability of  
8 causation.

9 **DR. ZIEMER:** That's fine.

10 **MR. GRIFFON:** I really was reluctant to put in  
11 there that, you know, none of these would  
12 likely have overturned compen-- you know.

13 **DR. ZIEMER:** All right. Yeah, yeah. I'm --  
14 I'm okay with those words. I was just trying  
15 to see if we shouldn't, when we have our -- our  
16 conclusions, have some conclusions about those  
17 -- that issue, sufficient for compen-- for the  
18 finding, and then the areas that need  
19 improvement and then these other things, sort  
20 of a three-part -- I mean you have it all here.  
21 I mean it's an organizational issue. I'm just  
22 raising it as -- I don't -- I want to be sure --  
23 -- and Mark, I think your concern is that we put  
24 too much weight on the prior question with only  
25 20 samples.

1           **MR. GRIFFON:** Right.

2           **DR. ZIEMER:** So is there a way we can --

3           **MR. GRIFFON:** Especially -- here -- see, here's  
4           --

5           **DR. ZIEMER:** My point is that this point here  
6           in that paragraph is, in essence, part of our  
7           conclusions, the conclusions of our auditor,  
8           that in essence we are then accepting.

9           **DR. ANDERSON:** But --

10          **MR. GRIFFON:** So maybe putting --

11          **DR. ANDERSON:** But our --

12          **MR. GRIFFON:** -- the last part as just  
13          recommendations -- I mean I put that stuff up  
14          front, but I don't think from that we can --  
15          can -- we necessarily have any recommendations,  
16          yeah.

17          **DR. ZIEMER:** And maybe that's the way to do it.  
18          Maybe it's --

19          **MR. GRIFFON:** So that --

20          **DR. ZIEMER:** Conclusions, recommendations and  
21          then ongoing concerns or something.

22          **DR. WADE:** Yeah, I agree with that -- makes  
23          sense.

24          **DR. ZIEMER:** Are you comfortable with that  
25          approach?

1           **MR. GRIFFON:** Sort of. I'm -- I'll tell you  
2 why I'm a little nervous, quite frankly. It's  
3 that we're starting to write an executive  
4 summary with conclusions on -- on this 20-case  
5 audit where there's a lot of details that I  
6 think are being overlooked within this audit  
7 report. You know, we're talking from this  
8 matrix, this summary matrix. When I go through  
9 all these findings, my -- last night when I  
10 compiled this thing, you know, I asked myself  
11 the questions of what happened to the Savannah  
12 River finding, what happened to -- you know,  
13 and not only the ICRP-30 versus 68 issue, the -  
14 - you know, tritium versus organically-bound  
15 tritium issue. Defer it to the site profile  
16 discussion, I agree, but not captured in that  
17 summary list anymore. I think there might be  
18 explanations to a lot of those, but I think --  
19 you know, I'm just -- I'm just a little nervous  
20 about, you know, those details here. And also  
21 we don't have a wrap-up of the -- of the five  
22 AW-- I guess we can -- will include that now,  
23 of the five AWEs, 'cause there's different  
24 types of items, but -- so I guess -- something  
25 to that effect I think I'm comfortable with. I

1           just think we -- we -- we as a subcommittee  
2           have to be comfortable with the details that  
3           support this front-end matrix.

4           **DR. WADE:** Let me offer sort of an observation,  
5           and I think all of the ideas that have been put  
6           out are good. I think Paul comes to a place  
7           where he said let's have some conclusions and  
8           some recommendations. Then Mark, you raise I  
9           think the excellent point that we don't want  
10          the reader to be confused that this is anything  
11          but an early observation of one part of a  
12          multi-tasked review.

13          **MR. GRIFFON:** Right.

14          **DR. WADE:** I think we need to point that out.  
15          I mean I think the Board reserves the right in  
16          summary, be it on dose reconstruction or the  
17          overall audit of the NIOSH activity, to come  
18          back and re-conclude, and all we're doing is  
19          offering an observation at this early junction  
20          and I think it's important that we put those  
21          limiters in there.

22          **DR. DEHART:** Would the term "concern" be  
23          appropriate here?

24          **DR. ZIEMER:** Right, I think it would for that  
25          last category, ongoing concerns or something.

1           And in fact, you know, one might argue even on  
2           these recommendations that they still are based  
3           on a very limited number of observations  
4           anyway, so one way or the other we have some  
5           recommendations that are based on a limited  
6           sample. But I think you've set the framework  
7           very well. It's clear that this is just the  
8           first 20, that the intent is to sample this two  
9           and a half percent of whatever the number is  
10          and so on, so I think in the proper framework  
11          that could be fine. Well --

12         **MR. GRIFFON:** In principle right now I'll try  
13          to -- we'll try to figure out --

14         **DR. ZIEMER:** Yeah.

15         **MR. GRIFFON:** -- how to wordsmith that.

16         **DR. ZIEMER:** I was trying to separate out what  
17          in essence are -- maybe conclusions isn't the  
18          right word, but certainly the findings of our  
19          auditor include the -- the potential, or lack  
20          thereof, of --

21         **MR. GRIFFON:** What if I -- what if I had a  
22          section that just introduced this as the  
23          summary of findings -- 'cause that's what we're  
24          discussing is the summary of findings.

25         **DR. ZIEMER:** Sure, that would be fine, yeah.

1           **MR. GRIFFON:** And then ongoing -- ongoing  
2 concerns, for that last -- for those last --

3           **DR. ZIEMER:** Yeah, summary of findings and then  
4 recommendations for improvement and ongoing  
5 concerns, something like that. It's just an  
6 organizational issue that --

7           **MR. GRIFFON:** Right.

8           **DR. ZIEMER:** -- helps sort out the different  
9 things that we've identified.

10          **MR. GRIFFON:** That's fine. I agree.

11          **DR. ZIEMER:** So the part, starting I guess with  
12 the CATI part, is the -- our so-called watch  
13 list, the ongoing concern issue. Right?

14          **MR. GRIFFON:** Oh, so these are -- one, two and  
15 three you would consider --

16          **DR. ZIEMER:** Well, yesterday that's -- we had  
17 identified the items for improvement. We had  
18 the report to claimant, the audit trail -- did  
19 you mention the audit trail?

20          **MR. GRIFFON:** It comes up in the DR report.

21          **DR. ZIEMER:** Yeah, and then the concerns about  
22 procedures and quality assurance. And then we  
23 had the --

24          **MR. GRIFFON:** Okay.

25          **DR. ZIEMER:** -- validation/verification and so

1 on and the other (unintelligible).

2 **MR. GRIFFON:** Okay. I wasn't trying to break -  
3 - okay. We can break those out if we want to.  
4 So recommendations, then the other three will  
5 be ongoing concerns.

6 **DR. ZIEMER:** Anything else on the CATI part?  
7 Suggestions there?

8 (No responses)

9 **MR. GRIFFON:** The -- if everybody's ready, the  
10 second item there then, the validation and  
11 verification question, and I tried to define  
12 what I meant -- I think this came -- came up in  
13 several cases that we looked at. A lot -- many  
14 of them were the Savannah River high five.  
15 That's mainly 'cause that's just a very easy  
16 one to explain what we mean by validation.  
17 There was -- one of these findings,  
18 deficiencies, whatever -- one of these findings  
19 that I list here was a question where there was  
20 only annual -- some annual dosimetry summary  
21 data, at least for one or two years of the  
22 entire body of -- of external data available  
23 for that individual, so a minor point on that  
24 particular case, but a question in ongoing --

25 **DR. ZIEMER:** (Unintelligible)

1           **MR. GRIFFON:** -- (unintelligible), yeah.

2           **DR. ZIEMER:** Okay, any other comments on that  
3 section? And again, these are just items just  
4 to give a heads-up. We have to look at these  
5 in the subsequent cases to see what -- the  
6 picture emerges.

7           **DR. ANDERSON:** Yeah, I think the issue is one -  
8 - if this is the systematic approach, we're  
9 concerned. And you know, we haven't seen  
10 anything serious, but it has -- has the  
11 potential here to --

12          **DR. DEHART:** I think when we're discussing this  
13 --

14          **DR. ANDERSON:** -- to be --

15          **DR. DEHART:** -- we were interested in assuring  
16 that there was sampling --

17          **DR. ANDERSON:** Yeah.

18          **DR. DEHART:** -- where it was possible to do  
19 calculations --

20          **DR. ANDERSON:** Yeah.

21          **DR. DEHART:** -- and make sure that you had  
22 validation.

23          **DR. ANDERSON:** Yeah.

24          **MR. GRIFFON:** Yeah, so put that on the radar,  
25 that --

1           **DR. ANDERSON:** Yeah.

2           **MR. GRIFFON:** -- they -- they --

3           **DR. ANDERSON:** I think that's the --

4           **MR. GRIFFON:** And I'm sure they are considering  
5 the validation and verification.

6           **DR. ANDERSON:** Yeah.

7           **MR. GRIFFON:** Right. And the last item is  
8 consistency of cases and/or concern with  
9 efficiency approach. I'm not sure about that  
10 title, but the idea here was -- and this is a  
11 discussion that we had at the McLean, Virginia  
12 meeting. Some of these question -- or this  
13 question came up. You know, certainly the idea  
14 of -- you know, I can think of the medical X-  
15 ray situation where in some cases overestimates  
16 were used which assigned a -- quite a higher  
17 dose than you would if you had correctly  
18 (unintelligible due to microphone failure) not  
19 affecting the -- necessarily the dose  
20 significantly, so really no major problem as  
21 far as the case was concerned. Where we  
22 started thinking -- theoretically, anyway --  
23 that this might come -- lead to a problem is if  
24 you have similarly-located workers. I can  
25 picture this sort of thing happening at K-25,

1           having been down there a lot.  Retirees getting  
2           together for breakfast and comparing notes, and  
3           you might say oh, they'd never look at these  
4           things together, but they -- they do.  And  
5           they'd say well, how the heck did you get 40  
6           rem when I only got, you know. 6.5 rem and I  
7           was there in the hottest places -- you know.  
8           So and it -- and it can be explained because  
9           one person had a certain type of cancer and  
10          they used the efficiency method and, you know,  
11          the other person was a different situation and  
12          they used the more enhanced approach.  But to  
13          these two sitting in Oak Ridge, Tennessee, it  
14          may not be a -- you know, and that -- that --  
15          just that concern out there that is this going  
16          to create a credibility problem down the line.  
17          **DR. ZIEMER:**  And part of this has to do with  
18          how that dose is explained, also, to the  
19          person.  We've actually had some of that in our  
20          public meetings where someone has gotten up and  
21          said so-and-so and I both have exactly the same  
22          dose, down to the decimal point, and they're  
23          astounded by this, and they say how can that  
24          possibly be.  And I mean we've heard that a  
25          time or two in the public meetings, which means

1           they don't understand that there's a reason  
2           why.

3           **MR. GRIFFON:** Well, and also -- it also makes  
4           them won-- you know, they -- they --

5           **DR. DEHART:** Question.

6           **MR. GRIFFON:** -- they question --

7           **DR. ZIEMER:** Right, 'cause they know very --

8           **MR. GRIFFON:** I thought -- I thought this was  
9           an individual dose assessment.

10          **DR. ZIEMER:** Right, right.

11          **MR. GRIFFON:** Why aren't you looking at mine.

12          **DR. ZIEMER:** Yeah. So somehow that needs to be  
13          addressed more.

14          **MR. GRIFFON:** Right, and just an ongoing  
15          concern, no --

16          **DR. ZIEMER:** Right.

17          **MR. GRIFFON:** -- recommendation here. Right.

18          **DR. ZIEMER:** Okay. Are you ready to make a  
19          motion to recommend this, in concept, to the  
20          Board?

21          **MR. GRIFFON:** Someone else (unintelligible).

22          **DR. ZIEMER:** Yeah. Yeah, Mike is so moving?

23          **MR. GIBSON:** Yeah.

24          **DR. ZIEMER:** And a second?

25          **DR. ANDERSON:** Second.

1           **DR. ZIEMER:** Okay. Any further discussion?  
2           And this -- this would be accompanied by  
3           hopefully some revised -- the -- revised  
4           appendices and so on. We may have some  
5           additional polishing to do, but at least will  
6           be at that point for the Board to present that.  
7           Okay, all in favor say aye?

8                               (Affirmative responses)

9           **DR. ZIEMER:** And any opposed?

10                              (No responses)

11           **DR. ZIEMER:** And any abstentions?

12                              (No responses)

13           **DR. ZIEMER:** The motion carries. Thank you.  
14           Thank you, Mark and Roy, for your work.

15           **DR. WADE:** Thank you.

16           **DR. DEHART:** I think there's going to be  
17           considerably more development of this once we  
18           have the summary for all 20 cases, since we  
19           were really talking 15 here.

20           **DR. ZIEMER:** Yes. Dick Toohey -- address us a  
21           moment.

22           **DR. TOOHEY:** Thank you. I'd just like to make  
23           a comment for your consideration. You know, it  
24           doesn't specifically say in this report what we  
25           know and that we did in fact in these 20 cases

1           get the compensation decision correct. And as  
2           Dr. Ward (sic) mentioned yesterday, it's  
3           probably something -- and you did go into a  
4           little bit on discussion -- that should be one  
5           of the things specifically mentioned up front.  
6           And I'm just concerned that you're raising  
7           these other issues because of concern that  
8           could tend to undermine the credibility of the  
9           program. And if we don't explicitly say that  
10          at least this initial audit of 20 cases did  
11          find that we were getting the compensation  
12          decision correct -- which is really the  
13          ultimate, perhaps the only, purpose of doing  
14          the dose reconstructions -- that, in and of  
15          itself, would undermine the credibility of the  
16          program. Thank you.

17          **DR. ZIEMER:** Yeah, actually this is one -- the  
18          point I was making, Richard, was to actually  
19          have at the front end of the conclusions and  
20          break that out. It probably wouldn't state  
21          that we had the compensation decision correct,  
22          but that the results are unlikely to have  
23          affected compensation, or something to that  
24          effect (unintelligible) --

25          **MR. GRIFFON:** Sufficient for purposes of

1           determining (unintelligible) --

2           **DR. ZIEMER:** I think that that will show up  
3           more clearly in the revisions so that that's  
4           right up front. After the intro that will be  
5           right at the front end and these other things  
6           will be listed as items for improvement,  
7           whereas the others will be up front as the  
8           front-end conclusions based on the work of the  
9           auditor. And then the other will be our  
10          ongoing issues -- concerns. Okay. Thank you  
11          very much.

12                            **BETHLEHEM STEEL SITE PROFILE**

13          The next item -- main item for today, really --  
14          is the Bethlehem Steel site profile and how to  
15          close on that. Now let us identify what we  
16          have. We have the -- we have the -- the  
17          Bethlehem Steel initial site profile. We have  
18          the SC&A review of the site profile, which was  
19          dated October, 2004. We have NIOSH comments on  
20          the review, from December. And let's see --

21          **DR. WADE:** I also have, Paul, the motion -- a  
22          copy of the motion that the Board took at the  
23          last meeting concerning Bethlehem that I could  
24          give out if that would be of --

25          **DR. ZIEMER:** That would be -- that would be

1 helpful. And then also -- I just want to ask  
2 if the Board members received -- I've received  
3 some other materials, including some from Ed  
4 Walker, and I'm -- okay, the Ed Walker  
5 materials I'm going to distribute here.

6 (Pause)

7 **DR. ZIEMER:** Now does every-- the copies of the  
8 Bethlehem Steel action --

9 **DR. WADE:** Did you --

10 **DR. ZIEMER:** -- does everybody have a copy of  
11 that?

12 (Pause)

13 **DR. ZIEMER:** Now who can give us an update on  
14 where we stand on the resolution of technical  
15 issues? Can either Jim or --

16 **DR. WADE:** Let's start with Jim and then --

17 **DR. ZIEMER:** Jim and then -- and then John,  
18 perhaps.

19 **DR. NETON:** As you recall, NIOSH had two sets  
20 of reviews of the -- of SC&A's review. In the  
21 December meeting we provided some preliminary  
22 recom-- comments. The Board instructed NIOSH  
23 to go back and work with SC&A to resolve any --  
24 any issues that we might have. We did that,  
25 and we came back at the February Board meeting

1 with what I'll call a White Paper describing  
2 our approach to resolving those issues. We  
3 heard the Board's motion and -- that carried,  
4 and are working now toward resolving those  
5 issues in accordance with the motion that was  
6 passed.

