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

convenes

MEETING 44

ADVISORY BOARD ON  
RADIATION AND WORKER HEALTH

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Meeting of the Advisory Board on Radiation and  
Worker Health held at the Cincinnati Marriott  
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Feb. 9, 2007

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## P R O C E E D I N G S

(8:30 a.m.)

WELCOME AND OPENING COMMENTSDR. PAUL ZIEMER, CHAIRDR. LEWIS WADE, DFO

1 DR. ZIEMER: Good morning, folks. I'm going to call  
2 the meeting to order. Welcome to the third day  
3 of the 43rd (sic) meeting of the Advisory Board  
4 on Radiation and Worker Health.

5 I'd like to remind you again to register your  
6 attendance, if you've not already done so, in  
7 the foyer.

8 Looking at today's agenda, also I'd like to  
9 remind you that the item that's listed for  
10 right after lunch now is -- has been deleted  
11 from the agenda, so that -- that will shorten  
12 our agenda somewhat. Particularly for those of  
13 you who may have plane arrangements to make or  
14 to rearrange, that may be of value knowing that  
15 the meeting will certainly be shortened  
16 somewhat from the stated agenda times.

17 All the members are here assembled with the  
18 exception of Mike Gibson. And Mike, are you on  
19 the line?

20 MR. GIBSON: Yes, Dr. Ziemer, I am.

21 DR. ZIEMER: Thank you. And Mark Griffon, who

1 had to leave early, so Mark is not with us, but  
2 we do have a quorum.

3 Let me call on Dr. Wade to make some opening  
4 remarks, as well.

5 **DR. WADE:** Only to welcome and to thank. I  
6 mean we've had a very productive meeting to  
7 this point and I look forward to this morning's  
8 deliberations. Thank you.

**REPORT ON UPCOMING SEC PETITIONS**  
**MR. LAVON RUTHERFORD, NIOSH/OCAS**

9 **DR. ZIEMER:** Okay. We're going to begin this  
10 morning with an update on pretty much what's  
11 coming down the road, the outlook for SEC  
12 petitions. LaVon Rutherford from NIOSH is  
13 here. LaVon, you -- welcome again, and we look  
14 forward to hearing what you have for us.

15 **MR. RUTHERFORD:** Thank you, Dr. Ziemer, and the  
16 rest of the Board. As Dr. Ziemer said, I will  
17 be providing some information on upcoming SEC  
18 petitions. The purpose of this presentation is  
19 to provide the Advisory Board and -- and the  
20 public -- the number -- current number of SEC  
21 petitions we're working on, ones that are under  
22 evaluations, and the ones that were looking at  
23 83.14s for. Hopefully this will provide  
24 information to the Advisory Board for

1 preparation of upcoming working group sessions  
2 and Board meetings.

3 As of January 29th we had 83 submi-- SEC  
4 petition submissions. We actually got another  
5 one in yesterday from -- for NTS, which makes  
6 84. We have nine that are in the qualification  
7 process, 34 petitions that have qualified. Of  
8 those, 11 are in the evaluation process and  
9 NIOSH has completed evaluations on 23. We have  
10 34 petitions that did not qualify.

11 Currently there are four SEC petitions that  
12 have completed evaluation and are with the  
13 Board for recommendation. We have Rocky Flats,  
14 Rocky was -- we completed our evaluation report  
15 in early April and presented the evaluation at  
16 the April Board meeting in 2006. The Advisory  
17 Board recommended a working group review that  
18 petition evaluation, and that review is still  
19 ongoing.

20 Chapman Valve, we completed our evaluation on  
21 August 31st of 2006. We presented that  
22 evaluation to the Board at the September 2006  
23 Board meeting. The Board established a working  
24 group, as Dr. Poston mentioned yesterday, and  
25 the review is ongoing.

1 Feed Materials Production Center, Mark Rolfes  
2 presented that evaluation yesterday. We  
3 actually approved that on Novem-- on November  
4 3rd, and the Board established a working group  
5 and the working group is now reviewing that  
6 petition -- that evaluation report.  
7 Our most recently completed evaluation is with  
8 Los Alamos National Lab. We actually sent the  
9 -- or completed -- approved the evaluation and  
10 sent the evaluation report out to the  
11 petitioners and the Board on the 7th of this  
12 month. NIOSH plans to present our evaluation  
13 at the May Board meeting.  
14 Now let's talk about the SEC petitions that --  
15 that are currently in the evaluation process.  
16 We have Bethlehem Steel -- Bethlehem Steel  
17 qualified on August 29th of 2006. We have  
18 actually done our initial internal review of  
19 that evaluation report. We can expect that  
20 that evaluation report will be issued sometime  
21 this month.  
22 The Hanford evaluation -- the Hanford  
23 evaluation is a -- a very large class. If you  
24 look at that 1942 to 1990, that evaluation is a  
25 very big evaluation and we're working hard to

1 meet that 180-day, you know, criteria. There  
2 is a chance that -- that we won't make that. I  
3 just want to let you know that there's --  
4 there's so much information to review for that  
5 evaluation, there's a chance that we will not  
6 make that 180 days.

7 Blockson Chemical, we actually issued an  
8 evaluation report on Blockson Chemical. But  
9 after recognizing the -- it was  
10 misunderstanding on what exposures we actually  
11 had to prove feasibility and actually had to  
12 calculate for dose reconstruction. Once we  
13 determine, with the Department of Labor, what  
14 was expected, we pulled back that evaluation  
15 and we pulled back the Technical Basis Document  
16 and -- and we're in the process of revising  
17 both. We -- we plan to present that evaluation  
18 or to complete that evaluation update and  
19 Technical Basis Document for the May Board  
20 meeting.

21 Dow Chemical, I think -- if you were here  
22 yesterday you heard the update on Dow Chemical.  
23 We are doing some additional data capture. We  
24 -- we -- if you weren't here yesterday, there  
25 were -- we had initially planned to present Dow

1 at this Board meeting, but some new documents  
2 came up in early January and, based on those  
3 new documents, we recognized that we needed to  
4 do a little more work. So we plan to present  
5 at the May Board meeting, but the report should  
6 be complete sometime in April.

7 We have a Y-12 petition. This Y-12 petition  
8 was actually a petition that we received we had  
9 initially not qualified for statisticians from  
10 '51 to '59. It is actually a -- when you --  
11 when you see that the petition is more for an  
12 incident than it is in -- so it's actually for  
13 '58 and '59, but the petitioner petitioned for  
14 '51 to '59. We did not qualify it initially.  
15 The Administrative Review Panel came back and  
16 recommended that we do qualify it based on the  
17 medical evidence provided, and I will talk  
18 about -- I'll give you a little more detail on  
19 that in that the -- the Administrative Review  
20 Panel did not actually disagree totally with  
21 our decision. They disagreed with the fact  
22 that we did not provide them or the petitioner  
23 enough information for everyone to understand  
24 what the feasibility determin-- or --  
25 determination was. Therefore they recommended,

1 based on that, that we should -- we should  
2 qualify the petition and evaluate it.  
3 And there are actually a couple more of those,  
4 and I had talked to Dr. Lockey, who's in charge  
5 of that working group that's looked at the ones  
6 we did not qualify, and we are providing the  
7 letters from -- from the actual Administrative  
8 Review Panel to Dr. Howard, we're providing  
9 those letters to Dr. Lockey's workgroup so he  
10 can understand, you know, what the decision --  
11 the reasons they changed -- or they recommended  
12 that we qualify a couple of these. And then  
13 we're also going to provide Dr. Lockey what  
14 we're going to do in -- in the SEC group at  
15 OCAS to ensure that we don't have this problem  
16 in the future.

17 We have a NUMEC petition and we actually have  
18 our NUMEC petitioner here. We have a NUMEC  
19 petition that was under the same situation. It  
20 was initially not recommended for qualification  
21 by us and the Admin Review Panel -- again, it  
22 was based on our -- or the amount of  
23 information we provided to the petitioner and  
24 the understanding that they could derive from  
25 our own information, they felt that there was

1 not enough information to actually -- for the  
2 petitioner and to the -- and for the Admin  
3 Review Panel to understand how we came up with  
4 our position, so they recommended we qualify  
5 that petition, which we have.

6 Those both we plan to present at -- or plan to  
7 be -- complete the evaluations in July of this  
8 year.

9 We have an Ames Lab petition that was for some  
10 maintenance workers that worked on some thorium  
11 duct-work during the years. We plan to present  
12 that -- or complete that evaluation in July.

13 We have a 83.14 for W. R. Grace, and we -- that  
14 one should be completed and presented at July.  
15 We'll actually complete that earlier, but I  
16 don't think there'll be enough time for the  
17 working group to look over that evaluation to  
18 actually present in May. If -- if we get it in  
19 earlier, you know, I'll let Dr. Melius's  
20 working group -- make them aware of that and --  
21 and we'll work to -- to get it presented at the  
22 May -- at the May Board meeting.

23 I presented at the December Board meeting -- we  
24 have 11 sites that we are looking -- working  
25 through the 83.14 process. Those -- the -- we

1           are still working on those through the 83.14  
2           process.  However, based on lessons learned --  
3           and I will talk about those in a few moments --  
4           we -- we have pulled back in -- in that we are  
5           verifying that we have done all the appropriate  
6           searches for data for information in support of  
7           determining feasibility for dose  
8           reconstruction.  So we've pulled back a little  
9           bit.  We've set up a time line.  We've actually  
10          put it in our -- worked it out in our project  
11          plan, and all 11 of those sites -- we'll  
12          complete that portion of -- of review for data  
13          by March.  Once we've completed that, we will -  
14          - I'll jump here.  Once we've completed that  
15          review and look for additional data in March,  
16          we will -- our contractor will provide us with  
17          a professional judgment and class proposal,  
18          which we will review and hopefully approve and  
19          we'll move forward with those 83.14s.  
20          I mentioned some lessons learned.  I think  
21          there's some lessons learned that -- that we  
22          picked up at the December Board meeting and --  
23          based on our presentations that were given, and  
24          -- and we also discussed them further at the  
25          working group session in January.