7 We're revising the site profile. We're  
8 actively working on it and we're moving along  
9 the lines of the Board's recommendations. We  
10 have one outstanding issue we know that we owe  
11 the Board, which is characterization of oro-  
12 nasal breathing at steel mills and the  
13 respiratory rate during heavy work at those  
14 mills. Other than that, though, I believe that  
15 the recommendations that we made and put forth  
16 at the February meeting were essentially  
17 accepted and we're moving towards that end as  
18 outlined in that White Paper to revise the  
19 profile as appropriate.

20 **MR. GRIFFON:** Have we -- do we have copies of  
21 those -- those White Paper that you...

22 **DR. NETON:** That was handed out at the Board  
23 meeting in February. I didn't bring copies  
24 with me. I may have a copy and we can get  
25 copies made, but I could summarize where we're

1 heading with that, if you'd like to --

2 **MR. GRIFFON:** Yeah, (unintelligible) --

3 **DR. WADE:** Please.

4 **MR. GRIFFON:** -- sorry. Didn't prepare as much  
5 for (unintelligible).

6 **DR. NETON:** We have a number -- that White  
7 Paper translated into twelve Action Items on  
8 our part that we're using to track our changes.  
9 The first issue was the air monitoring, purpose  
10 and applicability. We committed to explaining  
11 in more detail how the air monitoring program  
12 at Bethlehem Steel and Simonds Saw and Steel  
13 were representative of the workers'  
14 environment, at least to the extent -- using a  
15 maximizing approach for assigning doses, and  
16 we've done a lot of work in that area. We've  
17 committed to re-evaluating the air  
18 concentration data. We're going to scrap the  
19 triangular distribution and, as SC&A suggested,  
20 use a lognormal distribution to characterize  
21 the workers' environment -- internal exposure  
22 environment. And on top of that we will use  
23 the 95th percentile of those generated  
24 lognormal distributions and apply it to all  
25 workers.

1           In the original document we used the triangular  
2           distribution and sampled it. Now we're going  
3           to generate a lognormal and assume that all  
4           workers breathed the 95th percentile of the air  
5           sample concentrations.

6           There was an issue related to the low energy  
7           bounding matrix that was in the original  
8           profile. Since that was never used to make any  
9           compensation decisions -- or to assign  
10          probability of causations by Labor, we're  
11          removing that table from the document.

12          The fourth issue was the oro-nasal breathing  
13          and breathing rate, and I mentioned that we're  
14          working forward on that.

15          The fifth issue was the ingestion model to tie  
16          in with the residual contamination model.

17          We're working on that.

18          These sort of go together. SC&A recommended  
19          that -- or believed that residual -- residual  
20          contamination in between rollings was an issue,  
21          and we did not evaluate that in our original  
22          profile, and we're going to do that. So we're  
23          going to include both ingestion and inhalation  
24          from resuspension in between rollings and after  
25          the cessation of the last rolling into the dose

1 reconstructions.

2 The particle deposition parameters, I think  
3 SC&A at that -- SC&A agreed at the meeting that  
4 the five micron particle size was likely  
5 appropriate for that exposure environment, so  
6 we're working on that -- we're not working on  
7 that; they've accepted that.

8 There were some issues raised in the SC&A  
9 comment that we did not really address site  
10 expert input, and we're going to great lengths  
11 to try to explain how the site worker input was  
12 evaluated and incorporate -- and how the models  
13 that we developed are sufficiently claimant-  
14 favorable to over-arch any of those concerns.  
15 Medical X-ray data, there was some concern that  
16 we didn't evaluate photofluorography, and we're  
17 actively searching AWEs for the use of  
18 photofluorography. And once we finalize that,  
19 if it looks like that was a X-ray exposure  
20 modality back then, we'll include that in the  
21 profile.

22 And I think that -- that covers the main -- the  
23 main points.

24 **DR. ZIEMER:** Jim, what's the timetable on this?  
25 Are we likely to have something at next month's

1 Board meeting or... I mean you have a lot of  
2 things you're working on there, we understand  
3 that, but I just -- realistic.

4 **DR. NETON:** I'm reluctant to commit to having  
5 something --

6 **DR. ZIEMER:** Well, I'm not asking you to  
7 commit, I'm just -- really --

8 **DR. NETON:** There is a --

9 **DR. ZIEMER:** If you said --

10 **DR. NETON:** It's possible --

11 **DR. ZIEMER:** -- you were within a week of  
12 finishing or --

13 **DR. NETON:** No.

14 **DR. ZIEMER:** No. Okay.

15 **DR. NETON:** This is a substantial revision. As  
16 you recall, the original profile was I think  
17 something like 14 pages long. I expect this  
18 document to be substantially larger. I mean  
19 there's a lot of references we're tracking  
20 down. We've made excellent progress, but it  
21 does take time to do it right.

22 **DR. ZIEMER:** Yeah.

23 **MR. GRIFFON:** I -- oh.

24 **DR. ZIEMER:** Yeah, go ahead, Mark.

25 **MR. GRIFFON:** I just had a question. As we're

1 looking at the materials that were handed out  
2 from Ed Walker whether -- I mean he's brought  
3 this up several times at public comment and  
4 stuff about the additional rollings. Have you  
5 researched that any further? Is there any  
6 headway on that?

7 **DR. NETON:** The lead agency, of course, in re-  
8 evaluating these additional rollings is the  
9 Department of Labor. While we work closely  
10 with the Department of Labor, our main task --  
11 as we view it -- is to research the exposure  
12 conditions. As we identify additional  
13 exposures and documents, we pass those on to  
14 the Department of Labor. But we are not  
15 actively searching for additional rollings.  
16 We're just working with --

17 **MR. GRIFFON:** So D-- DOL is responsible for  
18 finding the --

19 **DR. NETON:** The covered exposure period.

20 **MR. GRIFFON:** The covered exposure period,  
21 right. And to the extent that you've found  
22 documentation on other process...

23 **DR. NETON:** Oh, we pass everything along to  
24 Department of Labor. I just don't --

25 **MR. GRIFFON:** So you're not actively looking

1 for that is what you're saying.

2 **DR. NETON:** We're actively looking for exposure  
3 documents, and if they show that exposure has  
4 occurred in different years, we would pass  
5 those on directly to Department of Labor. But  
6 we are not actively looking to expand the  
7 covered exposure period. I mean we will  
8 collaborate with the Department of Labor.

9 **DR. ZIEMER:** Is it fair to say that Ed's  
10 material has, either directly or through you,  
11 gone to Labor? I assume that they have the  
12 information, do they not? Ed understands it's  
13 -- it's --

14 **DR. NETON:** Yeah, the additional information  
15 that we've found has been found -- discovered  
16 at Hanford and Savannah River. I passed those  
17 on to Department of Labor, that's correct.

18 **DR. ZIEMER:** I'm asking about Ed's own  
19 assertions, has he provided those -- do we know  
20 --

21 **DR. NETON:** Oh, the document that was sent to  
22 you?

23 **DR. ZIEMER:** Yeah.

24 **DR. NETON:** I don't -- I don't know that that  
25 was -- has been transmitted to the Department

1 of Labor. You're talking about the letter that  
2 the Board received --

3 **DR. ZIEMER:** Yeah, does Ed himself provide that  
4 to Labor or --

5 **DR. NETON:** I don't know.

6 **DR. ZIEMER:** -- is he relying on us to do that,  
7 or do you know?

8 **DR. NETON:** I really don't know the answer to  
9 that.

10 **DR. ZIEMER:** I don't know, either.

11 **DR. WADE:** I could call Ed and ask him and --

12 **DR. NETON:** Yeah, I mean we'd certainly --

13 **DR. WADE:** -- at his request would transmit the  
14 material to the Department of Labor.

15 **DR. NETON:** Yeah.

16 **DR. ZIEMER:** It seems to me that, you know, if  
17 that's all it takes and we can say, you know,  
18 it's their baby but we'll be glad to help you  
19 send it on to them or something.

20 **MR. GRIFFON:** I'm not -- I must admit I haven't  
21 reviewed his handout in depth -- or at all, I  
22 should say --

23 **DR. ZIEMER:** No.

24 **MR. GRIFFON:** -- but --

25 **DR. ZIEMER:** Most of his points have been --

1 he's raised them before.

2 **MR. GRIFFON:** Well, the question I have is are  
3 all the additional rollings he's referencing  
4 outside the time period currently defined or  
5 are there some that are within the time period?

6 **DR. NETON:** I don't know that any of those are  
7 outside the covered time period right now.

8 **MR. GRIFFON:** Okay. So he's talking about  
9 potentially just -- just more rollings.

10 **DR. NETON:** They weren't even really rollings.  
11 In some cases Mallinckrodt would send the  
12 billets to Bethlehem Steel for heat treatment  
13 in the salt bath, and that would be it and then  
14 they'd be shipped on. Same thing with Savannah  
15 River. So it -- I don't know that we've  
16 uncovered any additional rollings. But there  
17 was additional evidence of material being  
18 transported through Bethlehem Steel, but -- but  
19 not necessarily rollings.

20 **MR. GRIFFON:** I guess from my standpoint it's  
21 just another -- you know, another --

22 **DR. ZIEMER:** Well, what impact would that --

23 **MR. GRIFFON:** -- point --

24 **DR. ZIEMER:** -- have (unintelligible) --

25 **MR. GRIFFON:** Let's make sure we're consi-- I

1 mean that --

2 **DR. NETON:** Oh, yeah --

3 **MR. GRIFFON:** -- NIOSH considers this to the  
4 extent that it would impact --

5 **DR. NETON:** Oh, exactly. The team that's  
6 working on advising the site profile has Mr.  
7 Walker's transmittal and we're addressing that.

8 **DR. ZIEMER:** Yes, Richard Toohey.

9 **DR. TOOHEY:** Let me add something to that Jim  
10 doesn't -- I haven't told Jim about 'cause I  
11 just found out Wednesday. On a data capture  
12 trip at Hanford we did find some Bethlehem  
13 Steel records out there and went through them  
14 and did not change the covered period. There  
15 was nothing outside the '50 to '54 time frame.

16 **MR. GRIFFON:** All right, but (unintelligible)  
17 you followed up on the (unintelligible)  
18 question is yes.

19 **DR. TOOHEY:** We weren't specifically looking  
20 for Bethlehem Steel out there, but we found it  
21 anyway.

22 **DR. ZIEMER:** Thank you.

23 **DR. NETON:** I would just like to remind the  
24 Board -- I brought this up at the last meeting  
25 -- but NIOSH was responsible for increasing the

1 covered exposure period and extending it to '52  
2 because we found rollings, and we notified the  
3 Departments of Labor and Energy at that time  
4 that hey, you know, it looks like people were  
5 being exposed in '52, and so, you know, we do  
6 collaborate as best we can.

7 **DR. ZIEMER:** Very good.

8 **DR. WADE:** Could I just discuss this issue just  
9 briefly, not to add confusion to it but  
10 hopefully to bring it to closure. First as a  
11 data point, I was contacted by Senator  
12 Schumer's office and the Senator asked me to  
13 make sure that the Board understood that this  
14 issue of number of rollings and information on  
15 rollings was of great interest to the Senator's  
16 office. And I said I would make that comment,  
17 and I would also make sure that Ed's materials  
18 were given out.

19 You'll notice from the motion that the Board  
20 took at its last meeting that the Board has not  
21 formally asked NIOSH to do anything with regard  
22 to this issue. I think the discussion we've  
23 just had, if that satisfies the subcommittee,  
24 then that's fine. I just want to be sure that  
25 we're clear in what our expectations are and

1           what NIOSH will do. And I think, given the  
2           level of interest expressed by the Senator and  
3           others, I think it's important that we're clear  
4           on that.

5           **DR. ZIEMER:** Well, I think the -- the  
6           confirmation that Labor has the information is  
7           important and --

8           **DR. WADE:** Okay, then --

9           **DR. ZIEMER:** -- that -- it -- I'm not sure what  
10          we can do beyond that. NIOSH has taken into  
11          consideration the additional activities, and  
12          I'm -- I guess we don't know for sure if this  
13          document suggests there are any outside that  
14          period, but if -- if there are, we need to make  
15          sure Labor has the information.

16          **MR. GRIFFON:** Yeah, I guess -- I don't know if  
17          -- if we need to make a formal recommendation  
18          or -- or a motion for this, but you know, I  
19          think that if NIO-- and that discussion sort of  
20          suggests that they have, but if NIOSH has  
21          considered the additional information provided  
22          regarding rollings -- where applicable, I  
23          guess, you know, given the question of the  
24          coverage period -- in the development of the  
25          site profile, or in the revision of their site

1 profile, I think we just want assurance of  
2 that.

3 **DR. WADE:** I mean I might suggest that possibly  
4 NIOSH could write to the Board and let the  
5 Board know of its work in this area and just  
6 create then a record, and I think that would be  
7 sufficient -- if we could ask --

8 **DR. ZIEMER:** (Off microphone) (Unintelligible)  
9 officially report (unintelligible).

10 **DR. ANDERSON:** Yeah, I think we -- if we have a  
11 document, rather than just minutes, I think  
12 that would be very helpful.

13 **DR. WADE:** I think it would be, too.

14 **DR. ANDERSON:** I don't know if we need to have  
15 a -- we can just request that and maybe at the  
16 next meeting you could provide us with a, you  
17 know, kind of written documentary of what's  
18 been done and how it's being used.

19 **DR. WADE:** Okay, I'll carry that request to  
20 NIOSH.

21 **DR. ZIEMER:** Thank you. Now one of the -- you  
22 notice on the agenda -- for Bethlehem Steel the  
23 agenda item says how to close. Now closure on  
24 Bethlehem Steel I think would require us to  
25 have a final -- or not necessarily -- though

1 site profiles are never final, but we -- it  
2 seems to me we need this next revision that  
3 addresses the -- or resolves these issues. So  
4 is it fair to say that we would have to defer  
5 final action till we receive the revised site  
6 profile?

7 **DR. DEHART:** Absolutely, I don't know how we  
8 can move otherwise.

9 **MR. GRIFFON:** And then I guess the -- the next  
10 question beyond that is do we need -- here's  
11 this question of findings resolution.  
12 Everything that Jim stated sounds great, but we  
13 go back to that -- you know, the devil's in the  
14 details. How -- how was this applied and does  
15 SCA -- and I think they're working together, so  
16 it shouldn't be -- maybe it's just a -- but a  
17 final review by (unintelligible) --

18 **DR. ZIEMER:** Right, and our final report can  
19 consist of a similar tracking thing, what the  
20 issues were, how they were resolved, and then a  
21 final wrap-up type of document.

22 **MR. GRIFFON:** Right.

23 **DR. ZIEMER:** Which would come after we have  
24 this final revision.

25 **DR. WADE:** Right. I mean could we ask John

1 Mauro to come and just tell us, from your  
2 perspective, where things are and how they're  
3 proceeding, John? We'd...

4 **DR. MAURO:** The process we've developed -- I  
5 referred to the expanded review process and  
6 this is what we're talking about. The way in  
7 which it works is -- a perfect example would be  
8 what's going on right now with Mallinckrodt.  
9 We just received Rev. 1 of Mallinckrodt, and at  
10 the direction of Dr. Ziemer we have initiated  
11 our expanded review cycle. As I had ind-- as  
12 we spoke about before, this is a part of the  
13 process that's triggered based on direction  
14 given by the Board. That direction has been  
15 triggered by Dr. Ziemer and we're moving  
16 forward with Mallinckrodt review, which will be  
17 a one-month review. As everyone knows, we have  
18 set aside a budget just for that purpose in our  
19 most recent modification to our task one work.  
20 Now to go on to Bethlehem Steel, we have not  
21 initiated any expanded review on Bethlehem  
22 Steel. Our expectation would be that when we  
23 receive the next revision of the Bethlehem  
24 Steel site profile, it would be our expectation  
25 that at that time the Board would make a

1 judgment whether they would like SC&A to  
2 proceed with a review and give an -- authorize  
3 us to move forward. So as it stands right now,  
4 we have not billed any time or have taken any  
5 actions regarding the information that has been  
6 coming across our desk. I did sit in on the --  
7 and we are certainly aware of these  
8 developments. But as -- we have not engaged  
9 the expanded review cycle. We felt it's best  
10 to conserve those resources until we see the  
11 revised site profile.

12 **DR. ZIEMER:** Yeah. And a good part of this  
13 revision is based on the interactions already  
14 occurring between the two, so it's basically  
15 responsive to what you have already identified.  
16 There may be some new information that the  
17 Board would want evaluated -- for example, if  
18 there were something in these Hanford records  
19 that would change things, then that might be a  
20 different story. But otherwise it's a little  
21 hard for me to see why we would ask SC&A to  
22 review what they've already --

23 **MR. GRIFFON:** Well, I mean the main reason is  
24 just the follow-through of -- you know, if we  
25 can have these broad discussions on -- you

1 know, they now are replacing triangular  
2 distribution with a lognormal 95th percentile  
3 for all cases sounds -- sounds wonderful. I  
4 think what we need SCA maybe to look at is  
5 well, what data was used for the lognormal  
6 distribution, is it consi-- you know, are they  
7 comfortable with the way it was handled and not  
8 in the (unintelligible) sense but in the more  
9 specific sense of the data et cetera. There  
10 were some sub-issues in those findings, and if  
11 -- and I think my -- my -- since there's been  
12 so much dialogue along the way, my  
13 understanding is that it'll be a fairly quick  
14 review. It won't be as extensive as -- as  
15 reviewing like a Mallinckrodt where there was a  
16 much more expansive revision. But -- and I  
17 would also say that -- you know, I think the --  
18 these are living documents, so I don't know  
19 that we would want to -- you know, you have to  
20 stop somewhere, so -- but I think the findings  
21 that they identified, to carry them through and  
22 make sure that they -- that they, and by an  
23 extension that we are comfortable --  
24 **DR. ZIEMER:** Right, it would basically say  
25 okay, at this point, based on what we've seen

1 and what's occurred, we now agree that this is  
2 okay, whatever words we end up using. But we  
3 would not decide on the next -- another step  
4 until we have the document in hand, I assume.

5 **MR. GRIFFON:** Right. And I think we -- we  
6 would trigger that -- as John suggested, maybe  
7 we would trigger that at our next full Board  
8 meeting --

9 **DR. ZIEMER:** Uh-huh.

10 **MR. GRIFFON:** -- you know, when we -- if we get  
11 Rev. 1 by that time or if it's coming down the  
12 pike in a week or so.

13 **DR. ZIEMER:** Well, I think Jim is suggesting  
14 perhaps it wouldn't be ready by the next Board  
15 meeting, but --

16 **DR. MAURO:** Yeah, the -- the -- two points that  
17 I'd like to make is, one, of the various  
18 strategies that Jim has just outlined, there  
19 was really only one where there is clear  
20 consensus among the SC&A team, that yes, we  
21 agree with the five micron AMAD. The other  
22 items we are -- we would prefer to reserve  
23 judgment until we see them within the context  
24 of the overall revised TBD. That will take  
25 some -- some work.

1           The other thing -- point that I'd like to make  
2           is that bear in mind that we have reviewed a  
3           number of Bethlehem Steel cases that are before  
4           you. In our first set of 20 I think there were  
5           three, and in the next set of 18 I believe  
6           there's one. Those reviews are in place. It  
7           would probably be appropriate when the new site  
8           profile comes through to see if there's  
9           anything in the revised site profile that may  
10          bear on our findings regarding those particular  
11          cases. I couldn't really say off-hand one way  
12          or the other whether it'd have any impli-- what  
13          type of implications it would have. So we are  
14          in an unfortunately somewhat of an iterative  
15          process whereby -- you know, we have our  
16          reports, the 20 cases, but then a revised site  
17          profile comes in and it's probably prudent to -  
18          - to revisit those quickly to make sure there's  
19          nothing about the new information that possibly  
20          could have affected the -- the...

21          **DR. ZIEMER:** Thank you, that's a good point. I  
22          think the burden's going to be on NIOSH to  
23          determine whether or not a revised site profile  
24          impacts on past cases. I'm not sure we're  
25          going to be asking the contractor to go back

1 and revisit previous findings. I believe this  
2 would be correct, but NIOSH would basically --  
3 automatically would -- Jim, if you revised a  
4 site profile, you ask the question does this  
5 impact on previous cases, and the burden is on  
6 them to do that. Yeah.

7 **DR. MAURO:** That's fine.

8 **DR. ZIEMER:** Hans?

9 **DR. BEHLING:** Just a comment because of the  
10 earlier concern about completing the first 20,  
11 which involved the five AWEs, three of which  
12 were Bethlehem Steel, and Mark had requested  
13 and I think the Board approved that we include  
14 those in our checklist in our review. And my  
15 question is do we do this in the absence of  
16 closure in (unintelligible) like the Bethlehem  
17 Steel?

18 **DR. ZIEMER:** I think you have to do it based on  
19 what you have available at the time.

20 **DR. BEHLING:** Okay.

21 **DR. ZIEMER:** That's all you can do. And then  
22 if the site profile changes, then NIOSH has to  
23 go back and say well, what's the impact on that  
24 on this previous set.

25 **DR. WADE:** Paul, could I just --

1           **DR. ZIEMER:** That's -- that's old -- that's  
2 beyond just the ones that were audited. It's  
3 all the previous cases.

4           **DR. WADE:** Paul, I would like to talk a little  
5 bit about timing, and I hate to always do that,  
6 but I do think we need to be steering these  
7 things towards closure. And so based upon what  
8 I've heard to this point, we will not expect to  
9 see -- understandably -- a revised site profile  
10 at our April Board meeting. So that's a  
11 statement of fact, unless the Board wishes to  
12 instruct otherwise.

13 So then we're looking at a July Board meeting,  
14 let's say tentatively. You could look at two  
15 scenarios. One is at the July Board meeting  
16 the Board could see the NIOSH revised site  
17 profile, and at that July meeting make a  
18 decision as to whether or not it wanted SC&A to  
19 look at the materials, which would likely take  
20 us then to the September Board meeting -- or  
21 October Board meeting. Or it's possible, if  
22 the Board was to decide in April that what it  
23 wanted when the NIOSH revised site profile was  
24 complete we would send it to SC&A and trigger a  
25 review, then we might be able to come to

1 closure in July. And I think this subcommittee  
2 should think about that and then the Board  
3 should decide that.

4 **DR. ZIEMER:** And this is a item I think the  
5 full Board could decide at this telephone  
6 conference. To me it would make sense to have  
7 it automatically trigger a -- some kind of a  
8 review by SC&A to affirm that it was responsive  
9 to what they thought they were asking for. And  
10 that way we're not sitting marking time for a  
11 month or two waiting for the next Board  
12 meeting.

13 **DR. WADE:** Okay. So we will put on the agenda  
14 for our call then a full Board discussion of  
15 the timing of the Bethlehem next iteration.  
16 But Jim, this then brings pressure to you in  
17 that if we want to come to the July meeting  
18 with the revised site profile and the SC&A  
19 comments, that means that you would be in a  
20 position of having to deliver the revised site  
21 profile to SC&A in a May/June kind of time  
22 frame -- May time frame.

23 **DR. ZIEMER:** But at this point we still  
24 wouldn't know how long it would take SCA and  
25 what else would be on the table, so that would

1 still be speculative regardless of --

2 **DR. WADE:** Right, but I'd like --

3 **DR. NETON:** I think we can accomplish that May  
4 time frame, but what I'd like to ask is, am I  
5 correct in assuming that we could engage in the  
6 -- sort of the six-step iterative process  
7 again? I mean so that if SC&A receives it,  
8 they have some comments and we could engage in  
9 some dialogue in somewhat real time, as long as  
10 there's a Board member present and it's  
11 transcribed.

12 **DR. ZIEMER:** Yes.

13 **DR. NETON:** That way it'll expedite things  
14 tremendously.

15 **DR. ZIEMER:** Right.

16 **DR. NETON:** I mean there -- I anticipate that  
17 it wouldn't -- there's not going to be perfect  
18 agreement.

19 **DR. ZIEMER:** We can continue to do that, yes.

20 **MR. GRIFFON:** This will trigger that expanded  
21 review process --

22 **DR. NETON:** Exactly, so then by the time the  
23 next Board meeting, we may be able to have all  
24 those issues worked out and a consensus opinion  
25 between the two --

1           **DR. WADE:** Now let's ask John to react to --  
2           now we're talking May, June, July if -- if you  
3           were to get the revised site profile the end of  
4           May, would you be in a position to turn it  
5           around in a month?

6           **DR. MAURO:** Two weeks.

7           **DR. WADE:** Two weeks?

8           **DR. MAURO:** Other words, I'm optimistic. I  
9           feel as if the issues have been condensed  
10          nicely down to very clean, well-understood  
11          points. How they actually take life in the  
12          revised -- what I will quite frankly do as soon  
13          as I get the document and get the green light  
14          to go ahead, I will convene something very  
15          similar that we just did on Iowa. Everyone  
16          read it, telephone conference call, what's your  
17          reactions. We'll knock heads, then we'll get  
18          in touch -- we'll come to some sensibility  
19          regarding our position regarding each of the  
20          five or six issues. At that point I would say  
21          some type of dialogue with the Board  
22          involvement, recorded, and I think that at that  
23          point we would be in a position right there to  
24          say verbally what our position is on each item.  
25          And I guess the actual -- then perhaps a

1 letter, I -- as you would like, a letter  
2 acknowledging yes, these issues have been  
3 resolved as far as -- to our satisfaction, or  
4 not.

5 **DR. ZIEMER:** Yeah, that's fine. Okay.

6 **DR. WADE:** So for our own scheduling purposes,  
7 we're looking at -- at -- at optimistically in  
8 July having revised site profile and an SC&A  
9 review of that site profile, so hopefully we  
10 can come to closure at that meeting. That's  
11 very useful for me for my scheduling purposes.  
12 One more just small point to ask the  
13 subcommittee. I refer you back to your own  
14 motion of February 8th where you asked for a  
15 meeting between NIOSH and SC&A. I assume that  
16 the meeting that John just referred to would  
17 satisfy your requirement there.

18 **DR. ZIEMER:** Well, and there has been a meeting  
19 or two already. Right?

20 **DR. WADE:** I don't think there's been a meeting  
21 since you --

22 **DR. ZIEMER:** Since then --

23 **DR. WADE:** -- passed this motion.

24 **DR. ZIEMER:** -- oh, oh, I see. Okay. Okay, so  
25 this is -- this meeting would satisfy that.

1           **DR. WADE:** Okay.

2           **MR. GRIFFON:** It's supposed to be with Board  
3 presence?

4           **DR. WADE:** Right.

5           **DR. ZIEMER:** Right, and a record kept of the...

6           **DR. WADE:** I just wanted to make sure that we  
7 were -- make sure that things happened  
8 consistent with the Board's motion, and so what  
9 was discussed here, in the opinion of the  
10 subcommittee, is consistent with the Board's  
11 motion. Thank you.

12          **DR. ZIEMER:** And I think that then completes  
13 the discussion on the Bethlehem Steel issue.  
14 We'll take a break for about ten minutes, and  
15 then we'll come back and we have a few items  
16 that are procedural.

17          **DR. WADE:** Well, we have three major issues --

18          **DR. ZIEMER:** Let's see what we have to cover  
19 yet. We have to talk about what -- what we're  
20 going to -- no, the next set we've actually  
21 talked about. That was a 45-second discussion.  
22 The next set is underway but we don't have  
23 anything to report on that, so -- next set of  
24 18, but the process will be similar to the  
25 last. That's underway.

1 But we did have some --

2 **DR. WADE:** I think -- if I might, we have three  
3 things, and maybe more. I think we want to  
4 talk a little bit about Iowa.

5 **DR. ZIEMER:** Right.

6 **DR. WADE:** I think we want to talk about an SEC  
7 task for SC&A in a very general way. And I  
8 think we want to talk about the task three --  
9 start to talk about a time line. We won't  
10 finish it, but I think in the broad sense of,  
11 you know, when do we intend to come to closure  
12 on SC&A's task three. This is a review of the  
13 procedures and steps, and at least talk about  
14 that a little bit and --

15 **MR. GRIFFON:** And maybe Mallinckrodt Rev. 1 --

16 **DR. WADE:** Right.

17 **MR. GRIFFON:** -- or did we bring that up  
18 already?

19 **DR. WADE:** Well, we did, but I think it'd be  
20 good to bring it up all together with Jim  
21 speaking and then John speaking.

22 **MR. GRIFFON:** The reason I raise Mallinckrodt  
23 is we -- I think we sort of committed last  
24 meeting to resolving that SEC petition in the  
25 next Board meeting -- next full Board meeting.

1           **DR. ZIEMER:** We did.

2           **DR. WADE:** Indeed we did.

3           **MR. GRIFFON:** Right.

4           **DR. WADE:** And it has been noticed.

5           **MR. GRIFFON:** Right. Yeah -- yes.

6           **DR. ZIEMER:** Okay, let's take a break and then  
7 in about ten minutes we'll resume.

8 (Whereupon, a recess was taken from 10:25 a.m.  
9 to 10:45 a.m.)

10                           **SUBCOMMITTEE DISCUSSION**

11           **DR. ZIEMER:** Let's reconvene, shall we, and  
12 finish up here this morning. Let me suggest --  
13 let's see, Rich is here, okay. Let me suggest  
14 that we talk briefly about the issue of having  
15 a task order directly -- directly involved with  
16 a Special Exposure Cohort review process, and I  
17 know that Mark has drafted a kind of a straw  
18 man task order. But let's talk first -- and  
19 actually a detailed task order might be  
20 something the full Board would have to look at,  
21 but let's talk about process. And Lew, can you  
22 help us frame out exactly what would be needed  
23 to specifically task S-- task SC&A to assist in  
24 the petition review processes?

25           **DR. WADE:** Okay, well, let me first sort of put

1 as foundation -- the functions assigned to this  
2 subcommittee, while they relate to dose  
3 reconstruction review and site profile review,  
4 does ask that we clarify intent regarding the  
5 technical scope of tasks assigned to the audit  
6 contractor. So I think that gives us an  
7 ability to briefly talk about this topic, but  
8 not make any decisions on this topic.  
9 What I'd like to do is to read for you from the  
10 existing contract as to what it says about SEC  
11 work, and I think we need to understand that --  
12 and again, I'll see that that is shared with  
13 the full Board, but -- and I quote, (reading)  
14 The contractor shall be available to assist the  
15 Advisory Board in reviewing SEC petition  
16 determinations. The contractor may be  
17 requested to assist in some or all of the SEC  
18 petition reviews. The contractor shall review  
19 all relevant methodologies and/or procedures  
20 employed by NIOSH evaluating and processing the  
21 SEC petitions consistent with the statute and  
22 NIOSH regulations.  
23 So those are the words in the contract. Now  
24 those words take you to an understanding that  
25 the Board might, on a particular petition, as

1           SEC (sic) for help or guidance. And that's  
2           what the contract currently says.

3           Again, we can go beyond that in what we -- we  
4           take on as a task. We can't stray too far from  
5           the words in the existing contract; that's what  
6           was competed.

7           Now what -- to answer your question, Mark --

8           **DR. ZIEMER:** But there's no specific task.

9           That was just in the general --

10          **DR. WADE:** That's in the gen-- no, we -- we  
11          would have to develop a task.

12          **DR. ZIEMER:** Right.

13          **DR. WADE:** So what would happen, in my view, is  
14          that at the next Board meeting -- and I -- I  
15          mean the phone discussion -- if the Board could  
16          agree on a scope of work for the SEC task, and  
17          then if the Board would consider empowering me  
18          to do the independent government cost estimate  
19          for that, then I could -- armed with that  
20          authority, I could see that there would be an  
21          SEC task in place for the Board to use as it  
22          might see fit by the April full Board meeting.  
23          If I didn't have the authority to negotiate the  
24          independent government cost estimate, then I  
25          would have to come back to the Board.

1 I think there's an intellectual question as to  
2 what the Board wants SEC to do -- excuse me,  
3 SC&A to do within the SEC task. And I think  
4 again we have to be guided by the words in the  
5 existing contract. But I don't think there's  
6 anything we need to do today but to start to  
7 think about that.

8 Now Mark, you might want to briefly talk to us  
9 about what you've prepared -- again, not to  
10 reach closure, but just to set the -- set the  
11 stage for thinking.

12 **MR. GRIFFON:** You know, which -- which I  
13 believe -- I don't -- I have on my laptop a  
14 full task order contract with -- it's a -- it's  
15 a fairly brief paragraph as a placeholder for  
16 an SEC --

17 **DR. ZIEMER:** Right, it simply identified that  
18 we might call on SC&A to assist in the process.