1           The General Atomics, we -- we had identified a  
2           class and worked -- presented our evaluation.  
3           However, it -- the information we provided to  
4           the Board -- it wasn't clear enough and not  
5           descriptive enough for the Board to, you know,  
6           come up with a conclusion and understanding of  
7           the class definition and -- and all the issues.  
8           General Atomics had -- there were numerous  
9           issues associated with that petition. However,  
10          we presented one, so what we -- what we talked  
11          about at the working group session and, you  
12          know, just lessons learned from that Board  
13          meeting, that you know, we could provide  
14          additional tables that could be put into the  
15          evaluation report that could -- could lay out  
16          all the issues that we had actually -- the --  
17          all the issues we found in our evaluation  
18          process for that facility that'll actually help  
19          the Board and help people that are reviewing  
20          pull this string and understand where we came  
21          up with our class definition.

22          Another lesson learned that we've actually  
23          talked about, I think you've probably heard us  
24          mention it, we -- we've typically done this in  
25          the past for 83.13 SEC petitions.   83.13 SEC

1 petitions are the standard petitions that are  
2 submitted by a petitioner. We -- we actually  
3 put together a folder with all the supporting  
4 information, example dose reconstructions if  
5 necessary, reference documents and -- and  
6 everything that -- that we used to make our  
7 determination for feasibility and -- and to --  
8 to help the Board and the Board's working  
9 groups understand how we got where, you know,  
10 we ended up with our evaluation. We haven't  
11 done that in the past with 83.13s -- or 83.14s.  
12 The 83.14s we had taken the position that well,  
13 we're recommending adding a class based on an  
14 issue that we found. However, to do everything  
15 justice, we need to provide that information to  
16 the -- to the Board and -- and the Board's  
17 working groups as well. So what we've done is  
18 we've set up folders that the Board and the  
19 Board working group have access to. Dow  
20 Chemical has a folder right now with reference  
21 documentation and -- and all the documents that  
22 we actually used to make our determination, we  
23 have -- have that set up. If you in our -- W.  
24 R. Grace should be there. We will do the same  
25 thing. So we will do the same thing that we do

1           for 83.13s, we will do that for 83.14s from  
2           this point forward.  
3           Hopefully this will -- it'll make the Board  
4           meetings easier for the Board to understand.  
5           You know, they can review the documentation  
6           ahead of time, look at that information and  
7           maybe make it a little easier.  
8           Another concern, and I think this concern was  
9           identified by Dr. Roessler, that -- that, you  
10          know, worry about inconsistencies,  
11          inconsistencies in how we determine  
12          feasibility. It was -- and it was discussed by  
13          Dr. Melius at the working group session as well  
14          that we -- you know, we want to make sure that,  
15          you know, as we go through this process and  
16          we're adding classes, we're evaluating numerous  
17          sites, some of these issues are going to be  
18          similar. You know, some of the issues that are  
19          associated with sites -- thorium exposure, for  
20          example -- are similar. What we need to do is  
21          we need to make sure that we are not  
22          inconsistent in our determination of  
23          feasibility. So what -- what we've done is  
24          we've discussed internally things that we can  
25          do to -- to help our evaluation team, to help

1 the Board be sure that we're not coming up with  
2 inconsistencies.

3 One of the things that we are doing is we're  
4 developing a matrix. This matrix is actually  
5 already in internal review one as -- as I  
6 speak. It's a matrix that lays out every  
7 evaluation we've completed to date. It puts  
8 out the feasibility determination for each --  
9 you know, whether we said we can or can't do  
10 dose reconstruction for internal, external, all  
11 the way through. It also lays out the HHS  
12 recommendation, how it compares to that  
13 feasibility determination and -- and it has,  
14 you know, a couple of other items. This will  
15 hopefully allow future teams that are doing  
16 evaluation to look back through this matrix and  
17 say okay, do I have a similar issue, do I have  
18 an issue that -- that's similar to something  
19 that we've looked at before and -- and then we  
20 can -- they can go back, as the evaluation  
21 team, can go back and see how that  
22 determination was made and -- and -- and make  
23 sure that we're not going to be incon-- not  
24 only inconsistent, but look at, you know,  
25 similarities and make sure that they've

1 addressed everything.

2 Another issue that actually came out of the  
3 December Board meeting -- Board meeting and was  
4 -- a good point by Dr. Lockey. Dr. Lockey  
5 asked the question about data captures, and we  
6 had -- you know, in our 83.13 evaluations we  
7 lay out all sources of information where -- all  
8 sources we went for information. We lay that  
9 out in the evaluation report. We haven't done  
10 that for the 83.14s. In the future we will  
11 because what we want to do is we want to make  
12 sure that we have looked at all of the possible  
13 sources for information and we've actually  
14 pulled that string to -- to make sure we come  
15 up with the right determination.

16 That's it.

17 **DR. ZIEMER:** Thank you, LaVon. Let me begin  
18 the questions by asking about the legal  
19 implications of not meeting the 180-day  
20 requirement. You suggested in the case of  
21 Hanford that the agency may not be able to  
22 complete that evaluation report, so --

23 **MR. RUTHERFORD:** I -- I --

24 **DR. ZIEMER:** -- we may have been told, but I  
25 don't recall, you know, who slaps whose hand or

1           what happens.

2           **MR. ELLIOTT:** The amended language of the law  
3           requires us to provide a report to Congress, so  
4           various committees at -- on the --

5           **DR. ZIEMER:** So the report could say that you  
6           have not been able to complete or --

7           **MR. ELLIOTT:** I -- I conceive this as a -- on a  
8           yearly basis we would report to Congress on how  
9           many times --

10          **DR. ZIEMER:** Oh, I see. Okay.

11          **MR. ELLIOTT:** -- we missed the 180-day mark.

12          **DR. ZIEMER:** Okay.

13          **MR. ELLIOTT:** We hopefully would be able to  
14          explain, you know, what happened in those --  
15          each individual set of circumstances, and I  
16          guess we'll take our lumps as they come then.

17          **DR. ZIEMER:** Okay. Yeah. So the law doesn't  
18          say that if -- if for some reason you can't  
19          meet the 180 days, you can get a reprieve in  
20          some way. It just says 180 -- 180 days,  
21          there's no --

22          **MR. ELLIOTT:** Says we are to strive to meet the  
23          180-day mark. It may not use that word,  
24          strive, but that's the time frame that --

25          **DR. ZIEMER:** Yeah.

1           **MR. ELLIOTT:** -- Congress is desirous of us  
2           completing our evaluations.

3           **DR. ZIEMER:** Okay. I just didn't recall if  
4           there was some kind of penalty involved --  
5           dismiss the Board or something.

6           **DR. MELIUS:** Send the contractor to jail.

7           **DR. ZIEMER:** Okay, other questions. Dr.  
8           Melius.

9           **DR. MELIUS:** Yeah, just one follow-up, LaVon,  
10          and I have a -- actually a question for the  
11          Board here. But the one -- one thing I would  
12          add is -- it's a very good report. I really  
13          appreciate the effort that NIOSH is making with  
14          -- with -- on this SEC issues and think it'll  
15          make it a lot easier 'cause there are a lot of  
16          sites that -- that we're going to have to deal  
17          with -- with -- through this process, and I  
18          think the way you're laying it out is -- it  
19          will be very helpful and hopefully really will  
20          facilitate our work.

21          The one thing I would add to it is -- is -- I  
22          think that it would be helpful -- believe I  
23          mentioned this yesterday, also -- where  
24          possible and appropriate, for you to also reach  
25          out and -- to some of the claimants or

1 potential claimants, people that worked at some  
2 of these facilities, particularly some of the -  
3 - the older facilities and larger facilities  
4 where there are multiple buildings and dif--  
5 different types of activity on site 'cause I  
6 think it's very important that we have -- also  
7 capture the right definition of the class and -  
8 - and make sure we get everybody included and -  
9 - and I think that's also very difficult at  
10 these sites 'cause how people were classified  
11 and so forth and then you're going to be going  
12 through this process of having people applying,  
13 putting down wording and having to interpret  
14 that, and the more information we could get  
15 into that process early on, I -- I -- I think  
16 the better. It'll never be perfect, given the  
17 age and how long ago a lot of this happened,  
18 but -- but I -- I think it would be -- be  
19 useful.

20 The second comment I have is actually for the  
21 Board members. I -- I -- I think we need to  
22 sort of get moving on some of the sites. LANL  
23 we don't have a workgroup yet, I don't believe.  
24 I don't -- Sandia's coming up, I don't think  
25 we've done anything with that yet. I -- I

1 don't know about NUMEC and some of the others  
2 that -- got a little bit more time on, but --  
3 but I think we really need to get set up and be  
4 ready to be able to move ahead on -- on  
5 addressing the SEC evaluations. We haven't  
6 really even started to deal with the -- the  
7 site profiles yet on -- on some of these, and I  
8 can't remember where SC&A is with some of the  
9 reviews here, but you know, some of them they  
10 have completed and we -- we just need to get to  
11 the resolution process. So I hope we could, as  
12 part of our actions today or the near future,  
13 get some of those workgroups set up.

14 **DR. ZIEMER:** In fact if you look in the front  
15 pocket of your -- your booklet, you have the  
16 big book from -- okay. I prepared a chart so  
17 that we have that information about the site  
18 profiles. This indicates in fact what SC&A has  
19 completed, and those cases where we have in  
20 fact begun and where we have essentially  
21 workgroups and a matrix underway and where we  
22 don't, with the -- and then we -- we need to in  
23 essence I think look side by side with the SEC  
24 chart here and we can in a sense prioritize  
25 which ones we need to move on.