19 **MR. GRIFFON:** Right.

20 **DR. ZIEMER:** Right.

21 **MR. GRIFFON:** I believe that this is consistent  
22 with the scope outlined in there. I don't know  
23 if we want to pull that to compare them.

24 **DR. WADE:** Well, I think I'll ask a contracting  
25 officer to do that before our call.

1           **MR. GRIFFON:** All right. But this -- you know,  
2           this outlines the -- I guess, you know, five  
3           major areas -- major items that we would  
4           anticipate possibly asking SC&A for assistance  
5           with for certain -- for certain petitions. And  
6           -- and it -- you know, I -- well, let me -- let  
7           me just step through those items, I guess.  
8           Number one talks about a review of the SEC  
9           evaluation procedures, the procedures that  
10          NIOSH is using to evaluate the petitions. The  
11          second part speaks to --

12          **DR. ZIEMER:** Let me interrupt. Are those  
13          procedures on the list of -- in the procedure  
14          reviews?

15          **MR. GRIFFON:** I don't think so.

16          **DR. ZIEMER:** No. Okay.

17          **MR. GRIFFON:** They were specifically kept out  
18          because they were petition-related, right?

19          **DR. ZIEMER:** Yeah, right. Thank you.

20          **MR. GRIFFON:** The second item is -- is having -  
21          - asking the contractor to assist the Board in  
22          developing a review procedure that the Board  
23          would adhere to for reviewing these petitions -  
24          - for reviewing the petition reports or  
25          petitions.

1           The third item is sort of an estimate of the  
2           number of petitions that may come up -- and  
3           this is a one-year task -- number of petitions  
4           that we might -- we estimate receiving in a  
5           year that we -- requiring SCA's services or  
6           assistance with. And I also -- we might -- you  
7           know, certainly those numbers are open for  
8           discussion 'cause these were pretty much, you  
9           know, estimates on my part on -- on what might  
10          be coming down the line.

11          **DR. ZIEMER:** And Mark, you to some extent have  
12          to pick these out of a hat, but for example,  
13          contractor required to review eight SEC  
14          petitions, I think the intent would be up to --  
15          that would be a maximum for the year?

16          **MR. GRIFFON:** Yeah.

17          **DR. ZIEMER:** Because we don't know how many --  
18          there may be two come in or --

19          **MR. GRIFFON:** And there may be --

20          **DR. ZIEMER:** We don't --

21          **MR. GRIFFON:** -- some for which we don't want --  
22          - we don't need their assistance.

23          **DR. ZIEMER:** Right.

24          **DR. WADE:** That's right.

25          **MR. GRIFFON:** Up -- up to is fine.

1           **DR. ZIEMER:** Up to some number, uh-huh.

2           **MR. GRIFFON:** And -- and the break -- later I -  
3           - I broke them out into DOE petitions and AWE  
4           petitions. I think that we have to at least  
5           estimate that to give SC&A a chance to estimate  
6           cost, 'cause I think we've heard already that  
7           the cost incurred can be different, especially  
8           for sites where there's no site profile and  
9           that sort of thing.

10          **DR. ZIEMER:** Uh-huh. So these numbers here  
11          are, again, simply to assist in -- the  
12          contractor would say okay, for this type of  
13          site profile (sic) review, the cost for doing  
14          three of those would be such and so, or we  
15          might even be able to get a unit cost out of  
16          that then. Is that right?

17          **MR. GRIFFON:** Right -- and I believe that we  
18          have the ability to shift costs within the  
19          overall cost, so if it turns out we have more  
20          AWEs, the -- petitions from AWE sites, the cost  
21          per unit might be higher so they might use up  
22          the money a little quicker, but --

23          **DR. ZIEMER:** But at least we would -- in the  
24          independent cost estimate you would have those  
25          figures broken down.

1           **MR. GRIFFON:** Right. Right.

2           **DR. ZIEMER:** Uh-huh.

3           **MR. GRIFFON:** And the fourth one is they would  
4 be required to attend Board meetings, and I  
5 think it discusses sort of a -- have dialogue  
6 with the Board and -- and NIOSH on these  
7 issues. I forget how it's phrased. And the --  
8 oh, you...

9           And the fifth item is required to interview  
10 petitioners and -- and consider their testimony  
11 or written material -- provided materials, I  
12 guess, in -- in the scope of their assistance  
13 to us.

14          **DR. ZIEMER:** Okay, thank you very much. Now I  
15 -- I assume -- and Lew, you can help us out  
16 here again -- this -- this would be, for  
17 example, a suggested type of task order, the  
18 exact wording to be worked out if -- if, for  
19 example, you were authorized or some --

20          **DR. WADE:** Right.

21          **DR. ZIEMER:** -- group is authorized to proceed  
22 on this, but what action would be needed here  
23 today simply to recommend in principle that the  
24 Board adopt something like this?

25          **DR. WADE:** Yeah, I mean I think the only action

1 would be to -- to commit to getting this to the  
2 Board for a discussion on our -- I think it's  
3 April 5th telephone conference call. I would  
4 ask for no more action than that.

5 **DR. ZIEMER:** So the only action required here  
6 today would be to recommend that the Board  
7 review this in the full telephone meeting for  
8 possible action. We wouldn't even have to  
9 recommend an action, simply --

10 **DR. WADE:** Yeah, I don't think --

11 **DR. ZIEMER:** -- this be on the agenda.

12 **DR. WADE:** Right, and I think recommending an  
13 action on this might be a little bit outside  
14 the scope of this subcommittee so I wouldn't do  
15 that. I think it was fine that we talked about  
16 it. I think it should go to the Board and I  
17 think we should take that up as a full Board.

18 **DR. ZIEMER:** But we can have a motion to ask  
19 the Board to review --

20 **DR. WADE:** Sure.

21 **DR. ZIEMER:** -- this and -- someone wish to  
22 make such a motion, that the Board -- that the  
23 Board consider a task order for a Special  
24 Exposure Cohort review?

25 **MR. GRIFFON:** I'd like to make a motion that

1 the Board consider this task order for a  
2 Special Exposure Cohort review.

3 **DR. ZIEMER:** Second?

4 **DR. DEHART:** Second.

5 **DR. ZIEMER:** Any discussion? A comment from  
6 Richard Toohey.

7 **DR. TOOHEY:** I'd just like to offer  
8 clarification. I would suggest you make it  
9 explicit that what you want to be reviewed is  
10 the SEC petition evaluation --

11 **DR. ZIEMER:** Yes.

12 **DR. TOOHEY:** -- report.

13 **DR. ZIEMER:** Right.

14 **DR. TOOHEY:** There is another aspect that --

15 **DR. ZIEMER:** Not the -- well, and we -- we may  
16 want the petition to be reviewed, as well.

17 **DR. TOOHEY:** Well -- right, and I was going to  
18 say there was another aspect to that where we  
19 initially evaluate and qualify a petition.

20 **MR. GRIFFON:** Right.

21 **DR. TOOHEY:** There's a procedure for that, so  
22 you want to look at that independently --

23 **MR. GRIFFON:** Yeah, I specifically -- I think I  
24 said that --

25 **DR. TOOHEY:** Yeah, --

1           **MR. GRIFFON:** -- all this doesn't include  
2           (unintelligible) qualifi-- you know.

3           **DR. TOOHEY:** Right.

4           **MR. GRIFFON:** I think I noted that.

5           **DR. WADE:** You did say that, yeah, very  
6           clearly.

7           **DR. TOOHEY:** Okay. But for -- the main thing  
8           for SC&A to do a review would be the petition  
9           evaluation report. Right?

10          **MR. GRIFFON:** Right.

11          **DR. ZIEMER:** Right.

12          **DR. WADE:** Right.

13          **DR. TOOHEY:** Okay, thanks.

14          **DR. ZIEMER:** Thank you. Yeah, see, assistance  
15          in reviewing and evaluation petitions and  
16          evaluation reports is how it's stated. Okay?  
17          All in favor, aye?

18                               (Affirmative responses)

19          **DR. ZIEMER:** Opposed?

20                               (No responses)

21          **DR. ZIEMER:** Motion carries then. Abstentions?

22                               (No responses)

23          **DR. ZIEMER:** Thank you. Thank you, Mark. Now  
24          we have the Iowa petition, and just to remind  
25          you of where we are on that, the Board took

1           action at its last meeting and developed a  
2           recommendation to be forwarded to the Secretary  
3           through the Director of NIOSH that the -- I'll  
4           paraphrase -- that the Iowa petition be granted  
5           as Special Cohort status. We had discussion of  
6           the quality of data and so on, but we didn't  
7           really take action on that. Basically action,  
8           as I understood it and in reviewing the minutes  
9           and the transcripts, the action of the Board  
10          was based primarily on a transparency issue and  
11          the fact that the data were classified and  
12          could not be made available to petitioners or  
13          to the full Board, or to the public.

14          **MR. GRIFFON:** I'm not sure I would state it  
15          that far, but I mean that was part of the final  
16          considera-- or final recommendation by the  
17          Board. We also noted that there -- the -- our  
18          conclusion was based on -- on insufficient  
19          dosimetry, dosimetry records, et cetera, so I -  
20          -

21          **DR. ZIEMER:** The point I was making -- in fact,  
22          that's stated in the record, but the Board  
23          didn't -- didn't specifically make a  
24          determination that the data were inadequate.  
25          That was raised as an issue and discussed, but

1           it appeared to me that the overriding issue was  
2           the transparency issue and it's so stated as  
3           the main point in the record.

4           Subsequently we had the revision that occurred  
5           just shortly after our meeting -- well,  
6           actually a determination by the Department of  
7           Energy, and again I'm paraphrasing a little  
8           bit, but -- and I don't have the dates before  
9           me, but it's in the record -- a determination  
10          by the Department of Energy that for a  
11          particular period -- I believe it was '62 on,  
12          does anyone recall that -- that later period --  
13          that -- that those dose reconstructions could  
14          be made without the use of the classified  
15          information. Therefore, if -- if we were to  
16          send our recommendation to the Secretary, it  
17          would have been in conflict with -- at that  
18          point with NIOSH's statement that the -- that  
19          the information was not classified and dose  
20          reconstructions could be done. So because of  
21          that conflict -- I'm sorry?

22          **MR. GRIFFON:** I just -- again, I don't -- I  
23          don't know that we have our recommendation -- a  
24          draft that we did at the last meeting, 'cause I  
25          wasn't really prepared to discuss Iowa that

1 much, but I -- I -- you know, my -- my  
2 understanding, and I know that the majority of  
3 the dialogue at the meeting -- and I think it  
4 was really due to time pressure -- the majority  
5 of the dialogue at the meeting was focused on  
6 this issue of classification, but I think that  
7 there was a lot more there that -- that lent me  
8 toward moving towards Special Exposure Cohort  
9 for -- for that class, and it was deficiencies  
10 in the dos-- dosimetry, the questions about  
11 internal dose being --

12 **DR. ZIEMER:** Well, and that very well may have  
13 been for individuals, but -- but the fact is,  
14 the classification issue became an overriding  
15 issue. It was a moot point at that point on  
16 the quality of the data, I think -- at least in  
17 my mind it was a moot point that even if the  
18 data were of high quality that we -- the  
19 transparency issue became overriding, at least  
20 in my mind. That was my understanding.

21 **MR. GRIFFON:** I agree it was a substantial  
22 point. I just don't know that it was the major  
23 or only point, that's all I'm (unintelligible).

24 **DR. ZIEMER:** Yeah. Well, in any event, the --  
25 the issue at that point was should the

1 recommendation be transmitted to the Director  
2 of NIOSH, who then would have to send to the  
3 Secretary two conflicting reports, which I  
4 think would put the Secretary in an awkward  
5 position, as well. His own agency having one  
6 particular view and -- and -- we don't have to  
7 agree with them, but the issue of  
8 classification had gone away and we were using  
9 it as a major point in our -- maybe not the  
10 only point, but a major point in our decision,  
11 so with this revised document, I felt it was  
12 important that we at least look at what that  
13 contained. And so asked whether or not SC&A  
14 could take a look at that and that's what has  
15 occurred. The Iowa delegation of course is not  
16 overly happy about that. They are quite upset.  
17 But it seemed to me we had an obligation to at  
18 least look at that new revised document. And  
19 in fact, that will cause us I think to focus on  
20 the quality of the data as an issue since the  
21 classification issue now goes away for that set  
22 of information. But it does -- it does  
23 nonetheless delay at least part of the Iowa  
24 petitioners' response. I mean we could still  
25 go ahead with our recommendation as it stood,

1 but I think it would be a serious problem for  
2 the agency in terms of what to do with that  
3 recommendation.

4 Yes, Michael.

5 **MR. GIBSON:** Paul, it seems to me, though, that  
6 at the time of the meeting and the information  
7 we had at hand, the Board made a decision,  
8 passed a motion and, at least in my opinion, I  
9 think it should have been carried through with,  
10 as instructed. And then when we subsequently  
11 found out there was other data, we could send a  
12 follow-up letter saying we now are -- have been  
13 made aware as a Board that this has happened  
14 and therefore, you know, we're asking you to  
15 hold off while we reconsider. But just to --  
16 it seems like it costs the Board a lot of  
17 credibility when we state in front of public  
18 we're going to do something -- in fact, I've  
19 had some e-mails from -- as most of us have,  
20 probably, from Senator Harkin and --

21 **DR. ZIEMER:** Yes, we have, uh-huh.

22 **MR. GIBSON:** -- Senator Grassley that, you  
23 know, we're not following through with what we  
24 committed to do. So again, we acted on the  
25 information we had at hand, and I think -- I

1 think in the future that we should follow  
2 through with our commitments. Now we can  
3 always step back and say, you know, situations  
4 have changed.

5 **DR. ZIEMER:** And I'm certainly prepared to do  
6 that if the Board -- and I think this telephone  
7 meeting the Board can instruct the Chair to do  
8 that. Remember that what we do is transmit it  
9 not directly to the Secretary. It goes to  
10 NIOSH. In this case it goes to NIOSH and NIOSH  
11 has to determine what to do with that if it --  
12 particularly in this particular case, there's  
13 no guarantee it would then -- I don't think --  
14 go to the Secretary necessarily -- or maybe it  
15 would, I don't know. But in any event, if the  
16 Board so instructs me, we can still set that --  
17 send that --

18 **DR. WADE:** But I think Michael's point was for  
19 future issues we need to understand his point  
20 and behave as --

21 **MR. GIBSON:** I might have misstated who to send  
22 it to, but I mean, you know, we took action  
23 based on the information at hand --

24 **DR. ZIEMER:** Right.

25 **MR. GIBSON:** -- and I think it should be

1 followed through then unless the Board advises  
2 otherwise.

3 **DR. ZIEMER:** Yeah. Well, and other comments on  
4 that?

5 **DR. ANDERSON:** Yeah, I think the issue is the -  
6 - the Board passed a resolution and apparently  
7 that was set aside. Is that true, that that --  
8 I guess...

9 **DR. ZIEMER:** I'd hate to characterize it as  
10 being set aside. It just hasn't been -- it  
11 hasn't occurred yet. I mean we can still send  
12 that forward.

13 **DR. ANDERSON:** Well, a request was made to have  
14 our contractor do some additional work on it --  
15 I mean as the record says, we passed that  
16 resolution now and I think -- I would tend to  
17 agree with Mike that the issue is if we want to  
18 revisit it, we can. But at this point, what's  
19 happening with that? Why didn't it go forward?

20 **DR. ZIEMER:** Well, the reason it didn't go  
21 forward is -- and again it is the Chair's  
22 decision to delay sending it till we have a  
23 chance to look at this new document. But I can  
24 certainly -- you know, if -- I think if the  
25 Board instructs me to proceed with it, I

1           certainly will do that. It wasn't clear to me  
2           that it would be very helpful to send that  
3           forward with the presence of this new document  
4           available to us, but -- it's a -- and it's a  
5           timing issue, really. Roy?

6           **DR. DEHART:** My decision and vote at that time  
7           was based entirely on the fact of transparency.  
8           Within days, almost before we got home, that  
9           issue was resolved and I think it would have  
10          been a mistake not to withhold the -- the  
11          action until we can -- we can review the data  
12          appropriately and have our contractor do so, it  
13          likewise would have been foolish.