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We have already committed to do, and it's not on -- not on the SEC list, but we have committed to establish a workgroup at this meeting for Linde. You recall at our -- our meeting -- our phone meeting last time that we made that commitment, so we need to do that yet today. And then we would look at the other sites, particular where -- where the report from SC&A is in place and -- and aging. Many of these -- a few of these go back more than six months and some are since July of -- of last year and -- and we can pick out those, but your point is well made that we -- we need to be moving both on the SEC upcoming petitions as well as on the reviews of the site profiles. And we'll need a -- certainly several more working groups right away.

Okay, good. Other comments or questions?

Yeah, Lew.

**DR. WADE:** Before we -- we leave this topic, we're very pleased this morning to -- to have in our presence Michele Jacquez-Ortiz, who's the district director for Representative Tom Udall from New Mexico. The fact that Michele

1 is here is evidence of the -- the great  
2 commitment that both the Congressman and  
3 Michele personally has to the workers of New  
4 Mexico, and she wanted to be here this morning  
5 even for the brief discussion that touched on  
6 the Los Alamos workers. So we're -- we're  
7 pleased to have you here and welcome, and if  
8 you'd like to address the Board, please.

9 **MS. JACQUEZ-ORTIZ:** Thank you so much, Lew.  
10 Dr. Ziemer and members of the Advisory Board,  
11 thank you for allowing me a quick moment to  
12 speak.

13 First I want to just dovetail a little bit on  
14 Dr. Melius's comments about clarifying that  
15 class definition. Harriet Ruiz -- as you know,  
16 she's the 83.13 claimant for Los Alamos and we  
17 sat together when Jason Broehm sent us the --  
18 the report on her SEC, and this was just a  
19 couple of days ago, but there were some  
20 questions that came up. Clearly we are very  
21 pleased and I want to just get it on the record  
22 that we're very pleased with regard to the  
23 preliminary report, and we want to thank Larry  
24 Elliott and the staff at NIOSH for all of the  
25 work that went into this and -- and what's

1           stated in here. We look forward to a meeting  
2           with the NIOSH staff to answer our questions.  
3           That meeting's coming up next week with the  
4           Congressional delegation and I'll clarify a  
5           couple of points.

6           One of them was on the class definition. We --  
7           we feel that the clarity is really important,  
8           and it looks like they tried to make it as  
9           broad as possible, so for that we are very  
10          appreciative. I just -- I had some questions  
11          on -- and I think that Jason -- excuse me, a  
12          couple members of the staff also had some  
13          questions.

14          I also -- I wasn't here yesterday, I was on a  
15          plane stuck in Chicago, but wanted to thank the  
16          Advisory Board for your support also with  
17          regard to the Los Alamos medical records issue.  
18          And we have been working very closely with the  
19          DOE and also NIOSH to make sure that all of  
20          those records are preserved for the claimants.  
21          And I understand that there was a comment maybe  
22          in the last couple of days from the Advisory  
23          Board in support of that, and on behalf of  
24          Congressman Udall, thank you very much for --  
25          for lending that support to that important

1 effort.

2 **DR. ZIEMER:** Thank you very much for those  
3 comments and for taking the time to be with us  
4 here today.

5 Okay, other comments or questions for LaVon?

6 **MR. GIBSON:** Dr. Ziemer?

7 **DR. ZIEMER:** Yes, Mike.

8 **MR. GIBSON:** I don't know if this is exactly  
9 the appropriate time, but it seems to me that  
10 it is, concerning looking into other issues and  
11 everything else.

12 I would like to, if it would be an appropriate  
13 time, make a motion.

14 **DR. ZIEMER:** Yeah, I'm -- what I'm -- what I'm  
15 wondering is if we can do that in the context  
16 of during the Board working time when we --  
17 when we look at the total list of -- of the  
18 sites. You're talking about your suggestion  
19 from last night that we have a working group  
20 that would, in some manner or another, be  
21 involved in getting worker input relating to,  
22 number one, I would say the site profiles and  
23 perhaps also as it relates to the SECs, but I  
24 think -- I think it would be appropriate if we  
25 did that during our working session when we

1 will be reviewing this list of the site  
2 profiles and which ones we haven't addressed  
3 yet and so on, if -- if you're okay with that,  
4 Mike. We'll just postpone that briefly till we  
5 get to that point in the agenda.

6 **MR. GIBSON:** Yeah, I'm okay with it. I just --  
7 I just -- you know --

8 **DR. ZIEMER:** We haven't forgotten you.

9 **MR. GIBSON:** No, I've heard -- I just heard  
10 that, you know, people are looking -- different  
11 organizations are looking at different ways to  
12 do the site profiles, the SECs and everything  
13 else, and I just -- I just thought this might  
14 be the appropriate time. But if you feel it  
15 would be later, that's fine.

16 **DR. ZIEMER:** Yeah, I think -- I think we can do  
17 it so that we have the full picture of both the  
18 site profiles and the SEC information. So at  
19 the moment I think, if -- if -- if there's no  
20 objection, we'll proceed with the other items  
21 that are on the regular schedule here.

**CONFLICT OR BIAS MANAGEMENT POLICY**  
**IMPLEMENTATION STATUS UPDATES**  
**NIOSH, MR. LARRY ELLIOTT, NIOSH/OCAS**  
**ORAU, MS. KATE KIMPAN, ORAU**

22 We have a -- we have a scheduled presentation  
23 from NIOSH and from ORAU on the conflict of --

1 of interest, and kind of an update on where  
2 they are on what they call the bias management  
3 policy. We're going to hear from Larry Elliott  
4 and then -- did -- oh, Kate has arrived. I was  
5 just asking someone earlier if Kate was going  
6 to be here and there she is.

7 So first we'll hear from Larry Elliott, and  
8 then we'll hear from Kate Kimpan from ORAU.

9 **MR. ELLIOTT:** Well, good morning again. Last  
10 day of three long days, and we hope to get you  
11 on the road and get you back to your home ports  
12 safe and sound, weather allowing and all of  
13 that.

14 I'm here to give you an update on the  
15 implementation of NIOSH's policy statement on  
16 conflict or bias, and this is a slightly  
17 different title than we had given the policy  
18 that the Board had reviewed. We -- Dr. Howard  
19 is engaged in a refinement to that policy  
20 statement that has been presented to the Board  
21 as we implement it.

22 However, the purpose of the policy as it has  
23 been put in place is to prevent individuals --  
24 I've given talking points to the Board on --  
25 I've given copies of talking points to the

1 Board. They're also available on the back  
2 table. I do not have slides. So from these  
3 talking points that you have, the purpose as  
4 stated in this policy on conflict or bias is to  
5 prevent individuals with either apparent or  
6 perceived conflicts from being the primary  
7 document owner on any key program function  
8 document. The policy lists these documents,  
9 and you should review them and make yourself  
10 aware of what is a key document versus a non-  
11 key document. There's also a purpose here in  
12 this policy to promote and provide transparency  
13 in the dose reconstruction process, and in the  
14 creation of these key program documents.  
15 Now there've been many policies over the course  
16 of the six years of the program. We started  
17 out with a -- requiring a policy, internal,  
18 where no one had a prior affiliation with a DOE  
19 site on -- on the OCAS staff or the NIOSH staff  
20 could work on a given dose reconstruction or a  
21 tool that was used for that dose  
22 reconstruction, and we've adhered to that.  
23 When we awarded a contract for technical  
24 support on dose reconstruction, the competitive  
25 process, requests for proposals, called for a

1 outline of a conflict of interest policy. And  
2 upon award, that was further developed. After  
3 the award it -- at several points in time the  
4 policy was modified, as this Board is well  
5 aware of, based upon concerns that have been  
6 raised regarding site profiles and Technical  
7 Basis Document development.

8 The first policy that was put in place under  
9 the ORAU contract, as specified by that  
10 contract, dealt only with dose  
11 reconstructionists and doing a dose  
12 reconstruction for an individual claimant and  
13 how that would be managed and controlled. And  
14 so we have -- we have matured and we have  
15 progressed beyond just that to dealing with the  
16 various tools and methods that are employed in  
17 this program.

18 One of the other major changes of the -- this  
19 current conflict or bias policy is the  
20 establishment of an office of a conflict or  
21 bias officer. This is a person not involved in  
22 the dose reconstruction program. Currently it  
23 is the chief of staff to Dr. Howard, Mr. Frank  
24 Hearl. This individual is responsible for  
25 ensuring that any key program function document

1 disseminated by NIOSH conform substantially and  
2 procedurally to all the provisions contained in  
3 the conflict or bias policy statement.  
4 There's more specifically-defined roles in this  
5 conflict or bias policy than in previous  
6 policies, and the -- the policy itself defines  
7 seven key program functions. And in Section 6  
8 of the policy it defines five program support  
9 functions, and you should make yourselves aware  
10 of those. Defining these functions in the  
11 policy provides complete understanding of what  
12 roles are performed in the construction of key  
13 program documents and where conflicts should  
14 always be avoided.  
15 Now we're in the process of implementing this  
16 policy and disclosure by every individual at  
17 NIOSH is required. I'm only speaking at this  
18 point, in my presentation, about the NIOSH  
19 actions to implement this policy. You'll hear  
20 later, in a moment, from Kate Kimpan about  
21 ORAU's efforts and what they are doing in  
22 implementing the policy. Each one of our  
23 contractors is required to implement this  
24 policy as a floor. That means that they can go  
25 -- they can be more rigid and more rugged in

1           their -- their interpretation of the policy,  
2           but they cannot go below this as a floor. So  
3           there are various ways that some of these  
4           contractors are implementing this -- this  
5           policy.