14          **MR. GRIFFON:** I guess there -- there's --  
15          there's lots of questions in my mind on the --  
16          the -- sort of the chronology of events. I  
17          think some of those are most -- are best  
18          discussed on the upcoming phone call,  
19          especially since I didn't bring Iowa materials.  
20          I'm not really equipped to discuss, but you  
21          know, the ques-- the first question that comes  
22          to my mind on some of the chronology is how --  
23          how -- was any of the 19-- is there any new  
24          data that's been declassified that -- that is  
25          used in this new Rev. 1 and the -- you know,

1           maybe that's -- some of these questions we can  
2           bring up at --

3           **DR. WADE:** I think we need to.

4           **DR. ZIEMER:** That was my understanding, that  
5           there was. But -- and again, I had -- I had  
6           the document ready to go, to send to -- to John  
7           Howard at NIOSH, which --

8           **MR. GRIFFON:** And if so, I think -- even in --  
9           this might even be in preparation for -- for  
10          this upcoming conference call is -- is what new  
11          information was declassified? Please provide  
12          it to the Board so that we can compare the old  
13          revision and the new revision and see just  
14          where -- you know, why and how this was changed  
15          due to declassified information, but -- but --  
16          you know --

17          **DR. ZIEMER:** Well, in fact this is where we  
18          needed SC&A's help on that, too, that --

19          **MR. GRIFFON:** Yeah.

20          **DR. ZIEMER:** That's why I asked that we get a  
21          quick look at that. I don't know what was in  
22          the document, either. I mean I just learned  
23          that -- as you did, that that information had  
24          been declassified and there now was this  
25          revised -- really it's a Technical Basis

1 Document that's been now revised.

2 **MR. GRIFFON:** I gue-- and -- and I guess  
3 stepping back to -- to Mike's point, I mean I -  
4 - I also was a little bit -- I think I found  
5 this out sort of in a back door process. I  
6 asked a different question of the contractor  
7 and they indicated to me they were working on  
8 Iowa, which surprised me 'cause I didn't -- I  
9 knew that was one of the site profiles we were  
10 not reviewing, so I guess --

11 **DR. ZIEMER:** Well --

12 **MR. GRIFFON:** -- I guess the question -- I knew  
13 you had a timing --

14 **DR. ZIEMER:** Well, but I had sent out an e-mail  
15 before that, but I won't -- you apparently  
16 hadn't seen it or something 'cause I went back  
17 and checked my e-mail to the Board on that Iowa  
18 issue, and it had been dated --

19 **MR. GRIFFON:** Oh.

20 **DR. ZIEMER:** -- several days prior to that one  
21 that -- 'cause I saw your question -- you asked  
22 me the question, but anyway, yeah --

23 **MR. GRIFFON:** Regardless, the contractor was  
24 set in motion without any full Board sort of  
25 process --

1           **DR. ZIEMER:** Exactly.

2           **MR. GRIFFON:** -- and I understand there was a  
3 timing issue, also. But I think --

4           **DR. ZIEMER:** Well --

5           **MR. GRIFFON:** -- in the future we might --

6           **DR. ZIEMER:** Well, really what --

7           **MR. GRIFFON:** -- examine that --

8           **DR. ZIEMER:** I asked the question and I asked  
9 Lew can we in fact have the contractor do this  
10 and are there resources to do it and -- and he  
11 said to John Mauro can you do this, in terms of  
12 your own resources and timing. The answer was  
13 yes, but then we had to divert resources from  
14 some of the other work. The Iowa issue seemed  
15 to me to be pressing, so we -- we did move  
16 ahead on that, but --

17           **MR. GRIFFON:** It seems -- seems --

18           **DR. ZIEMER:** -- if the Board instructs me to go  
19 ahead and send the original motion to NIOSH, I  
20 will certainly do that.

21           **MR. GRIFFON:** And I -- I'm not even -- you  
22 know, I'm not weighing in on that, but I'm just  
23 saying that -- that we might -- it seems a  
24 little bit that we put the cart before the  
25 horse here, and I understand there was urgency

1 to get -- but maybe an emergency conference  
2 call, you know, or somehow --

3 **DR. WADE:** Yeah, in point of fact, at that  
4 moment in time I asked SC&A to look at Iowa. I  
5 had the authority to do that. I didn't try to  
6 usurp the Board's function, I just felt that --  
7 that it was -- we needed to -- to act  
8 immediately if we were going to have material  
9 for the Board to consider at its next meeting.  
10 Now I would like on the phone call we have of  
11 the full Board to discuss this and -- and the  
12 Board can endorse what I did or not, as it sees  
13 fit. But I took it upon myself to ask them to  
14 look at Iowa because I -- I felt that you would  
15 want their input when you next faced this  
16 decision. And I didn't do it in the name of  
17 the Board, I did it on my own. Now Paul knew  
18 what I was doing, but I took that decision.

19 **DR. ZIEMER:** Michael?

20 **MR. GIBSON:** With all due respect, Dr. Wade,  
21 but isn't ORAU your contractor and SC&A our  
22 contractor? I mean I'm just trying to -- so I  
23 don't know -- really understand.

24 **DR. WADE:** Well, in point of fact, SC&A's  
25 contract is with CDC. They -- right. I mean

1           so I have the -- I am the technical project  
2           officer, so I can instruct them. I would  
3           normally instruct them on your behalf. In this  
4           case I instructed them without consultation  
5           with you.

6           **MR. GRIFFON:** I guess we -- we've had these  
7           discussions in the past where we tried -- it's  
8           a difficult arrangement, obviously, but we've  
9           tried to be very clear that the Board  
10          controlled the scope on -- even though, you  
11          know, the contract is through CDC.

12          **DR. WADE:** That's right.

13          **MR. GRIFFON:** And you know, this -- this also -  
14          - you know, we said that -- that -- you asked  
15          SC&A to review the site profile, which I'm not  
16          even -- I think that probably was appropriate -  
17          -

18          **DR. WADE:** Yeah.

19          **MR. GRIFFON:** -- but -- but it's also -- also  
20          part of that is what exactly were they asked to  
21          do, 'cause this -- this falls maybe under the  
22          site profile review piece, but I think you're  
23          also asking them the ques-- those tricky  
24          questions that fall under petition.

25          **DR. WADE:** I haven't yet --

1           **MR. GRIFFON:** Is data adequate for -- for  
2           determination -- you know.

3           **DR. WADE:** And we have not asked them those  
4           questions. All I've done is ask them to add  
5           this to the list of site profiles to be  
6           reviewed and to accelerate it. I think it's  
7           incumbent upon the Board to decide if you want  
8           to add any additional questions to that task,  
9           but I have not added any questions to that  
10          task.

11          **MR. GRIFFON:** And just to -- just to follow up  
12          on that, I -- can we -- can we ask just that  
13          type of question that I just mentioned without  
14          falling into the SEC petition task that we're -  
15          - the draft that we're discussing now? 'Cause  
16          this -- in site profile reviews we -- we stay  
17          away from that question of whether the data was  
18          sufficient to make a determination.

19          **DR. WADE:** I think it depends upon the  
20          question. I think that's something we need to  
21          talk about as a full Board and decide if we can  
22          ask the questions the Board would like asked  
23          under the site profile review. That's a  
24          judgment that the contracting officer would  
25          have to make. I would hope that we could. I'm

1           also trying to accelerate having an SEC task in  
2           place so that if we go beyond that, then we  
3           have a mechanism for doing that.

4           **DR. ANDERSON:** Yeah, I think -- I think -- to  
5           me, the issue is if -- are we going to get the  
6           answers from this review that we need in order  
7           to move forward on this. I mean I'd hate to  
8           have on the call or whatever them say well,  
9           that wasn't what we were asked to do and we're  
10          left in the same quandary that we were. I mean  
11          we --

12          **DR. WADE:** Right.

13          **DR. ANDERSON:** I mean we really need to move  
14          this one way or the other.

15          **DR. WADE:** Right, and --

16          **DR. ZIEMER:** Yeah, and we -- we don't even know  
17          at this point whether or not SC&A will be in a  
18          position to have done the full review -- I  
19          can't recall, John -- I know there -- there was  
20          a -- there was a bit of a push as to the timing  
21          and whether we could be prepared for the next  
22          Board meeting, but -- but let me say in any  
23          event I think at the telephone Board meeting  
24          where we're going to talk about process, I  
25          think it's very appropriate for the Board to

1 say in cases like this we should go ahead in a  
2 timely way -- you know, for the Chair to go  
3 ahead and implement the Board's action in a  
4 timely way, even if -- if something else  
5 emerges, 'cause they -- we can go back and say  
6 okay, in light of this new data we now have a  
7 new recommendation. So I -- I quite  
8 understand. Your point's very well taken.

9 **MR. GIBSON:** I just -- you know, I just think  
10 it's very important for our credibility and --

11 **DR. ZIEMER:** Right, right.

12 **MR. GIBSON:** -- with the public and --

13 **DR. ZIEMER:** Right.

14 **MR. GIBSON:** -- you know, we made our decision  
15 based on the information at hand.

16 **DR. ZIEMER:** Right.

17 **MR. GIBSON:** And you know, then to get a letter  
18 that, you know, we're delinquent in our duties  
19 from a Senator --

20 **DR. ZIEMER:** Right.

21 **MR. GIBSON:** -- and I just -- I don't -- don't  
22 feel comfortable with that.

23 **DR. ZIEMER:** No. Thank you. Okay. John?

24 **DR. MAURO:** Yes, we -- we began work Thursday  
25 of last week and we did what I call a

1 horizontal review, which meant there were about  
2 five people who read the document cover to  
3 cover, and we compiled a list of approximately  
4 50 observations, questions, issues that emerged  
5 from what we call the horizontal review.  
6 We have delivered that letter to you folks.  
7 Our expectation is some of those might be  
8 important, some of those may not be important,  
9 we don't know at this point. Our expectation  
10 is to meet as soon as possible with NIOSH to  
11 discuss those 50 or so issues.  
12 In the meantime, the -- to -- to answer your  
13 question, are we going to be able to complete  
14 our site profile review within the next two or  
15 three weeks, and the answer is we will  
16 certainly complete a lot of it, and we might  
17 complete the most essential portions of it.  
18 However, there's one major problem that is  
19 glaring. Our horizontal review has revealed  
20 the areas of greatest vulnerability are the  
21 early years. That is in terms of doing a good  
22 technical -- whether or not the data are  
23 adequate, the information is sufficient in  
24 order to -- to do dose reconstructions for the  
25 early years. In other words, we're doing a

1 data adequacy -- that's part of a site profile  
2 review, data completeness. Our most important  
3 observation has to do with the approach that  
4 was used to reconstruct doses for the early  
5 years. In order for us --

6 **DR. ZIEMER:** Meaning pre-'62?

7 **DR. MAURO:** Pre-'62. And the approach that was  
8 adopted in the site profile was to have a --  
9 what's called a construct. That is so that  
10 they did not have to -- I'm sorry to go on, but  
11 -- so that NIOSH did not have to disclose or  
12 declassify information that came up, what would  
13 be called a construct, a reference weapon or  
14 pit. And from that, say this is a bounding pit  
15 and any doses associated with the handling of  
16 that pit is going to be bounding, we have lots  
17 of questions related to whether or not that in  
18 fact is a bounding construct. And the only way  
19 we're going to be able to probe that is by  
20 having our Q clearances in place, which have  
21 not occurred yet. And without that, we're not  
22 going to be able to add very much value to that  
23 aspect of the review.

24 **DR. ZIEMER:** But that may be a moot point  
25 because the early years would still be covered

1 by our action, in any event.

2 **MR. GRIFFON:** Your -- your -- your clearances  
3 are going to be critical, though, and if -- if  
4 we don't have access -- maybe as the Board, as  
5 Lew indicated earlier, but also as the  
6 contractor --

7 **DR. WADE:** Well, we're doing everything we can.  
8 I think we have done everything we can and will  
9 do more to try and see that your two people get  
10 their clearances as quickly as possible. I do  
11 believe it's in the offing, but it hasn't  
12 happened yet.

13 Again, to go back to the issue, I think it's  
14 important when the Board deliberates on this  
15 issue that it doesn't consider the technical  
16 availability of data issue moot simply because  
17 of the transparency issue. I hope that's a  
18 lesson that we've learned. I mean I think the  
19 Board needs to consider both issues thoroughly  
20 for both time periods when it deliberates on  
21 this issue. I think it is important that the  
22 Secretary gets a complete report on technical  
23 availability as well as issues of transparency.

24 **DR. ZIEMER:** The 50 questions John referred to  
25 were -- appeared in a letter dated March 22nd,

1 so it was earlier this week. I believe we  
2 asked -- and I believe it has been done --  
3 asked John Mauro to send those questions to all  
4 the Board members. John, didn't we --

5 **MR. GRIFFON:** Yeah, you did do --

6 **DR. WADE:** I think that's been done.

7 **DR. ZIEMER:** So if you didn't already get it,  
8 it's probably sitting in your e-mail.

9 **DR. MAURO:** We have sent them out. Whether or  
10 not you've received them early enough --

11 **DR. ZIEMER:** It would have been within the last  
12 day or so.

13 **DR. MAURO:** Day, exactly.

14 **DR. ZIEMER:** I think I got them yesterday, and  
15 I have them here, but these are some  
16 preliminary questions that they raised on this  
17 revised Iowa document. And again, we're not  
18 going to consider it here, but it's part of the  
19 process that they are trying to get a grip on  
20 what issues are out there in this revised  
21 Technical Basis Document.

22 Yes --

23 **MS. HOMOKI-TITUS:** I just wanted --

24 **DR. ZIEMER:** -- Liz, please.

25 **MS. HOMOKI-TITUS:** -- to remind you in your

1           considerations of sending -- Dr. Ziemer sending  
2           the recommendations to the Secretary that it  
3           does trigger a 30-day time period, and so if  
4           y'all were to reconsider information, the  
5           Secretary may have had to go ahead and send a  
6           decision to Congress already, so I just wanted  
7           to remind you of the 30-day time period that  
8           you all trigger when Ziemer sends a letter and  
9           (unintelligible) that you're getting  
10          information.

11          **DR. WADE:** And let me expand upon that a bit,  
12          and again, this is for the Board to decide, but  
13          if you were to send a recommendation forward  
14          and there was to be new information available  
15          for the NIOSH Director to consider, a time  
16          clock would be put in motion where a decision  
17          would have to be made, and it could well be the  
18          Secretary would then deny.

19          What has happened now, I think, is your motion  
20          is still active. You will look at the  
21          materials and then you will decide what it is  
22          that you wish to do. I would want to avoid the  
23          possibility of a summary denial based upon new  
24          information. I think it is better to keep the  
25          issue open, but that's a decision you have to

1           make.

2           **DR. ZIEMER:** Right. The time clock doesn't  
3           start until we send our recommendation. But at  
4           that point then it forces the decision. If the  
5           Secretary has a -- I think what your point is,  
6           if the Secretary has conflicting information  
7           from the Board and from the agency and it's not  
8           clear what way to go, he could turn it down  
9           based on that.

10          **DR. WADE:** Right. I don't think your motion  
11          has been scuttled. I think it's still an  
12          active motion and you can do what you want with  
13          it as you consider the new information.

14          **DR. ZIEMER:** Okay. Mike?

15          **MR. GIBSON:** Well, just to make it clear, I  
16          guess my point is when other issues come up we  
17          can set in motion a conference call and  
18          everything else, and I just think for the Board  
19          to be made aware by letter from a Senator's  
20          aide rather than a Chairman or NIOSH I think is  
21          inappropriate.

22          **DR. WADE:** Understood.

23          **DR. ZIEMER:** Okay.

24          **MR. GRIFFON:** I also just want to follow up on  
25          Lew's point that -- I regret at the St. Louis

1 meeting, but I think it was mainly due to time  
2 constraints, but I regret that the emphasis and  
3 certainly the record that we built focused on  
4 the issue of transparency because I believe we  
5 had before us -- and I thought actually, having  
6 reviewed it -- some pretty compelling  
7 information that suggested that doses could not  
8 be reconstructed with sufficient accuracy. So  
9 we had lengthy data provided by Dr. Bill Fields  
10 of University of Iowa, testimony there at the  
11 site -- or on site that day at St. Louis that -  
12 - I don't think we deliberated very much on  
13 those -- on those statements. We focused on  
14 the transparency, and I do regret that, as  
15 well, but I think we did have some of that  
16 there at the time when we made -- when we  
17 formulated this --

18 **DR. WADE:** I -- I --

19 **MR. GRIFFON:** -- recommendation.

20 **DR. WADE:** I do think that -- that it's  
21 important that the Board build a record, and  
22 again, even if you go back to Iowa pre-'62 and  
23 there does appear to be a transparency issue  
24 there, I wouldn't limit the date on the  
25 availability and the adequacy of the data for

1           that period. I think it's terribly important  
2           that the strongest possible record is built and  
3           provided to the Secretary.

4           **DR. ANDERSON:** So what are we going to have new  
5           available?

6           **DR. ZIEMER:** Yeah.

7           **DR. ANDERSON:** Yeah, I mean what are we going  
8           to have available that's new at our next  
9           meeting? I guess I just don't want us to, you  
10          know, be rolling on something and face a  
11          similar thing that you did at the last meeting  
12          where -- you know, what -- what are we going to  
13          have to review that's -- that's different at  
14          the next meeting that would modify what  
15          we're...

16          **DR. ZIEMER:** We will have the revised site  
17          profile, number one. We hope to have some  
18          evaluations from SC&A. Whether or not we have  
19          -- I believe we have a number of Board members  
20          who have classi-- have Q clearance that could  
21          look at early data. Whether they can do that  
22          before that meeting, I don't know, because that  
23          -- again, we're very much pushed for time. I  
24          think Cori did a survey in the last week or so  
25          to find out who had Q clearance and, let's see,

1 Roy, you have Q --

2 **DR. DEHART:** Had.

3 **DR. ZIEMER:** You had, okay. Rich Espinosa has  
4 Q. Mike, yours has lapsed?

5 **MR. GIBSON:** I imagine it is.

6 **DR. ZIEMER:** Yeah, it says past. Mark has Q,  
7 Bob Presley has Q.

8 **DR. WADE:** That's it.

9 **DR. ZIEMER:** And that's it. Mine has lapsed  
10 also, so --

11 **MR. GRIFFON:** And I'm not quite sure whether Q  
12 gets me in the door because, you know, you also  
13 have a need-to-know --

14 **DR. ZIEMER:** It's a need-to-know issue, right.

15 **MR. GRIFFON:** -- statements which are site-  
16 specific, sometimes site -- you know, that --  
17 that's --

18 **DR. ZIEMER:** Right. I mean you can't just walk  
19 in there at that point, so --

20 **MR. GRIFFON:** Right.

21 **DR. WADE:** Rich has his...

22 **DR. ZIEMER:** Rich?

23 **MR. ESPINOSA:** A little bit more -- expand more  
24 on what Mark's saying, too, you know, the --  
25 the diversity of this Board -- you know, I have

1 a clearance, but my background is within manual  
2 labor, not health physicists or anything like  
3 that, so the documents that I would be  
4 reviewing that are classified, I'm not sure --

5 **DR. ZIEMER:** Right, you're going to be talking  
6 about -- I think we're talking about weapons  
7 information and pit --

8 **MR. ESPINOSA:** Yeah.

9 **DR. ZIEMER:** -- parameters and some -- some  
10 other factors that go into the reconstruction,  
11 so that's a good point well taken, as well,  
12 that -- but it may be that a couple of Board  
13 members could take a look at that.

14 **MR. GRIFFON:** Does Bob Presley have a Q  
15 currently?

16 **DR. ZIEMER:** Yes.

17 **MR. GRIFFON:** And he also -- working at Y-12,  
18 he would be useful in this I think.

19 **DR. ZIEMER:** Right. Right.

20 **DR. WADE:** So my question is, is it -- sorry.

21 **MR. ESPINOSA:** You would have to be a little  
22 bit careful with that, you know, basically  
23 calling them a site expert or something like  
24 that rather than -- you know, because of the  
25 conflict of interest forms that we have out.

1           Also on the -- on the clearance --

2           **DR. ZIEMER:** Well, I think he'd be all right at  
3           Iowa, he'd --

4           **MR. ESPINOSA:** Oh, at Iowa, yeah.

5           **DR. ZIEMER:** Yeah.

6           **MR. ESPINOSA:** And just a little bit more on Q  
7           clearances, I know at Los Alamos DOE started a  
8           program for a rapid clearance, and I don't know  
9           if that's anything this Board has looked at in  
10          providing -- or -- or getting information out  
11          for SEC (sic) to apply for.

12          **DR. ZIEMER:** Rapid clearance?

13          **MR. ESPINOSA:** Yeah.

14          **DR. ZIEMER:** Yeah. Of course one would ask  
15          what that means in DOE --

16          **DR. WADE:** I shudder to think what that --

17          **DR. ZIEMER:** Less than a decade.

18          **MR. GRIFFON:** My clearance was about a two-year  
19          process, but I heard during this process that  
20          if they really want to expedite it, they can do  
21          it in a couple of days, so I don't know.

22          **DR. ZIEMER:** They don't do that with the rank  
23          and file, I think.

24          **MR. GRIFFON:** Right, right.

25          **DR. ANDERSON:** Let's just be sure we have it

1 all together at the next meeting so we don't  
2 have to --

3 **MR. GRIFFON:** Well, I guess what this raises is  
4 can -- can we either -- some Board members  
5 maybe along with SC&A, before the next  
6 conference call, have an opportunity to in any  
7 way look at that. I think it's pretty --

8 **DR. ZIEMER:** I think SC&A is still waiting for  
9 Qs. Isn't that correct?

10 **DR. MAURO:** Yes, we are, but I've been told by  
11 Joe that -- Joe Fitzgerald, by the way, is one  
12 of the individuals that will be seeking -- that  
13 it's imminent. And -- and that -- and the plan  
14 that we have is we have a team that is raising  
15 questions and that tho-- some of those can only  
16 be answered by looking at classified documents,  
17 so Joe and Kathy DeMers will be sort of the  
18 people who would be going forward into the Q or  
19 into the classified documents and try to answer  
20 the questions that'll be imposed by the team.  
21 We -- the -- an example would be okay, there's  
22 a construct that supposedly bounds the  
23 exposures that the pre-'62 folks were exposed  
24 to while handling the pits, and there is -- the  
25 construct is it does-- it's not a real weapon,

1           it is a hypothetical weapon. The question that  
2           we're posing is, in the judgment of the folks  
3           that have the Q clearance when they go into the  
4           literature, is there good reason to believe  
5           that in fact that construct is bounding.

6           That's the -- when all is said and done, that's  
7           going to be the heart of our work.

8           **DR. ZIEMER:** Where do the -- the documents that  
9           would be involved in this, do they exist -- are  
10          they at NIOSH? No.

11          **DR. WADE:** Jim, could you come and talk to us  
12          about -- if this was to be able to happen, that  
13          Board members could look at the documents, how  
14          would it happen?

15          **DR. NETON:** Right, they would have to travel to  
16          -- I believe it's Germantown. The office is in  
17          Washington area.

18          **DR. ZIEMER:** They're not sitting out in Iowa  
19          someplace.

20          **DR. NETON:** NIOSH does not possess any  
21          classified information at all.

22          **DR. ZIEMER:** Right.

23          **DR. NETON:** And -- but we would be willing to  
24          send our health physicist who has a Q clearance  
25          with the team, sit down in classified space --

1           **DR. ZIEMER:** And go through --

2           **DR. NETON:** -- and we'll coordinate with the  
3 Department of Energy and they would have access  
4 to the same documents that our health physicist  
5 did.

6           **MR. GRIFFON:** We may want to --

7           **DR. ZIEMER:** Could we get Mark and Bob, for  
8 example?

9           **MR. GRIFFON:** Well, the question -- what I was  
10 going to say, maybe -- I know the timing is  
11 critical here. I was going to say maybe the  
12 Board wants to send a workgroup, which could be  
13 Bob and I, you know, but I don't know that we  
14 can assign...

15           **DR. ZIEMER:** That would -- that would have to  
16 be done, I think --

17           **MR. GRIFFON:** A week till the conference call.  
18 Right?

19           **DR. ZIEMER:** Actually the Chair can assign  
20 workgroups.

21           **MR. GRIFFON:** Okay.

22           **DR. ZIEMER:** So if that's something that could  
23 be done before the next meeting, I think I have  
24 the authority to do that.

25           **MR. GRIFFON:** I would -- I would -- I suppose

1 volunteer, if -- but also I'd like to -- to --  
2 if it was possible, to do it along with the  
3 SC&A team and the NIO-- you know.

4 **DR. ZIEMER:** Right, if we could coordinate Joe  
5 -- is it just Joe or was one other person, was  
6 --

7 **DR. MAURO:** Joe Fitzgerald --

8 **DR. ZIEMER:** -- is Hans involved?

9 **DR. MAURO:** Not yet. Joe Fitzgerald and Kathy  
10 DeMers.

11 **DR. ZIEMER:** And Kathy?

12 **MR. GRIFFON:** Also, is there a contact at NIOSH  
13 that we can wal-- that can walk through my  
14 clearance and see if I need any revision to my  
15 need-to-know to get into the Germantown  
16 facility and to review weapons-related records.  
17 I'm not sure -- I think I have -- I'm not sure  
18 I have the ability to look at weapons-  
19 related...

20 **DR. NETON:** I agree, I mean there's -- it's not  
21 an automatic if you have a Q clearance, I don't  
22 think.

23 **MR. GRIFFON:** That's right.

24 **DR. NETON:** But Martha DiMuzio in our office is  
25 coordinating that effort with the -- we're

1           working through the Office of Worker Advocacy  
2           in this regard, so --

3           **DR. ZIEMER:** For -- for the SC&A folks  
4           (unintelligible) --

5           **DR. NETON:** -- as well, so --

6           **DR. ZIEMER:** We'll ask Lew to coordinate --

7           **MR. GRIFFON:** I mean -- I mean if I could ask -  
8           -

9           **DR. ZIEMER:** Let's try to get --

10          **MR. GRIFFON:** I could provide my badge number  
11          and stuff if someone can run it through and see  
12          --

13          **DR. NETON:** If the Board agrees who's going to  
14          be sent --

15          **DR. ZIEMER:** I think it would be Mark and Bob  
16          would be the people, if they'd agree to it. I  
17          think Bob has some expertise in that area and  
18          has worked in the weapons area.

19          **DR. NETON:** Okay.

20          **DR. ZIEMER:** Richard?

21          **MR. ESPINOSA:** I just want to make sure that  
22          we're not bound -- when you're setting up the  
23          working group that we're not bound like the  
24          subcommittee to people --

25          **DR. ZIEMER:** No, the working group is ad hoc

1 and we would charge this group with  
2 specifically accompanying our contractor to  
3 examine the Iowa data that's apparently held in  
4 Germantown to help ascertain its -- its value  
5 in -- in making credible dose reconstructions,  
6 something along that line.

7 **MR. ESPINOSA:** Okay. Just another thing --

8 **DR. ZIEMER:** And then they would report back to  
9 the Board.

10 **MR. ESPINOSA:** I understand that the  
11 information will be coming from, you know,  
12 Iowa, the IAAP. But it -- we still have to be  
13 careful with the conflict of interest because,  
14 you know, some of our Board members are tied in  
15 with NTS and some of that information might be  
16 NTS in-- NTS information, also.

17 **DR. ANDERSON:** We won't know that.

18 **MR. ESPINOSA:** Yeah, we won't know that, so...

19 **DR. ZIEMER:** Well, and then at that point they  
20 would have to somehow recluse (sic) themselves.

21 **MR. GRIFFON:** (Unintelligible)

22 **DR. ZIEMER:** Yeah. Yeah, and you don't know  
23 that out the door, I guess, yeah.

24 **MR. GRIFFON:** Right.

25 **DR. ZIEMER:** A good point, though.

1           **DR. ANDERSON:** No, I mean the -- the point is,  
2           if you -- if somebody has already looked at  
3           that data --

4           **DR. NETON:** I'm not convinced that they could  
5           even reveal that, though.

6           **DR. ANDERSON:** Well, I -- yeah, I -- well, I --  
7           I would say you do -- you would know that.  
8           Whether you could reveal it or not, you know,  
9           it could -- it would help with the construction  
10          of the workgroup.

11          **DR. ZIEMER:** Well, let the Chair exercise that  
12          prerogative and appoint the working group of  
13          Mark Griffon and Bob Presley --

14          **DR. ANDERSON:** Second.

15          **DR. ZIEMER:** -- to carry that out and -- I  
16          don't -- I don't think it requires -- we'll  
17          take it that it's agreed to by the  
18          subcommittee, but I think the Chair has the  
19          prerogative of appointing workgroups, and these  
20          are ad hoc. It's a one-time job and they would  
21          report back to the Board. We'll try to  
22          coordinate their effort with our contractor and  
23          with the NIOSH person to gather the appropriate  
24          information.

25          **MR. GRIFFON:** Can I --

1           **DR. ZIEMER:** Anything else on Iowa at the  
2 moment?

3           **MR. GRIFFON:** I just wanted to ask --  
4 apparently NIOSH -- Jim Neton, maybe -- if --  
5 if there are any new declassified documents  
6 available for Iowa and are they on the O drive  
7 that we have access to or do you know?

8           **DR. NETON:** There are no additional  
9 declassified documents available from -- since  
10 the time that Rev. -- Revision 1 was -- was  
11 written and authorized by DOE as not containing  
12 classified information.

13          **DR. ZIEMER:** Revision 1 is this new revision.

14          **DR. NETON:** Correct, Revision 1 -- the  
15 documents -- there are no additional documents  
16 that have been declassified. What was  
17 determined to be declassified or unclassified  
18 was the content of Revision 1. Revision 1, as  
19 written by NIOSH, remained intact with no  
20 redactions by the Department of Energy.

21          **DR. ZIEMER:** At the time we were meeting  
22 Revision 1 actually existed.

23          **DR. NETON:** It existed, but it was undergoing  
24 classification --

25          **DR. ZIEMER:** It was undergoing review, so we

1 did not have access to it.

2 **DR. NETON:** Right. And in fact what happened  
3 is the Department of Energy did not redact  
4 anything from our Revision 1 of the document.  
5 It stayed completely intact as written, which  
6 could not have been a priori determined by  
7 NIOSH.

8 **DR. ZIEMER:** So we had Rev. 0 to work with.  
9 Rev. 1 existed, but couldn't be revealed to us  
10 'cause it was undergoing review by DOE, and  
11 then they didn't finish that review till after  
12 our meeting. Okay.

13 **DR. ANDERSON:** So is this -- we're hoping to  
14 get this done by the April call or are we  
15 waiting -- is this a July issue?

16 **DR. WADE:** Or by the April meeting. I mean it  
17 -- there's an April call in early April, and  
18 then there's an April meeting at the end of  
19 April --

20 **MR. GRIFFON:** We're going to be in Iowa.

21 **DR. WADE:** We're going to be in Iowa, so it's  
22 our hope to have this --

23 **DR. ANDERSON:** (Off microphone)  
24 (Unintelligible)

25 **DR. WADE:** -- by the April -- the end of April

1 meeting in Iowa.

2 **DR. ANDERSON:** Okay.

3 **DR. ZIEMER:** Right, and -- and --

4 **DR. ANDERSON:** (Off microphone)

5 (Unintelligible) have that time line.

6 **DR. ZIEMER:** And the meeting in -- the phone  
7 call meeting in early April will be one where  
8 we talk about process, including this issue of  
9 the Chair's handling of Iowa and what the Board  
10 would like to do with previous action, and  
11 what's coming up with this procedurally. We'll  
12 talk about that, we'll talk about the process  
13 for having the contractor assist with task  
14 orders and -- was there another item?

15 **DR. WADE:** Well, this issue of are there  
16 particular questions we would want to pose to  
17 SC&A relative to their review of the Iowa site  
18 profile, and we have asked them nothing at this  
19 point but to review the site profile. I think  
20 the Board might want to pose some particular  
21 questions, and that would be discussed on that  
22 call.

23 **MR. GIBSON:** NIOSH is -- NIOSH is going to  
24 bring the protective gear for the Advisory  
25 Board (unintelligible)?

1           **DR. ANDERSON:** (Off microphone)

2           (Unintelligible)

3           (On microphone) I just think it's clear that we  
4           have our strategy, and if that changes that,  
5           you know, we make that known to everybody as  
6           soon as possible. And the other question I had  
7           is are we going to be -- are you going to be  
8           sending a letter detailing this to the  
9           Congressional people so they know what our --

10          **DR. ZIEMER:** Well --

11          **DR. ANDERSON:** -- strategy is.