6           Our disclosures at NIOSH, for all NIOSH staff -  
7           - that includes not only the health physicists,  
8           my communications specialist in the Office of  
9           Compensation Analysis and Support, the public  
10          health advisors you see here at these meetings  
11          consulting with claimants, the IT computer  
12          specialist that we have, secretaries, special  
13          assistants, everybody has to provide a  
14          disclosure. It also includes Dr. Howard. It  
15          also includes Frank Hearl, the conflict of --  
16          or policy -- conflict or bias policy officer.  
17          It includes our legal team and what -- whoever  
18          else is associated with this pro-- this  
19          program.

20          So on our web site you will soon see disclosure  
21          forms. If an individual is conflicted at a  
22          site or -- during any period, he or she cannot  
23          perform any program function for that site, as  
24          defined in the policy. This is a -- we -- we  
25          base -- at NIOSH/OCAS we are basing and

1 interpreting the policy in a little more higher  
2 level than just the floor. We're going by site  
3 rather than by individuals solely, so you  
4 should -- if you have any questions about that  
5 in that regard, let us know. We feel that this  
6 ensures a more restrictive approach in  
7 implementing the policy.

8 As I said, all NIOSH and all OCAS employees who  
9 work in the program are required to complete a  
10 disclosure form, regardless of their job title  
11 or function. All of those disclosure forms  
12 will be soon posted on the NIOSH/OCAS web site.  
13 And if you don't know how to navigate to that,  
14 I'll provide it to you; just ask me, rather  
15 than read -- well, I guess I should read this  
16 into the record. It's -- it's located at  
17 [www.cdc.gov/niosh/ocas/default.html](http://www.cdc.gov/niosh/ocas/default.html)\*. You'll  
18 find those disclosure forms there very soon.  
19 We're -- we're pulling them together as I  
20 speak.

21 There will -- you will see in those multiple  
22 sites that are listed where conflict exists.  
23 For those sites where conflict exists, the  
24 individual is required to complete that form  
25 and to explain in some level of detail how --

1           what the conflict or bias is. There will be a  
2           one-page summary that will front this set of  
3           disclosures for an individual that will provide  
4           you as a reader a -- a straightforward  
5           understanding without having to go through each  
6           set of disclosure forms for a site. This  
7           summary statement will show where the  
8           individual -- which site the individual has a  
9           conflict or bias.

10          We are doing this at NIOSH/OCAS. It is not  
11          required of the contractors. They will  
12          implement this as they see best for their  
13          situation. We are not allowed to place  
14          contractor disclosure forms on our web site.  
15          We will have a link on our web site that will  
16          take you to our contractor's web site so that  
17          you can find them there -- find their  
18          disclosures there.

19          Sites where there's no conflict of interest for  
20          an individual in NIOSH, but for which  
21          additional explanation is required, will be  
22          listed separately on the multiple site  
23          disclosure forms. In other words, in my in--  
24          in my case, when I went through this disclosure  
25          process I found myself not to be conflicted at

1 any site. However, I supervise individuals who  
2 are. I am supervised by an individual who  
3 could be. So I provide an explanation at the  
4 end of this document, of my disclosure,  
5 explaining all of that, that I supervise  
6 individuals who have a potential for a conflict  
7 or bias because of a prior affiliation at a  
8 site. Every action or decision that I take on  
9 that -- on be-- in regards to that individual  
10 set of circumstances is reviewed by my  
11 supervisor and by the COB, the conflict or bias  
12 officer, and at Dr. Howard's choice, perhaps  
13 others. So you may find that kind of  
14 explanation at the end of each individual site  
15 disclosure form. Make sure you go through all  
16 of that to see how people have responded.  
17 And that's the end of my talking points. We  
18 are proceeding as -- as quickly as we can.  
19 This is -- and we want to make sure we put this  
20 up right the first time, and so I would ask you  
21 to look and you'll -- if you're on our  
22 distribution list, you'll -- as the Board is,  
23 you'll have a notice coming very shortly that  
24 these are posted on the web site.  
25 **DR. ZIEMER:** Okay, while -- while you're still

1 at the podium, Larry, let's take a moment and  
2 see if there's any questions from the Board on  
3 this update and the -- the new nuances for  
4 conflict of interest and the COB officer.  
5 Any comments or questions?

6 (No responses)

7 Okay, then let us proceed. Kate Kimpan now  
8 will give us the update with respect to ORAU.  
9 Good morning, Kate.

10 **MS. KIMPAN:** Good morning, Dr. Ziemer, members  
11 of the Board -- shorter than Larry -- and  
12 others. It's a pleasure to be here. I've been  
13 the last couple of days listening by phone and  
14 it just doesn't do justice, so it's a pleasure  
15 to see you all in person.

16 You heard Larry describe what NIOSH has been  
17 doing, what's occurred to the policy, with the  
18 policy, and I wanted to update you on some  
19 things I've talked about with you before, and  
20 some things that I haven't yet spoken with you  
21 about.

22 As NIOSH has worked to finalize this policy in  
23 recent months, the ORAU team has been managing  
24 the project, as you all have been informed by  
25 me at prior meetings. We've been managing the

1 project so that no dose reconstructions or  
2 other key program functions are performed or  
3 developed by individuals with inappropriate  
4 conflicts of interest, as defined by the NIOSH  
5 policy.

6 You recall when these discussions were just  
7 emerging a long while ago in early 2006, I  
8 immediately replaced -- we as a team replaced  
9 any document owner who, under the policy that  
10 NIOSH had released at that point, would have  
11 been conflicted at the time the document was  
12 prepared or contributed to.

13 Now let me explain for those of you that  
14 haven't been to one of these before, it's an  
15 unusual way to proceed. Many, many, many  
16 documents were written before the conflict of  
17 interest policy that was on the books had  
18 specific requirements like those right now.  
19 Since the beginning of this program the ORAU  
20 team has endeavored to assure, and we believe  
21 we have accomplished, no dose reconstruction or  
22 peer review of a dose reconstruction has ever  
23 been performed by a conflicted individual on  
24 our team. So I want folks to be clear since  
25 we're four and a half years into this project

1            talking about a COB policy, COI policy. Since  
2            day one the ORAU team had a system,  
3            computerized system to assure that a dose  
4            reconstructor couldn't be assigned to a dose  
5            reconstruction where there was a conflict.  
6            And I just want clarity for folks listening  
7            because it's so important. We've performed  
8            tens of thousands of these dose  
9            reconstructions. There is a way for a worker  
10           to say I don't want Kate Kimpan working on my  
11           claim, and I wouldn't work on it. So there's a  
12           way, irrespective of actual bias or conflict,  
13           for a worker to say -- a claimant to say I  
14           don't want that person touching my work. And  
15           we've abided by that in the very rare instances  
16           it occurred, but I just wanted to -- before we  
17           talk about this 'cause it's mostly about the  
18           documents rather than the DRs. I wanted to  
19           make a slight distinction.

20           What we're going to be doing with our documents  
21           and what we began implementing about a year ago  
22           was that we're going to apply the same conflict  
23           of interest at the time policy to all the  
24           documents that we develop. And this isn't just  
25           a going-forward exercise. Our team, with -- in

1 close work with NIOSH, has submitted to them  
2 hundreds of documents that have been approved  
3 for use in this program. The documents are  
4 rigorously reviewed. And what we're doing now,  
5 which is quite unusual for those of you with  
6 legal backgrounds or government backgrounds, is  
7 we're going to take a new policy -- the one  
8 that isn't quite yet in force yet -- as soon as  
9 it's finalized we're going to look through the  
10 lens of that policy back at work that we did  
11 years before when the policy was not in force.  
12 That's on purpose because of the important  
13 nature of assuring that the scientific  
14 findings, conclusions and contributions are  
15 appropriate, are scientifically sound and are  
16 free of the influence that a paper conflict or  
17 bias concern might elicit.  
18 Since 19-- early 2006, all document owners who,  
19 under the definition of the policy that NIOSH  
20 has had in force, had -- any of those that have  
21 had a conflict of interest under the lens of  
22 this policy have been replaced with a not-  
23 conflicted document owner. In some ways the  
24 conflicted individuals -- and you've heard some  
25 of these names bandied about, sometimes

1           accurately, sometimes not -- sometimes those  
2           individuals have remained involved in  
3           appropriate, non-key roles as subject expert or  
4           site expert.

5           For those of you that have already fallen  
6           asleep, sort of in the weeds of the lengthy  
7           policy, there are site experts, there are  
8           subject experts, there are document owners.  
9           The document owner is ultimately responsible  
10          for assuring that every conclusion in that  
11          document rises to the proper scientific,  
12          defensible level that's required by the  
13          outstanding science that this program has been  
14          using. We're going to assure that the owner is  
15          assuring that all those facts are well used,  
16          well cited, and in the right place.

17          We've developed and are now finalizing -- we're  
18          awaiting the revision to the NIOSH policy to be  
19          signed into effectiveness so that we aren't  
20          taking actions that -- lest there be another  
21          change, we've developed and are now finalizing  
22          procedures to implement the NIOSH COB policy.  
23          Do reduce our burden associated with paperwork  
24          -- we have many employees -- we've developed a  
25          system where employees will fill out their

1 disclosure forms on line through a password-  
2 protected system, and a PDF version of their  
3 disclosure form will be posted on our web site.  
4 Once the revision to the policy, which is  
5 currently in process and we -- I believe,  
6 Larry, we expect this to be signed into policy  
7 soon -- we don't know. As soon as that policy  
8 is signed with this revision that's underway  
9 right now, we'll be able to have all ORAU team  
10 forms completed within one week of the  
11 effective date. Okay? We have programmed --  
12 our computer programmers have been working on  
13 this, have been changing it as the policy has  
14 changed and morphed. This is a significant  
15 effort but it's an important effort.  
16 I want you to know that we've done everything  
17 we can -- that's appropriate, in terms of  
18 taking action, spending hard-earned taxpayer  
19 dollars -- we've done everything we believe we  
20 can do appropriately until the policy is in  
21 effect. So we're ready to go. Assuming there  
22 are no more changes to the -- the basic queries  
23 and questions on the policy, we're ready to go.  
24 We, the ORAU team, established -- via analyzing  
25 the NIOSH policy in earlier versions -- a more

1 restrictive method of assuring our workers and  
2 contributors were free of conflict or bias than  
3 was initially required. You heard Larry refer  
4 to it. We initially, and have been all along,  
5 restricting individuals by site. If you have a  
6 conflict at a site, you don't work on that site  
7 and you're taken off for our DRs. There's no  
8 discussion of what you did at the site, how you  
9 did it, if you've got a conflict. So we have  
10 been using individual site-based throughout --  
11 I think this policy certainly would -- would  
12 encourage that or allow that. You can see  
13 NIOSH's new policy is drifting toward a site-  
14 based. It's more restrictive, but it is  
15 cleaner for us and it is easier to manage. We  
16 have a computer system in place that actually  
17 prevents assignment of someone with a conflict,  
18 and our new system will feed into that same  
19 system. It's coordinated to work with our dose  
20 reconstruction and other key function  
21 assignments. So if somebody -- one of my  
22 managers wanted to assign a dose reconstruction  
23 or a document review to a conflicted  
24 individual, we have an elaborate computer and  
25 document control system, the system would say

1 no, you must not do that. It's a -- you may  
2 not do that, not must not.  
3 It's another reason for us to use a computer-  
4 based system rather than paper. If there's  
5 paper, that's all well and good, but that's  
6 showing what an individual wrote on the paper,  
7 you post the paper. There's nothing wrong with  
8 that. At 160 dose reconstructions a week and  
9 nearly 400 employees, we can't be looking at a  
10 piece of paper every time we go to do our work,  
11 so we need our computer system talking to our  
12 conflict of interest or bias system to help us  
13 do our work well, prevent these concerns and  
14 assure you, the Board, the government and the  
15 public, that we're doing this the right way.  
16 We've talked at other times through the months  
17 about annotation and attribution, and I know  
18 I've spoken to this Board, and it was an  
19 emergent topic early on in this. A year ago  
20 when I assigned new owners to areas where  
21 document owners might would have been  
22 conflicted under a new emergent policy, we  
23 looked at what we might do to assure the  
24 scientific community, to assure this Board and  
25 -- and the interested members, to assure the

1 public, the claimants, that we're handling this  
2 the right way. We have, and it is now in the  
3 policy. We talked about it before it was, what  
4 we as the ORAU team were going to do to assure  
5 the fine scientific quality of our documents.  
6 It's now in the policy and we're very pleased  
7 to see that. We've been working closely with  
8 OCAS to assure we're going to implement this  
9 the way that they'd like to see to assure  
10 credibility for all of us on this program for  
11 what we've been referring to, and now it's an  
12 actual in-the-policy word, annotation and  
13 attribution.

14 Our documents are written by scientists who  
15 write for professional journals as part of the  
16 rest of their livings, and as such they use  
17 proper citations, footnotes, references, et  
18 cetera. These are all done to a scientific,  
19 peer-review level. That's how the writing that  
20 our team has done and the OCAS team has done  
21 has -- has been emerging. You'll see that in  
22 our system documents go through many, many,  
23 many reviews. And if you've ever met a group  
24 of health physicists, you couldn't get them to  
25 agree it's cold today, I suspect. Some people

1           would say it's warmer than Minnesota. So we  
2           have many, many, many reviews of different  
3           health physicists on our team. Then it goes  
4           over to OCAS where an additional group of  
5           professionals and health physicists and other  
6           experts review it. For many of our documents  
7           we've had SC&A, yet another group of health  
8           physicists with opinions about how these were  
9           developed, review and -- and challenge and --  
10          and work with us about our conclusions and our  
11          findings.

12          I'm going to say, before I tell you what we're  
13          going to do for annotation and attribution  
14          again, we believe that these documents are  
15          absolutely high scientific quality that are  
16          honoring the contributions of these workers,  
17          because these -- these documents are used to  
18          process claims and that's why we're all here is  
19          to take care of workers and their families.  
20          That's the intent. That's what the program  
21          does, and we believe that's what the documents  
22          do. We believe they're thorough. We believe  
23          they're professional, and we believe they're  
24          free of conflict or bias based on the  
25          experiences of any individual contributor.

1 In terms of assuring that that is -- thank you.  
2 (Unintelligible) stop long enough to drink.  
3 Sorry, Ray. I should always start off with  
4 sorry, Ray.

5 In order to assure that we're doing this a way  
6 that has not only satisfaction for scientists,  
7 for the government and for the Board, but also  
8 to make sure that the public, that the  
9 claimants, that everybody who's involved in  
10 this program sees the amount of sunshine on  
11 these documents, we believe that we are going  
12 to make certain that folks can see where every  
13 contribution was from. And we're going to make  
14 even more certain when there's a potential  
15 conflict or bias among the contributors. So  
16 we're going to be doing a retrospective  
17 annotation and attribution. We're going to do  
18 that on every document where the -- the  
19 existing policy would have created a conflict  
20 for an owner or contributor to that document.  
21 And they're going to be th-- and we're going to  
22 prioritize this retrospective work. These are  
23 documents that are already out there, in -- in  
24 some cases already in force. We're  
25 prioritizing this based on the type of conflict

1           that was either found or alleged.  
2           And I want to tell you a little bit in detail  
3           about the three types of annotation and  
4           attribution we're going to do under this  
5           policy. This is an ORAU team construct. The  
6           policy does not call this out at all. We're  
7           acting, we believe, in an abundance of caution,  
8           again, to assure the credibility of these  
9           documents and this group of individuals.  
10          Retrospective annotation and attribution is  
11          first being conducted on six sites, and they're  
12          slightly different sites. The first situation  
13          is where there was actually a conflicted  
14          document owner. That occurred at only two  
15          places. You've heard a lot of things said  
16          about a lot of people in recent weeks and  
17          months. There are two sites, the Idaho  
18          National Laboratory and Pantex Texas site are  
19          the only sites where the ORAU team document  
20          owner had a conflict. New owners were  
21          immediately assigned a year ago, and these  
22          documents are going to receive the most  
23          thorough and complete level of annotation and  
24          attribution, which is appropriate. The person  
25          who was the decision authority for those

1 documents had an employment status at one point  
2 in life which, under this new policy, would  
3 conflict them or -- or facilitate the  
4 possibility of a bias. So we're going to make  
5 sure that every scientific conclusion, every  
6 finding, every premise, every table and every  
7 exhibit in that document will be identified,  
8 referenced and fully explained.

9 As promised, we gave to OCAS last year -- I can  
10 say that now, being January -- a fully  
11 annotated and attributed TBD for Rocky Flats,  
12 which is actually in the next category, never  
13 had a conflicted document owner, but it  
14 received a great deal of attention and it was  
15 the right thing to do. Our documentation in  
16 that -- our annotation and attribution in that  
17 document we believe was very thorough. If and  
18 when OCAS and NIOSH see fit, they -- they will  
19 share that with the Board or ultimately that  
20 document will become public and it will show  
21 this level of annotation and attribution.  
22 We've shown it to a lot of people, including  
23 the COB officer and the attorneys and the  
24 government and we've gotten no feedback to  
25 suggest that this annotation/attribution is

1 anything less than totally thorough.  
2 For places where the document owner was never  
3 conflicted, but we had a conflicted site expert  
4 who wrote or substantially authored part of the  
5 document in a way that would now be  
6 inconsistent with the NIOSH policy -- okay, no  
7 conflicted document owner, so there was an  
8 arbiter that owned the document, but one of the  
9 contributors, somebody writing important,  
10 substantive scientific portions of the document  
11 has a conflict under what we believe will be  
12 the NIOSH policy. Those two sites are Rocky  
13 Flats and Hanford. This annotation and  
14 attribution is completed for Rocky. It's in  
15 process for Hanford.  
16 Again, I want to be very clear. On those  
17 documents where, although there was never a  
18 conflicted owner, there was a conflicted  
19 contributor, we're going to again make sure  
20 that every contribution by the individual with  
21 a conflict is called out, clearly identified,  
22 clearly sourced and clearly explained.  
23 There's another situation where -- at Los  
24 Alamos and Paducah where there was not a  
25 conflicted owner or a conflicted expert

1 contributing in an inappropriate way, but it  
2 has become part of the vernacular. Stuff has  
3 been alleged at Boards and there's been  
4 discussion. There's been discomfort from  
5 members of -- of -- well, public is strong.  
6 There's been discussion from -- from different  
7 folks about whether or not people's  
8 contributions was appropriate. The actual  
9 analysis for both Los Alamos and Paducah was  
10 that nothing inappropriate occurred in terms of  
11 who contributed. But because these have  
12 received a great deal of attention, a great  
13 deal of critical attention, for those two sites  
14 as well we're going to apply this level of  
15 annotation and attribution. Again, we're very  
16 proud of this work. We're very proud of our  
17 conclusions and our contributors.  
18 We believe they've been well vetted, well  
19 justified and we're just going to make certain  
20 that you all know where that information is  
21 from so everyone has the same comfort level,  
22 not only with the findings our team has ended  
23 up with but as important to everyone,  
24 especially the public, we want to make certain  
25 you're comfortable with our process. It isn't

1           just the answer that comes out of all of this  
2 work. But I listened to the -- the discussions  
3 last night and the concerns that people have as  
4 they read these reports. It's a very, very  
5 complex program, and anything we can do in the  
6 service of these workers and this program to  
7 assure that people know how we've made our  
8 decisions and that those decisions have  
9 credibility, credibility with the folks whose  
10 lives they're affecting -- and with the Board  
11 and government -- is very, very important to  
12 us.