12          **DR. ZIEMER:** Yeah. I think Lew has had some  
13          contacts with the Congressional people. You  
14          know, I -- I've gotten -- in fact, my wife  
15          informs me today that I got another letter from  
16          the Senator today. Maybe it's the same one  
17          that I've already seen, but in any event, I'm --  
18          - I'm somewhat hogtied in res-- I can't respond  
19          to those unilaterally, either. You recall the  
20          Board does not wish the Chair to respond to  
21          Congressional letters without the Board seeing  
22          them, so that's a little awkward. But Lew has  
23          had an opportunity to interact a bit with the  
24          staff on the Hill, so they're aware of some of  
25          these issues.

1           **DR. WADE:** Yes --

2           **DR. ZIEMER:** They're not necessarily happy with  
3 them, but they're aware of what's going on.

4           **DR. WADE:** I do meet with the delegations from  
5 Iowa and I do understand their concerns, and  
6 NIOSH is communicating -- we believe very  
7 clearly -- with them as to events past, present  
8 and future.

9           **DR. ANDERSON:** Okay, that -- I just -- I just  
10 want to be sure that our communication lines  
11 are -- are not going to lead to us getting some  
12 other irate comments.

13           **DR. ZIEMER:** Well, one thing that will be very  
14 difficult is if we get out to Cedar Rapids and  
15 we are not ready -- we don't have the  
16 information, we don't have the report or we  
17 haven't reviewed the new document or we're not  
18 --

19           **MR. GRIFFON:** We may not have clearances by  
20 then. I mean I hope we can expedite them, but  
21 --

22           **DR. ZIEMER:** Yeah, and if that occurs, that --  
23 that's going to be extremely awkward to go out  
24 there and not be in a position to act on the  
25 Iowa petition. In fact, it may -- you know, we

1           -- we may all head to Oak Ridge instead.

2           **MR. ESPINOSA:** Just make sure Cori sits us up  
3 close to the exit.

4           **DR. MAURO:** Excuse me, Dr. Ziemer, I have a  
5 process question related to these -- unlike the  
6 other site profile reviews, it was a process  
7 whereby there was -- where we would generate a  
8 list of questions, then we would deliver them -  
9 - and there was -- it was a protracted process.  
10 What we're in a mode now is that we sent you  
11 the first set of approximately 50 questions.  
12 Since that date I received additional -- we're  
13 still working, as you can imagine, and we have  
14 about another seven or eight more questions  
15 that have been sent to me.  
16 The question becomes can we somehow construct a  
17 living process over the next three weeks --  
18 'cause that's what we've got -- whereby we --  
19 we're -- we're maturing in our understanding of  
20 the issues. Our questions are getting more  
21 refined. I'd like to move those out, have them  
22 be -- some of them may be very good questions,  
23 some of them may be not very good questions;  
24 we're not at a position yet to be able to make  
25 that distinction.

1 Normally we would spend a lot more time  
2 researching our questions, reading the back-up  
3 literature so that we don't ask silly  
4 questions. I'd -- right now I'm not so worried  
5 about that. I'd like to move out the questions  
6 as they're generated. They'll go through an  
7 internal SC&A screening to make sure that  
8 they're appropriate and reasonable, but I'd  
9 like to keep moving them out to you folks and  
10 to NIOSH so they could see in real time where  
11 we are.

12 And then now the question becomes how do we  
13 engage in the dialogue with NIOSH and the Board  
14 in a living process? For example, there could  
15 be certainly phone calls. There should -- they  
16 may be recorded, but I'd like to request a mode  
17 of operation that is more continuous and  
18 interactive as we move through the next three  
19 weeks, which is somewhat different than what  
20 we've done in the past. I think that only in  
21 that way will we get to the point where we can  
22 deliver a report to you that you will have at  
23 least a week -- hopefully a little more --  
24 before the meeting that would represent -- a  
25 report that is -- is a mature report that has

1 received adequate interaction with factual  
2 reviews. So it becomes a little bit more of a  
3 living process. Whether or not NIOSH and the  
4 Board would like to proceed in that fashion,  
5 that's how we'd like to proceed.

6 **DR. ZIEMER:** When John first posed this --  
7 essentially this question to me, it -- in terms  
8 of what should the Board's role in this be, and  
9 of course none of us individually can act on  
10 behalf of the Board, so it is my sense of it  
11 that these questions essentially become  
12 questions to NIOSH relative to their document  
13 and --

14 **DR. MAURO:** Yes.

15 **DR. ZIEMER:** -- and -- and John is expecting  
16 their response. It seems to me the Board can  
17 track what's going on, and Board members may  
18 even raise additional questions or ask for  
19 clarification of things. But we can't answer  
20 the questions in terms of a Board position.

21 **DR. MAURO:** Uh-huh.

22 **DR. ZIEMER:** But I thought it would be useful -  
23 - and this is kind of a new process, at least  
24 be aware of what's going on so I --

25 **MR. GRIFFON:** Kept in the loop.

1           **DR. ZIEMER:** Kept in the loop, and at some  
2 point, if there is going to be sort of a face-  
3 to-face -- like an issue resolution time, we  
4 certainly want to have a presence there. But  
5 otherwise, this is kind of a new -- this is a  
6 special situation. But the Board's not really  
7 in a position to sort of take any actions on  
8 those questions other than to be aware of what  
9 they are, what's being raised and -- and having  
10 the new document. If we have questions to  
11 raise we can throw those in the pot and say  
12 yeah -- or -- or would you consider this  
13 additional part of a -- of a question that's  
14 already been asked or whatever. So I think  
15 we're free to do that 'cause you can ask a  
16 question. That doesn't represent a Board  
17 position. But -- but to go back and say this  
18 is -- this is how you should resolve that, I  
19 don't want to do that; I don't think we want  
20 others to do that. So these will essentially  
21 be questions for NIOSH --

22           **DR. MAURO:** Yes --

23           **DR. ZIEMER:** -- to deal with.

24           **DR. MAURO:** -- but we also recognize that it  
25 should -- the dialogue with NIOSH should be one

1           that is -- that the Board sits in on --

2           **DR. ZIEMER:** Yeah.

3           **DR. MAURO:** -- as part of the process, because  
4           we're anxious to engage NIOSH on the first set  
5           of 50 questions.

6           **DR. ZIEMER:** Right. And so insofar as there's  
7           responses, I think we want to hear the  
8           responses. Jim, just keep us in the loop. And  
9           then at some point if there's a sit-down or a  
10          telephone kind of conference needed, we want to  
11          have a Board presence there and we can do that  
12          on an ad hoc basis, I think.

13          **DR. WADE:** Let's just talk through that. So --  
14          I mean I would commit that any contact between  
15          SC&A and NIOSH on this issue would be recorded  
16          and a transcript kept. Do you want a Board  
17          member to be present on any phone call between  
18          SC&A and NIOSH at this point? I'm asking this  
19          question now -- I'm asking the Board that -- or  
20          the subcommittee that.

21          **DR. ZIEMER:** It seems to me that there'd have  
22          to be a judgment on the level of significance  
23          of the phone call.

24          **DR. WADE:** Okay.

25          **DR. ZIEMER:** If somebody just said what did you

1 mean when you asked that question, what does  
2 this word mean, that's one thing. If they're  
3 going to have a dialogue and debate some issue,  
4 I think that's where we're talking about --  
5 **DR. MAURO:** That's what I mean. The nature of  
6 the relationship is a dialogue, that's an  
7 ongoing dialogue. And given the ground rules  
8 of transparency, I believe it's important that  
9 certainly Board members be -- listen in and be  
10 part of that -- selected Board members. We  
11 could certainly, if it's a telephone call, have  
12 it recorded, have a court -- I'm not sure how  
13 you'd like to proceed, but I'm looking for  
14 guidance from the Board on when we engage in  
15 this -- what I'd like to be called -- call an  
16 ongoing dialogue over the next three weeks. It  
17 may be -- it may involve a weekly telephone  
18 call to NIOSH that we would continue the  
19 dialogue because as you could almost imagine --  
20 right now Kathy DeMers is out interviewing  
21 folks related to these matters. Very soon Joe  
22 and Kathy will be looking at classified  
23 documents and -- and we're -- and -- our list  
24 of questions is going to evolve, and I'd like  
25 the Board and NIOSH to be close to this process

1           because when we deliver the report three weeks  
2           from now, I -- I would -- I would hope that's  
3           not the first time NIOSH and the Board sees our  
4           report.

5           **DR. ZIEMER:** Well, I think it's going to have  
6           to be Bob and Mark -- well, I mean the -- the  
7           questions are going to start to impinge on --  
8           on --

9           **MR. GRIFFON:** Well, we certainly can't discuss  
10          classified information on a phone call, so I'd  
11          say maybe -- maybe Bob and I, but maybe someone  
12          else, as well, if you want a third person.

13          **DR. ZIEMER:** Well, I'd be glad to be in the  
14          loop, but I -- it's -- it's not clear to me at  
15          this point --

16          **DR. WADE:** Can I?

17          **DR. ZIEMER:** Yeah.

18          **DR. WADE:** Let me propose this solution, that  
19          any interaction -- be it on the phone or face  
20          to face -- between SC&A and NIOSH on this issue  
21          will be recorded. Any interaction, the Board  
22          will be notified of that interaction and  
23          allowed to participate, if they wish. But on  
24          those issues that, in the opinion of NIOSH  
25          and/or SC&A elevate to a certain level that it

1 appears to be a substantive interaction, that  
2 those would not take place without a Board  
3 member present.

4 **MR. GRIFFON:** That's (unintelligible), yeah.

5 **DR. WADE:** Thank you. Okay?

6 **DR. ZIEMER:** Is that okay? Okay.

7 **MR. GRIFFON:** Let me --

8 **DR. ZIEMER:** Yeah.

9 **MR. GRIFFON:** Can I ask if -- if we're closing  
10 on Iowa, I've got to -- I -- some of us  
11 probably have flights, but I have one question  
12 on logistics on Iowa. If -- if -- assuming we  
13 get these clearances in a timely fashion, SCA  
14 is going to provide to us in their site profile  
15 review a -- a review of some of that  
16 information, classified records. I'm sure that  
17 they're going to have to run that through the  
18 same declassification process that NIOSH went  
19 through with Rev. 1, so there's another --  
20 another delay in there. I'm getting quite  
21 nervous about the time frame and what we're  
22 setting ourselves up for in Iowa, you know,  
23 just to put -- just to put that out there. I  
24 mean it's not only getting the clearances, it's  
25 anything they generate that -- that is covering

1           classified items, certainly they're going to  
2           have to run that through a declassification  
3           officer to assure that it's not -- they're not  
4           generating a classified document.

5           **DR. ZIEMER:** Does that --

6           **DR. NETON:** Unless their decision was that they  
7           were in complete agreement with the NIOSH  
8           profile and there were no -- no dissenting  
9           opinions, I suppose. But yeah, to the extent  
10          where there were differences that are raised  
11          based on the classified information, yeah, it  
12          would have to be reviewed. We've been -- we've  
13          been having very good cooperation with the  
14          Department of Energy thus far, though, on  
15          obtaining quick and prompt reviews of documents  
16          that have been generated. I have to say the  
17          cooperation there has been excellent within the  
18          Office of Worker Advocacy.

19          I had a quick question, though, on -- on what  
20          is meant by "recording". I expect these  
21          discussions to be fairly -- fairly spontaneous  
22          as they arise, and are we referring to a  
23          physical recording or a court recorder with a  
24          transcript, because that -- that would be a  
25          limiting factor, I think. It's very difficult

1 to obtain --

2 **DR. ZIEMER:** Well, in the past haven't we just  
3 kept minutes of these interactions, John, if  
4 they're not face-to-face?

5 **DR. MAURO:** The last expanded review cycle  
6 there was a court reporter.

7 **DR. ZIEMER:** On the telephone?

8 **DR. MAURO:** On the telephone. That was the one  
9 that was on January 12th at the McLean office.

10 **MR. GRIFFON:** But that was -- that was -- I  
11 think that was where we raised it to the higher  
12 bar, maybe --

13 **DR. MAURO:** Yes, we did.

14 **MR. GRIFFON:** -- so...

15 **DR. MAURO:** I think that we're operating on  
16 that. See, this is not a factual review  
17 process now. This is going to be an engagement  
18 --

19 **MR. GRIFFON:** Right.

20 **DR. MAURO:** -- where I believe it's on that  
21 level where we're going to be discussing issues  
22 of substance. Certainly there's going to be  
23 this classification overriding problem. I'm  
24 not quite sure how we're going to deal with  
25 that. That is, I -- I don't have the

1 classification, but I know right now I'm very  
2 interested in finding out whether or not the  
3 construct for the pre-'62 pit is in fact a  
4 bounding situation. And we have a list of at  
5 least a dozen questions that are in the set of  
6 50 that we'd like answered, and -- and to  
7 discuss with NIOSH.

8 **MR. GRIFFON:** I think given the nature of this  
9 review and its potential impact on the  
10 petition, I think we need to transcribe these,  
11 at least for this --

12 **DR. WADE:** We certainly need to -- to have the  
13 ability to have a transcript. We'll work out  
14 the details of recording and transcript or --

15 **MR. GRIFFON:** Okay.

16 **DR. WADE:** -- or actual --

17 **MR. GRIFFON:** Right.

18 **DR. WADE:** But we'll have a recording of  
19 everything that's discussed.

20 **DR. ZIEMER:** Do we need to have a Plan B for  
21 the meeting if we don't finish the Iowa work in  
22 time for --

23 **DR. ANDERSON:** What's the drop-dead date for...

24 **DR. ZIEMER:** This is a difficult question for  
25 Cori, but I mean if we go to Iowa and we're not

1 prepared to act on the petition, I think it's  
2 going to be a disaster.

3 **DR. WADE:** Well, I think we have to use that  
4 meeting we have the first week in April to  
5 decide if we're ready to go or not.

6 **MR. GRIFFON:** Yeah, and we'll bring it up --

7 **DR. WADE:** We might have to cancel the meeting.

8 **MS. HOMER:** I need to sign the contract very  
9 soon.

10 **DR. WADE:** Well, we'll work through those --

11 **MS. HOMER:** Mid-week next week.

12 **DR. WADE:** We'll work through those details. I  
13 think on our call in early April if we feel  
14 we're not prepared, we need to make that  
15 decision then and to take the appropriate  
16 steps.

17 **DR. ANDERSON:** That's two weeks. Right?

18 **DR. ZIEMER:** Yeah, it's coming up very rapidly.

19 **DR. DEHART:** Do we have a date and time for the  
20 call?

21 **MS. HOMER:** I'm sorry?

22 **DR. WADE:** Date and time for the call in early  
23 April.

24 **DR. ZIEMER:** I don't think we --

25 **MS. HOMER:** April 5th -- it's most likely going

1 to be April 5th from 1:30 to 5:30.

2 **MR. GRIFFON:** And we were able to get a quorum  
3 for that call?

4 **DR. ANDERSON:** Eastern time?

5 **MS. HOMER:** Eastern.

6 **DR. WADE:** Yes.

7 **DR. ZIEMER:** Eastern time.

8 **DR. WADE:** We have a quorum.

9 **DR. ZIEMER:** Is there anything else on Iowa  
10 that we need to discuss? What about  
11 Mallinckrodt?

12 **DR. WADE:** I mean I do think we've had it  
13 reported to us -- I mean the revised site  
14 profile has been issued by NIOSH and is in the  
15 hands of SC&A and John, we -- the Board could  
16 expect to see the SC&A review when?

17 **DR. MAURO:** Yes, we started work -- in fact, I  
18 actually have a little mini-report that was  
19 sent to me yesterday by FAX. We've identified  
20 some of the issues and we're moving  
21 aggressively. We will meet our one-month  
22 commitment from the date we were turned on. I  
23 think we were turned on a week ago. We will --  
24 we will deliver within the one-week -- one-  
25 month period, as we discussed at the last

1 meeting. And it will be -- basically the --  
2 the report will take the form of each of the  
3 issues -- findings and observations, as you  
4 recall, the degree to which the Mallinckrodt  
5 report addresses those issues and the degree to  
6 which we concur or --

7 **DR. ZIEMER:** What is your delivery date?