13           For the six sites mentioned above -- those are  
14 Idaho National Lab, Pantex, Rocky Flats,  
15 Hanford, Los Alamos and Paducah Gaseous  
16 Diffusion Plants -- the current document owner,  
17 the newly non-conflicted owner, will conduct an  
18 additional technical review of these documents.  
19 Anyplace where there were questions raised,  
20 legitimate questions raised, one of the things  
21 we've committed to do -- which is not required  
22 by the policy, but it's the right way to handle  
23 this -- is that our non-conflicted document  
24 owner, in concert with other experts on our  
25 team and experts within the government, will

1           conduct a technical review of every finding in  
2           that document to assure they're right, they're  
3           satisfactory and the document owner is  
4           comfortable with their use.  When that's  
5           completed, we again subject these documents,  
6           every one of them, to a rigorous review by our  
7           colleagues in the government, who ultimately  
8           actually approve these documents.  We merely  
9           provide work to them.

10          We're very pleased to be moving forward on  
11          these important aspects, and we're very pleased  
12          that it looks as though the policy will be  
13          finalized.  For those of you that -- that surf  
14          our web site all the time, we've left it up,  
15          although it is an artifact of a policy which is  
16          no longer in effect, and it includes workers  
17          who no longer work for me.  So we're very  
18          anxious to get the new policy signed so that we  
19          can make our web site proper and right, with  
20          the people we currently have working on the  
21          team.

22          Obviously there's a great deal of historical  
23          information on the current web site and I want  
24          to assure you, as we revise this, as the  
25          policy's finalized and we revise our exhibits

1           on that web site, we will maintain -- the ORAU  
2           team will maintain, for your availability and  
3           others, all the information that we take down.  
4           The information that's up there was a proper  
5           snapshot at a certain time. COB, these forms,  
6           are a snapshot of who works for you at the  
7           time. With this new policy, we'll require new  
8           forms. The old ones will be obsolete.  
9           So the -- the web site will in coming weeks be  
10          changed and you'll see this new policy, once  
11          it's effective, reflected on the web site.  
12          Larry and others will be made aware when we're  
13          going to change that so you, the Board, will  
14          know. This isn't something that should be a  
15          surprise. Once the new policy's in effect,  
16          about a week after it's in effect, we have all  
17          of our current employees' information up and  
18          ready to go, we'll replace the current web site  
19          with the current, proper information under the  
20          policy. And I just wanted folks to know.  
21          If there's anybody who has interest in making  
22          sure you preserve what's on it now, feel free  
23          to print away or, as I said, we'll be retaining  
24          that in our computer memory. We will not get  
25          rid of it. It will no longer be available to

1 the public. We certainly have before provided  
2 elements of -- of things that have been taken  
3 down for the Board and to others. We have no  
4 problem doing that. It's just not the right  
5 thing to have information up there that's four  
6 years old, obsolete and an old policy. So I  
7 wanted folks to know -- we're not trying to  
8 hide anything or take anything away. We're  
9 just going to put the current, correct  
10 information up as soon as that's available.  
11 And I can't give you an exact time frame on how  
12 this is going, but there are six documents on  
13 what we consider our tier one, must do right  
14 now. Paducah's -- I'm sorry, Rocky is  
15 completely done. Three of the others are in  
16 process, and there are two others that we have  
17 planned and are beginning to do. Again, this,  
18 like so many other things, is very important  
19 work, prioritized among a lot of very important  
20 work, so what we've been doing is as much prep  
21 work as we can until such time as the policy is  
22 effective. As soon as the policy is effective,  
23 there'll be an internal flurry of activity to  
24 get us dress right dress in compliance with the  
25 requirements, including posting, and we should

1           be then pleased to stand for any questions in  
2           the future and now.

3           **DR. ZIEMER:** Thank you -- thank you, Kate -- or  
4           -- yeah, Kate, for that update. I'd like to  
5           pose a question that perhaps goes to the issue  
6           of bias. There are clearly concerns that folks  
7           have that there's a sort of an inherent bias in  
8           this process that relates to the fact that the  
9           documents, with all the protections that you've  
10          described, nonetheless are pretty much authored  
11          by scientists, health physicists and management  
12          types of folks who may see things, or not see  
13          things even, in a different way than the folks  
14          out there doing the work.

15          **MS. KIMPAN:** Uh-huh.

16          **DR. ZIEMER:** And in -- in the abstract, at  
17          least, one could argue that -- that a kind of  
18          bias could in fact be present because of that.  
19          How do we and how does ORAU assure that those  
20          concerns that -- we might call them worker  
21          concerns -- are not only made visible but  
22          impact on the final product? I think for the  
23          most part, and you talked about the authors,  
24          the scientists who are used to writing papers  
25          and so on, and we recognize that many of the

1 workers are not normally in that capacity for -  
2 - that's not what they do normally, and maybe  
3 we have overlooked how they might contribute to  
4 the product. So can you give us a feel for  
5 what efforts ORAU uses to get that input into  
6 the document, how do we know it's there, how  
7 does it show up, how does it change what I  
8 think is going on as a health physicist versus  
9 the worker who says well, you're only here now  
10 and then; here's what really happens.

11 **MS. KIMPAN:** Right. Sure. Let me start with  
12 sort of what -- part of what I've learned from  
13 my team in -- in the time that I've been here  
14 in this part of the project.  
15 A lot of the folks on our team were folks that  
16 were workers. Some of them were workers in the  
17 rad protection program. The story I get from  
18 them is it was their job to assure that workers  
19 voices were heard and that management heard the  
20 concerns of workers. So I don't know that it's  
21 as easy for me as for some to distinguish what  
22 somebody's bias might be. I'm not -- I -- you  
23 can say but I'm not accepting that everybody  
24 that worked for a contractor at one of these  
25 facilities was anti-worker. My team certainly

1 doesn't talk that way to me about what their  
2 contributions were.

3 We have among our team some very large-brained,  
4 well-degreed, big scientists. And those folks  
5 were, without question, some of them at the  
6 helm of the radiation protection programs and I  
7 think in the position that you described, Dr.  
8 Ziemer. But it isn't as -- as simple for me to  
9 say that the folks we have contributing to  
10 documents were all in some DOE ivory tower and  
11 not in touch with the workers. These were the  
12 guys that suited up with the line workers and  
13 walked up and down the lines in the same  
14 protection equipment, making sure that workers'  
15 concerns were heard, as I understand -- and I'm  
16 sure I'm going to get a whole lot of comment  
17 based on that.

18 That said, we endeavor -- and it could be  
19 improved upon, there's no question. We  
20 endeavor to assure -- these documents take a  
21 long time to develop. They take a long time to  
22 gather the data. You'll recall the first  
23 couple of years of the program some would say  
24 too long. And part of what takes so long is --  
25 if we could just sit in Cincinnati, or

1           electronically wherever we are, and rely on one  
2           expert, I'd have finished these documents a  
3           long time ago. So there is a great deal of  
4           input that is gathered. There's a great deal  
5           of input that is sought through our document  
6           development program. We work closely with -- I  
7           see Libby came in -- with the Department of  
8           Energy to make sure we're getting to the right  
9           people. Our teams go in, they look for the  
10          data, they start interviewing. If someone  
11          comes forward that has contributions, I believe  
12          we accept that information. We validate and  
13          verify it.

14          There has been through this project a thing  
15          called the worker outreach portion of the --  
16          the ORAU team. The original intent of that  
17          shop was much more limited than it has been in  
18          recent days and weeks and months. The original  
19          intent was to go to a facility in advance of  
20          one of these documents being completed and have  
21          a public meeting where workers were asked to  
22          come in please and see what they thought of  
23          this document. So the process of the ORAU  
24          team, through the development of all these  
25          documents, was to conduct one of these worker

1           outreach meetings, and we did so. And in  
2           conducting those, we worked closely through --  
3           folks that had organized labor, through  
4           organized labor at the facility. If they  
5           didn't have organized labor, through whatever  
6           group of -- of people identified themselves as  
7           advocates, like Dr. McKeel and others in places  
8           where there wasn't organized labor. And in  
9           those places, with due respect, it's not clear  
10          what the voice of a worker was.  
11          So we've endeavored to get to the workers,  
12          whoever they are, the retirees -- as you know,  
13          oftentimes the family members don't know great  
14          detail. You've heard the testimony as recently  
15          as last night, folks worked for years in these  
16          facilities and were unable to share with their  
17          loved ones what they were subjected to. So  
18          although we certainly value that input, it's  
19          the workers, the former workers, the folks who  
20          had boots on the ground, that we've endeavored  
21          to hear the voice of.  
22          So what we've done is, I believe in both formal  
23          and informal ways, tried to assure that those  
24          voices were heard as we developed those  
25          documents. And I apologize, I don't have the

1 list in front of me now, but there is a lengthy  
2 list -- and folks on my team do have it -- of  
3 places where input at a meeting actually  
4 affected immediately the Technical Basis  
5 Document under development. I don't think we  
6 did a particularly good job -- the only time  
7 you're going to hear me say this this way. I  
8 don't think we did a great job in the first  
9 couple of years of letting folks know we had  
10 heard them. We did do a great job of  
11 listening.  
12 We had -- at these meetings that were conducted  
13 for every document prior to release, we had our  
14 document owner and we had OCAS on the ground in  
15 those meetings. And if a question was raised  
16 that had a substantive effect on the document,  
17 it was immediately put into the ORAU  
18 deliberations about the document information,  
19 immediately explained and discussed with OCAS  
20 what the effect of that change should be, and  
21 we actually have identified and know where  
22 those changes have occurred. We didn't  
23 communicate back to those communities  
24 particularly well or promptly. We didn't go  
25 back and do a second meeting. At the time

1           there was a flurry of activity, trying to get  
2           to the next document.  But there've been very  
3           great -- in magnitude terms -- effects from  
4           these meetings.

5           One of the things you hear about, and I have  
6           heard it as recently as during this Board  
7           meeting, and I will speak to it in a -- in a  
8           way that will not be satisfactory to some.  
9           Oftentimes what we hear from individuals is  
10          something that was an individual experience.  
11          That's a very, very important thing for that  
12          individual's dose reconstruction.  But there  
13          are many, many, many stories that an individual  
14          might tell about what happened to them that  
15          absolutely do not affect -- affect the TBD.  
16          And there's a little bit of a disconnect in  
17          some of the testimony I've heard at different  
18          times.  Because an individual worker said this  
19          happened to me and I don't see it in the TBD,  
20          that has nothing to do with the quality of the  
21          TBD.

22          The TBD is one document among many that are  
23          used.  We have health physicists that are well  
24          trained, well trained on this program, and  
25          there are many, many, many aspects of what's

1           called professional judgment. And that is, the  
2           health physicist who is the dose reconstructor  
3           must review all the documentation with a  
4           particular case, including the interview  
5           conducted with the worker. We conduct very  
6           thorough interviews with workers. If somebody  
7           wants to talk longer than they have,  
8           notwithstanding some of what I heard, we  
9           listen. We continue to listen. We continue to  
10          take notes on everything the worker says. The  
11          dose reconstructor then, in concert with the  
12          interview from the worker, the Technical Basis  
13          Document, and a number of other technical tools  
14          to determine what a worker's dose might have  
15          been. They see evidence in my interview I  
16          worked in a glovebox. It sends them down one  
17          direction for determining my base -- my -- my  
18          dose differently than if I didn't. They --  
19          they listen to all of that on the individual  
20          workers.

21          And so these individual testimonials that  
22          people give at meetings is extremely important  
23          to their individual case. But you can well  
24          imagine it isn't necessarily something that  
25          would change how the overall process at a

1 gaseous diffusion plant operated. When a  
2 worker says on this date a hole in my glove  
3 occurred and the following happened to me,  
4 that's very important information for that  
5 individual, extremely important information.  
6 It can make the difference between a claim  
7 being compensable or not. That's considered in  
8 their dose reconstruction. And keep in mind  
9 that if -- if -- what the worker's recalling  
10 occurred that way may very well show up in an  
11 incident report. I know that if you get 40, 50  
12 years ago, there's some concerns about whether  
13 the incidence reports were made and -- but for  
14 many workers who worked in recent years, when  
15 they say a thing happened and they know the  
16 date, they know the location, they know the  
17 time, we have additional evidence to say  
18 absolutely true.

19 The guys who were in the Rocky fire know where  
20 they were. They know what the date was.  
21 That's very, very important information for the  
22 individual dose reconstruction. Every bit of  
23 that information is considered in the dose  
24 reconstruction. We've got Dr. Maher, the head  
25 of our dose reconstruction team, here. If I'm

1 an individual saying what happened to me, his  
2 team will consider that for my DR. It is  
3 unlikely -- unless Dr. Maher, Mr. Siebert and  
4 his team says so, it's unlikely that that  
5 individual's information is going to affect the  
6 TBD. And so there's been a bit of a disconnect  
7 that is sort of very important to us in terms  
8 of how we feel about the process.

9 **DR. ZIEMER:** Kate, also let me ask you this and  
10 then Larry can speak. In those cases where  
11 your input in fact somehow showed up in the TBD  
12 --

13 **MS. KIMPAN:** Yes.

14 **DR. ZIEMER:** -- do you annotate that as well,  
15 or --

16 **MS. KIMPAN:** You know, we haven't captured --

17 **DR. ZIEMER:** -- have you thought about that?

18 **MS. KIMPAN:** -- it that way, Dr. Ziemer,  
19 although I'm -- we're --

20 **DR. ZIEMER:** In other words, the --

21 **MS. KIMPAN:** -- gathering that information now  
22 --

23 **DR. ZIEMER:** -- here's this and the source is -  
24 - you know.

25 **MS. KIMPAN:** You know what we've been doing is

1 we've been gathering it in terms of making  
2 certain we're communicating back with that  
3 group, often an organized labor group. And one  
4 of the things that my worker outreach team has  
5 been working on is we've got this WISPR\*  
6 database that you folks are -- are going to  
7 have access to that -- that shows all these  
8 comments made at these public meetings. And  
9 one of the categories in there is what do we do  
10 in response, so we capture that information and  
11 have it.

12 I can absolutely at the next Board meeting  
13 bring an exhibit of places where this has  
14 occurred, if that would be of interest to the  
15 Board. But there are many, many places and  
16 specific numbers, functions, findings in these  
17 documents that were immediately and  
18 substantially affected by input, as you say,  
19 sort of from the rank and file --

20 **DR. ZIEMER:** Yeah.

21 **MS. KIMPAN:** -- from the folks who show up at  
22 these meetings, at our behest, to help us make  
23 a better document. That's the entire purpose  
24 of these meetings, by the way, was to make  
25 certain that we were hearing that voice. We

1           understand, as a government, that we listen to  
2           voices that worked with and for DOE. We're  
3           aware of that. We want as much of all voices  
4           about what went on in these facilities as we  
5           can get --

6           **DR. ZIEMER:** Yeah.

7           **MS. KIMPAN:** -- so we're very anxious for  
8           those. We -- we do look for them in a lot of  
9           ways, but --

10          **DR. ZIEMER:** Yeah.

11          **MS. KIMPAN:** -- we can absolutely identify the  
12          changes.

13          **DR. ZIEMER:** One of the -- the reason I asked  
14          this question, some of us chatting last evening  
15          -- not a quorum, by the way, but a couple of us  
16          chatting about Mike Gibson's concern about  
17          worker input into the -- the process, is the  
18          question of how do we know if -- if the Board  
19          went back and looked, how would we be able to  
20          tell that it made a difference, you know --

21          **MS. KIMPAN:** I guess the way you'd be able to -  
22          - yeah.

23          **DR. ZIEMER:** -- and so that's why I asked the  
24          annotation --

25          **MS. KIMPAN:** Sure.

1           **DR. ZIEMER:** -- question, is there --

2           **MS. KIMPAN:** We -- we can find --

3           **DR. ZIEMER:** -- some way --

4           **MS. KIMPAN:** Yeah.

5           **DR. ZIEMER:** -- that someone could audit that  
6           and say ah, here's a case where yes, something  
7           was changed or -- or was added or whatever it  
8           may be that reflected some input that's not  
9           just from --

10          **MS. KIMPAN:** To be honest, I can do that --

11          **DR. ZIEMER:** I'm not asking you to do it. I'm  
12          asking if it --

13          **MS. KIMPAN:** It -- my -- my gut is --

14          **DR. ZIEMER:** -- if it's doable.

15          **MS. KIMPAN:** -- in the way you're asking, it  
16          will not show up in annotation and attribution  
17          --

18          **DR. ZIEMER:** Right now it doesn't show up.

19          **MS. KIMPAN:** -- but it will show up on the  
20          WISPR database, the -- a lot of times that  
21          input was before --

22          **DR. ZIEMER:** Yeah.

23          **MS. KIMPAN:** -- a draft was completed and --  
24          and of course the annotation and attribution,  
25          even if it were a worker that brought it to our

1 attention, would not likely be the source --  
2 the source wouldn't be that worker. I -- I'm  
3 not accepting from my scientists Fred said so,  
4 so --

5 **DR. ZIEMER:** Yeah, yeah.

6 **MS. KIMPAN:** -- even if the worker identified  
7 something we didn't know, a document we didn't  
8 know, records we didn't know, that's something  
9 we could best capture for you out of this WISPR  
10 database. And the changes that were made -- a  
11 lot of times, to the annotation and attribution  
12 viewers of the document -- the -- the  
13 consumers, these changes would have occurred  
14 substantially before, and the changes would  
15 have already been made and vetted through our  
16 team and through OCAS. But I can get that  
17 answer for you.

18 **DR. ZIEMER:** Yeah, thank you. Larry, uh-huh.

19 **MR. ELLIOTT:** Well, I was just going to remark  
20 upon what you just asked about. As we're  
21 looking at Rocky Flats and yes, the -- that  
22 serves as a model of attribution and  
23 annotation, has been delivered by Kate to us.  
24 General Counsel's looked at it, found it to be  
25 over the top even in that regard. But -- but

1           what I want to do today is set a very clear  
2           expectation that I don't believe has gotten  
3           through to everybody yet. Let me just phrase  
4           it that way. I, too, am displeased, not happy  
5           with how worker outreach, worker input has been  
6           garnered. I think we could have done a better  
7           job and I intend and have -- I'm scheduling  
8           meetings with organized labor representatives  
9           to talk about how to go about doing worker  
10          outreach better than we have in the past.  
11          Here's what I want to set in place as the  
12          expectation. We consider at NIOSH all workers  
13          site experts. And in some ways, subject  
14          experts. And if we don't start from that  
15          premise, we're missing the bet. We're missing  
16          the big component here. At the early days when  
17          we implemented -- started drafting our -- our  
18          rules and our regulations for this program, we  
19          put in place this interview process. That was  
20          one step to get a site expert's commentary, a  
21          person who was a chemical operator who worked  
22          on the floor, who was a millwright, who was --  
23          whatever their job title was, to me, they are a  
24          site expert. And that's where we need to start  
25          from. I want the worker's voice heard.