8 **DR. MAURO:** One month -- when -- the day -- one  
9 month from the day you asked us to proceed,  
10 which was I believe sometime last -- last week.  
11 I'm trying to think of the exact date. I'd  
12 have to go check in my records, but --

13 **DR. ZIEMER:** It's roughly April 15th, though.

14 **DR. MAURO:** Yeah, we're -- we're -- yeah, we're  
15 -- well, we're -- middle of April is when we  
16 plan to deliver it. I don't have the exact  
17 date, but that's about one month.

18 **DR. ZIEMER:** And then there has to be an  
19 opportunity for NIOSH to --

20 **DR. MAURO:** Yes.

21 **DR. ZIEMER:** -- respond.

22 **DR. MAURO:** Yes.

23 **DR. ZIEMER:** So we're -- what we're looking for  
24 at our -- if we're going to -- we've committed  
25 to take action on Mallinckrodt at our next

1 meeting. And to do that, we not only need the  
2 SC&A review, but we need the NIOSH response.

3 **MR. GRIFFON:** Right.

4 **DR. MAURO:** We're -- we're a lot more  
5 optimistic of being able to deliver our work  
6 product to you early, with adequate time for  
7 discussion with the Board and NIOSH regarding  
8 our review of Mallinckrodt than we are with  
9 regard to Iowa. We're -- we're nervous about  
10 whether we're going to be able to do  
11 (unintelligible) --

12 **DR. ZIEMER:** Yeah, but then -- but then NIOSH  
13 needs some turnaround time, also, on -- before  
14 our meeting, and I don't know -- Jim --

15 **MR. GRIFFON:** Eight days.

16 **DR. ZIEMER:** -- that's pushing your folks quite  
17 a bit --

18 **DR. WADE:** Wait, John, am I -- do I understand  
19 that in -- factored into your delivery date to  
20 the Board is an opportunity for you to have a  
21 discussion with NIOSH?

22 **DR. MAURO:** We certainly could work that in.  
23 That is right -- for example, right now I have  
24 a list of our preliminary observations related  
25 to Rev. 1 of Mallinckrodt. I've got it here in

1 my hand. In theory, we could convene a meeting  
2 right now and sit down and go over each of  
3 these items and talk about them.

4 We could certainly wait until we -- this --  
5 this is a very early response. We could --  
6 certainly we could have that meeting early  
7 April to go over our initial list of findings  
8 so that -- and deliver our report by April  
9 15th. At that time you'll actually have the  
10 report and I think what -- with at least a  
11 week, I guess, in front of us for -- before the  
12 -- before the meeting. The meeting is  
13 scheduled for the 24th. So -- so -- I mean it  
14 --

15 **DR. ZIEMER:** It seems to me if NIOSH sees it  
16 for the first time when we see it that they're  
17 really behind the eight ball.

18 **DR. MAURO:** I could -- I mean I could certainly  
19 leave with NIOSH right now the memo that I have  
20 of what our initial reactions are. I mean I'm  
21 -- is that appropriate? Because I have in my  
22 hand -- our team has reviewed the -- gave the  
23 first review --

24 **DR. ZIEMER:** Well, that could be similar to the  
25 early -- it's almost like the early factual

1 review before it comes to the Board, chance for  
2 NIOSH to look at...

3 **DR. MAURO:** Yeah.

4 **DR. ZIEMER:** Does that seem right to the  
5 others?

6 **DR. DEHART:** I don't know how far along he is.

7 **DR. MAURO:** It's very early. The bottom line  
8 is we had two individuals -- we --

9 **DR. ZIEMER:** Well, we don't want you -- don't  
10 want NIOSH spending a lot of time on things  
11 that may go away when --

12 **DR. MAURO:** That's true.

13 **DR. ZIEMER:** I think you have to use some  
14 judgment as to when they need to see that, but  
15 I'm just concerned that they have an  
16 opportunity before the Board meeting if -- if  
17 we get to the Board meeting and NIOSH hasn't  
18 had a chance to sort of do whatever review of  
19 your findings, then we're back in an awkward  
20 position in terms of taking action.

21 **DR. MAURO:** I gue-- if I had my 'druthers, the  
22 -- sometime the first week in April to deliver  
23 our list of findings and observations related  
24 to Rev. 1 of Mallinckrodt, have our conference  
25 call, our mee-- physical face-to-face meeting

1 with NIOSH regarding our initial -- not our  
2 initial, basically our findings, get feedback  
3 and then prepare our report and deliver by the  
4 15th.

5 **DR. ZIEMER:** Does that make sense to others? I  
6 -- seems reasonable to me.

7 **DR. WADE:** More than reasonable.

8 **DR. ZIEMER:** Now Jim, you want to comment and -  
9 - 'cause it impacts on your group and --

10 **DR. NETON:** I guess I would like to clarify --  
11 I believe SC&A's reviewing the entire document.  
12 Is that -- is that correct, John? I mean back  
13 to 1942?

14 **DR. MAURO:** Yes.

15 **DR. NETON:** And I'm concerned -- if the time is  
16 of the essence here, has not the Board already  
17 made a recommendation about the early years at  
18 Mallinckrodt? So are we -- are we -- do we  
19 really want to expend a lot of effort in SC&A  
20 reviewing material that the Board has already  
21 decided is not useful for doing dose  
22 reconstructions?

23 **DR. ZIEMER:** There's only one group at  
24 Mallinckrodt that we have to take action on.  
25 That's the --

1           **DR. NETON:** Well, that's my point, and so do we  
2 really -- would it be best served if we focused  
3 on the quality issues related to the discussion  
4 that's going to occur at the Board meeting  
5 rather than have SC&A review the entire  
6 document, going back -- and I think the early  
7 years were the more problematic, sticky points  
8 in the first review.

9           **MR. GRIFFON:** I think it's appropriate to  
10 priori-- prioritize that.

11           **DR. NETON:** That's what I was trying to get --  
12 and you know, at the risk of changing SC&A's  
13 direction midstream here, I just bring that up  
14 as a -- as a point.

15           **DR. ZIEMER:** Well, that's -- we have to take  
16 action on that third group. I forget those  
17 years, but that -- that clearly needs to be  
18 where the focus is.

19           **MR. GRIFFON:** John, is that agreeable?

20           **DR. MAURO:** (Off microphone) Yeah, we were  
21 (unintelligible) --

22           **MR. GRIFFON:** Yeah.

23           **DR. MAURO:** So as I understand it, the emphasis  
24 will be on those 1947 to --

25           **DR. ZIEMER:** But -- yeah --

1           **DR. MAURO:** -- '54?

2           **DR. WADE:** '49.

3           **DR. MAURO:** '49, '49. That would be where the  
4 emphasis should be.

5           **MR. GRIFFON:** Right.

6           **DR. MAURO:** That is --

7           **DR. ZIEMER:** We don't want you or NIOSH  
8 expending a lot of effort on the periods that --  
9 -- where the decision has already been made.

10          **MR. GRIFFON:** Right.

11          **DR. MAURO:** Fine.

12          **DR. WADE:** Just on Mallinckrodt, you know, the  
13 Board did make it -- send its letter to the  
14 Secretary. The NIOSH director has prepared his  
15 statement consistent with the Board  
16 recommendation and that's in the hands of the  
17 Secretary now. The clock is --

18          **DR. ZIEMER:** Yeah, the clock is going on that.

19          **DR. WADE:** -- ticking. I think there might be  
20 15 days left for -- for the Secretary to take  
21 action.

22          **DR. ZIEMER:** Rich?

23          **MR. ESPINOSA:** Just a -- on the recommendations  
24 that went from the Board to NIOSH and from  
25 NIOSH to the Secretary, is there any way the

1 Board can receive the information that was sent  
2 to the Secretary (unintelligible) --

3 **DR. ZIEMER:** Oh, yes.

4 **DR. WADE:** Well, I mean we've got to be care--  
5 the -- what you sent to the NIOSH director I  
6 think can be shared, if you wish, with the  
7 Board clearly.

8 **DR. ZIEMER:** But certainly my cover letter,  
9 which has the Board's recommendations, there --  
10 there are a lot of trans-- there were  
11 attachments, like the transcripts and the --  
12 the handouts that Denise -- that we already  
13 have, so you're just talking about the  
14 recommendation letter, I believe. Right?

15 **MR. ESPINOSA:** Well, I would like everything --  
16 I would like what is sent from the Board to  
17 NIOSH, the -- the whole package.

18 **DR. ZIEMER:** The whole package, okay. Well,  
19 it's the -- it's the letter -- my cover letter.  
20 It's like 500 pages of the transcripts -- well,  
21 actually it's only the transcripts for the day  
22 in which we did the Mallinckrodt thing --

23 **DR. WADE:** Uh-huh.

24 **DR. ZIEMER:** -- so it's only about -- perhaps -  
25 - it's about 250 pages of transcripts. It's

1           some PowerPoint presentations by Larry. It's  
2           the petition itself.

3           **MR. GRIFFON:** It's all the materials that we  
4           have.

5           **DR. ZIEMER:** It's all the materials related to  
6           the petition, petition review, the transcripts.  
7           It's Denise's presentation, Larry's  
8           presentation. It's the -- the transcripts of  
9           all the comments by the -- by the public, and  
10          then -- and then a summary of our  
11          recommendations verbatim as we approved them in  
12          the meeting. But yeah, we can -- yeah.

13          **MR. ESPINOSA:** I'm not so much worried about  
14          the information that we were privileged to at  
15          the meeting. It's the information that has  
16          came (sic) out that -- going from NIOSH to the  
17          Secretary.

18          **DR. ZIEMER:** Oh, from NIOSH to the Secretary.

19          **DR. WADE:** Now that -- as -- and you can  
20          correct me if I'm wrong, Liz, but I think that  
21          the -- the NIOSH director's package is  
22          considered pre-decisional at this point, so it  
23          is not public. It will be public once the --  
24          once the Secretary acts on it.

25          **DR. ZIEMER:** Yeah, I don't know what the -- I

1           presume the Secretary will take our stuff,  
2           together with other information from the  
3           agency, and send that forward. I think -- I  
4           think the only thing I can commit to is what we  
5           sent to --

6           **MR. ESPINOSA:** Well, stuff that -- yeah, and I  
7           understand that. I'm not concerned about the  
8           stuff that we're privileged to in the meeting.

9           **DR. ZIEMER:** Already, okay.

10          **MR. GRIFFON:** So once that's a final decision -  
11          - that's a good point, Rich --

12          **MR. ESPINOSA:** Yeah.

13          **MR. GRIFFON:** -- once that's finalized, we --  
14          we will get a copy of.

15          **DR. WADE:** Liz, is that correct? Once the  
16          Secretary makes his decision, that entire  
17          package will be available to the public.

18          **DR. ZIEMER:** To the Board.

19          **MS. HOMOKI-TITUS:** Yes.

20          **DR. ZIEMER:** Oh, okay. Yeah, that's what  
21          you're asking for --

22          **MR. ESPINOSA:** That's exactly --

23          **DR. ZIEMER:** -- what goes up to the Secretary  
24          from NIOSH.

25          **MR. ESPINOSA:** That's exactly what I'm asking.

1           **DR. WADE:** Well, again, we need to be careful.  
2           What goes from the NIOSH director to the  
3           Secretary is pre-decisional and not available  
4           till the Secretary acts on it.

5           **DR. ZIEMER:** Till the Secretary acts on it.

6           **DR. WADE:** Then it is available.

7           **DR. ZIEMER:** Okay. Okay, any other comments or  
8           any other items that we need to consider before  
9           our telephone conference meeting?

10          **MR. GRIFFON:** Well, just the procedures review,  
11          task three. We wanted to --

12          **DR. ZIEMER:** Oh, okay.

13          **MR. GRIFFON:** -- discuss the process.

14          **DR. ZIEMER:** Right, procedures review, task  
15          three. Mark, you had a -- did you have a  
16          recommendation on that? I'll go ahead and give  
17          you the floor on that.

18          **MR. GRIFFON:** I don't have any specific  
19          information with me. I just think we need to  
20          discuss a process going forward on how -- when  
21          -- how and when we're going to deal with that  
22          as a full Board. And I thought that it might  
23          be an appropriate task item for the  
24          subcommittee to at least take an initial crack  
25          at to --

1           **DR. ZIEMER:**   Reviewing --

2           **MR. GRIFFON:**   -- review and --

3           **DR. ZIEMER:**   -- their report --

4           **MR. GRIFFON:**   -- provide a summary to the full  
5           Board.

6           **DR. ZIEMER:**   We have the report --

7           **MR. GRIFFON:**   Right.

8           **DR. ZIEMER:**   -- from SC&A on the procedures  
9           review, and it -- because of the fullness of  
10          the agenda last meeting, we simply --

11          **MR. GRIFFON:**   Yeah.

12          **DR. ZIEMER:**   -- deferred acting on it, but  
13          would you like it to come to the subcommittee  
14          first and talk about it? This could even occur  
15          at our next -- prior to the next Board meeting.

16          **MR. GRIFFON:**   That's what I would propose is  
17          let's put it on the agenda for the next  
18          subcommittee before the full Board meeting --

19          **DR. ZIEMER:**   Before the full Board meeting.

20          **MR. GRIFFON:**   -- just one day right before the  
21          -- yeah.

22          **DR. ZIEMER:**   Uh-huh.

23          **MR. GRIFFON:**   So let's have it on the agenda  
24          there.

25          **DR. ZIEMER:**   Yes. Is that agreeable?

1           **DR. ANDERSON:** (Off microphone) Yes,  
2           (unintelligible).

3           **DR. ZIEMER:** Okay, let's do that and we'll have  
4           it then -- have it ready to look at then.  
5           Thank you.

6           Any other items?

7           **DR. WADE:** I'd just like to close -- I mean I'm  
8           as sensitive, maybe more so than you, on the  
9           timing of the Iowa meeting and -- and we'll be  
10          watching very, very closely to see where we  
11          are. And if at some point it looks like we  
12          cannot have a meaningful meeting, then I'll --  
13          then I'll bring that information to you, Paul,  
14          and we'll have to discuss what to do. But at  
15          this point -- I mean I -- I hold out the hope  
16          that we will be able to have a meaningful  
17          meeting on the Iowa petition in -- at the end  
18          of April in Iowa. And as soon as I'm disabused  
19          of that, I'll let you know.

20          **DR. ZIEMER:** Thank you. Any other questions,  
21          comments? Michael?

22          **MR. GIBSON:** If we're not prepared for the Iowa  
23          meeting are we going to -- we still have plenty  
24          of other work we need to be doing. Are we  
25          going to have a meeting somewhere else?

1           **DR. ZIEMER:** We're still going to meet. It's -  
2           - the issue would be do you -- do you go into  
3           the lion's den without anything to feed to the  
4           lions.

5           **DR. DEHART:** If we go into the lion's den,  
6           we're giving them something to feed on.

7           **MR. GRIFFON:** Yeah, us.

8           **DR. ZIEMER:** Us. Yes, we will definitely have  
9           a meeting, so the question -- and Iowa wasn't  
10          on -- on the picture for the next meeting until  
11          this issue came up on the Iowa petition. We  
12          were going to meet in Oak Ridge, actually. I  
13          think -- I think Robert was a little  
14          disappointed 'cause he was ready to break out  
15          his barbecue, so...

16          **MR. GIBSON:** I think we also committed, prior  
17          to being delayed going to San Francisco, to  
18          meet in Washington, which we have not done.

19          **DR. ZIEMER:** That's correct. That's correct.  
20          Okay, any other items? Motion to adjourn?

21          **UNIDENTIFIED:** (Off microphone) Motion to  
22          adjourn.

23          **DR. ZIEMER:** All in favor will please leave.  
24          Thank you.

25          (Whereupon, the subcommittee adjourned at 12:10 p.m.)

**C E R T I F I C A T E   O F   C O U R T   R E P O R T E R****STATE OF GEORGIA****COUNTY OF FULTON**

I, Steven Ray Green, Certified Merit Court Reporter, do hereby certify that I reported the above and foregoing on March 24 and 25, 2005; and it is a true and accurate transcript of the testimony captioned herein.

I further certify that I am neither kin nor counsel to any of the parties herein, nor have any interest in the cause named herein.

WITNESS my hand and official seal this the 17th day of April, 2005.

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**STEVEN RAY GREEN, CCR**

**CERTIFIED MERIT COURT REPORTER****CERTIFICATE NUMBER:   A-2102**