1           It's not carried through yet. I think a  
2           worker's voice should be annotated and  
3           attributed. If a person in their interview  
4           says, like we heard last night from the  
5           gentleman I talked to afterward, if he wore  
6           gloves and if the gloves were contaminated and  
7           he, unbeknownst, touched his -- his forehead,  
8           scratched his jaw, you know, rubbed his neck,  
9           picked his ear, whatever, what kind of  
10          contamination, external dose, did he acquire  
11          that way? Dose reconstructors should pick that  
12          up, attribute that in the dose reconstruction  
13          report, and explain what they've done to  
14          account for that kind of dose. Have we done  
15          that in all regards? No. Have we done it in  
16          some regards? Yes. Can we do a better job?  
17          Absolutely.

18          So my expectation and what I'm looking for and  
19          asking my people to make sure in Rocky Flats as  
20          a model, is there anything that changed in that  
21          model based upon worker input, worker outreach,  
22          that we need to take up. We don't have to put  
23          the person's name in there, but we can say this  
24          has come from a site expert worker. Or we can  
25          say this came from an actual millwright who --

1           who told us this -- this information, and we  
2           should be doing that.

3           So that's what we're looking at right now.

4           That's the expectation I'm setting before all  
5           the contractors. And Kate, I want to -- I want  
6           to say that -- just so everybody's clear here -  
7           - there is a policy in place. The floor of the  
8           policy is there. Kate is working with that  
9           understanding and that intent. However, as I  
10          mentioned in my comments, Dr. Howard is  
11          refining that right now as we implement it.  
12          And we can't -- we need to see that signed off  
13          and that refinement -- those refinements made  
14          so that we can put everything up on the web  
15          sites and show disclosure and make sure we've  
16          done it according to the letter of the  
17          refinement. We're close on that, so it's --  
18          it's imminent.

19          **MS. KIMPAN:** And Larry, you're right and I said  
20          at the beginning but then I talked a whole lot,  
21          there is a policy in place to which we are  
22          adhering right now, and have been all along.  
23          We haven't been running around going "huzzah,  
24          huzzah, no policy" for recent months. The  
25          policy that's in force for us is the most

1 recent one that was signed, which was many  
2 months ago. For our work, it sets the same  
3 floor, to be perfectly frank. It affects the  
4 annotation/attribution, but there are no  
5 changes, in our view, to how we've been  
6 conducting the dose reconstruction.

7 I can offer, most especially 'cause my document  
8 folks aren't in the room, for the  
9 annotation/attribution sites, as an appendix or  
10 as part of the A&A, we can certainly add in --  
11 and for all other things we can associate with  
12 that -- the changes that occurred to that  
13 document because of -- and that can be a  
14 document that's with the TBD and follows it  
15 around, even if it isn't something that -- in  
16 the text. So we can add an exhibit to our  
17 documents for the sole purpose of saying --  
18 where there are changes because of information  
19 garnered through the public meeting process,  
20 through rank and file workers, through  
21 individuals who -- who believe they -- they  
22 know something about that facility, we can add  
23 that as a separate addendum to our documents in  
24 a going-forward way. I'm not going to say the  
25 ones that go over this week are going to have

1           that 'cause it's going to take me a little bit  
2           of time to make sure. But based on what  
3           Larry's saying, the interest of the Board, Mr.  
4           Gibson's comments yesterday and throughout  
5           these meetings, certainly is something that our  
6           team can offer to do.

7           **DR. ZIEMER:** I'm not suggesting how that should  
8           be done, but I can certainly anticipate that as  
9           we go forward there will be some level of  
10          expectation from the Board that -- that we will  
11          need to be able to assure ourselves that in  
12          fact the input from the public meetings and so  
13          on somehow is in -- you know, it's not just we  
14          had the public meeting and there's a transcript  
15          and everybody's happy, but it didn't have any  
16          effect on anything, but --

17          **MS. KIMPAN:** Well, that's --

18          **DR. ZIEMER:** -- but we're going to want to, I  
19          think, have some way of sort of auditing that  
20          and say what difference did it make, in a site  
21          profile or --

22          **MS. KIMPAN:** Absolutely.

23          **DR. ZIEMER:** -- whatever it may be.

24          **MS. KIMPAN:** It's certainly the raise-on debt  
25          for this database --

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**DR. ZIEMER:** Yeah.

**MS. KIMPAN:** -- for worker comments that --

**DR. ZIEMER:** Right.

**MS. KIMPAN:** -- developed and what we need to do --

**DR. ZIEMER:** And if there is some attribution method --

**MS. KIMPAN:** Yeah, we could excerpt --

**DR. ZIEMER:** -- maybe that's a first step, but -- yeah.

**MS. KIMPAN:** Well, we could excerpt the database for individual documents and associate that with the document so somebody has -- doesn't have to go left hand and right hand. We can take all the comments from the Rocky meetings --

**DR. ZIEMER:** Yeah.

**MS. KIMPAN:** -- put it on with Rocky, and you'll see the comment, who made it, the ORAU team and/or OCAS response and any resulting change to --

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

**MS. KIMPAN:** -- the document process or product --

1           **DR. ZIEMER:** Yeah.

2           **MS. KIMPAN:** -- based on that comment. We can  
3 just extract that out of our other data source,  
4 associate it with the documents. It'll answer  
5 all of these questions in a real-time way.

6           **DR. ZIEMER:** Yeah, and again, I'm not  
7 suggesting how one would do this, but just  
8 conceptually to think about --

9           **MS. KIMPAN:** Absolutely.

10          **DR. ZIEMER:** -- think about how we go forward.  
11 Jim Melius --

12          **DR. MELIUS:** Yeah --

13          **MS. KIMPAN:** We'll do so.

14          **DR. ZIEMER:** -- and then Brad.

15          **DR. MELIUS:** Getting back to conflict of  
16 interest, my first question is -- for Larry or  
17 Lew is when is Dr. Howard going to sign off on  
18 this? We've been waiting many months. I was  
19 called in -- I believe in November telling that  
20 my latest round of comments were going to be  
21 ignored because they were -- everybody was in a  
22 hurry to get them out and it would take too  
23 long to address one of the issues that -- that  
24 I raised, and now it's into February and we  
25 still don't have a -- a policy. And so I'm

1           trying to get a handle on when will this fin--  
2           be finalized.

3           **MR. ELLIOTT:** The policy was signed I believe  
4           on November -- was it late November -- it's on  
5           our web site. It's signed by Dr. Howard. And  
6           post that signing, additional comments were  
7           received by Dr. Howard. I'm not sure whose  
8           comments those were or what extent they go to,  
9           but there are refinements that he's taking --  
10          making in the current policy, and a new one  
11          will be issued as soon as he gets it developed.

12          **MS. KIMPAN:** And we are in compliance with the  
13          one that is signed, by the way. We are --

14          **DR. MELIUS:** And again --

15          **MS. KIMPAN:** -- currently compliant.

16          **DR. MELIUS:** -- do we have an estimate of when  
17          that will be? 'Cause apparently it appears to  
18          be holding up what ORAU is able to do in moving  
19          forward with some of the stuff. That's...

20          **MR. ELLIOTT:** I have -- I have no estimate to  
21          provide you today. I guess we'll have to get  
22          back to you with that. The -- Dr. Howard works  
23          with one of the legal team members on  
24          developing this and gets input from others as  
25          part of that process, and I just don't have

1           that information today to share with you.

2           **MS. KIMPAN:** And let me assure the lack of

3           signature to a revised policy is not slowing

4           our work in annotation/attribution. If the

5           policy is as expected, it'll be a very prompt

6           web site change that we'll be able to do. It

7           of course wouldn't be prudent to do that change

8           now, lest something else affect the forms. But

9           we believe that the premise, the bases of who

10          is and isn't conflicted, that's our only

11          challenge on annotation/attribution. We're

12          looking through the lens of this policy in

13          identifying yes, Kate had a conflict on this

14          document. That has the potential to change.

15          The -- the places I identified the annotation

16          and attribution, we know we're going to do it

17          and the only -- who we have to annotate or

18          attri-- for those, we're -- they're in process.

19          They're going on. So the policy isn't holding

20          us up, we don't believe, in that way. And we

21          don't believe the new policy that's coming is

22          going to change how we've been running dose

23          reconstruction one iota. So just want you to

24          under-- there is a policy in force. We adhere

25          to it every day, and we've been adhering to it

1           for months and months and months, and we  
2           believe the result is we have never conducted a  
3           conflic-- a dose reconstruction or peer review  
4           of a DR with a conflicted or bias-potential  
5           individual.

6           **DR. MELIUS:** However, you have conducted many  
7           dose reconstructions based on conflicted site  
8           profiles, and that's always been the major  
9           concern. But in -- in terms of, you know,  
10          believe you that you're working on it, I would  
11          -- we would like to be able to see it and it's  
12          -- apparently you can't do that, and I think we  
13          understand that, until the NIOSH policy is  
14          finalized.

15          **DR. WADE:** What -- I'll carry back the Board's  
16          message to Dr. Howard that they -- they think  
17          it critical that this policy be finalized, and  
18          I'll e-mail you next week with the latest  
19          information that I have on that.  
20          Also, included in that could well be a decision  
21          on the part of NIOSH to instruct ORAU to post  
22          their materials on their web site. That's the  
23          one thing that seems to be hanging in the  
24          balance. So let me talk to Dr. Howard about  
25          this and to communicate clearly to the Board

1 next week his time frames and how we will deal  
2 with the issue of ORAU's posting their  
3 information on their web site.

4 **DR. MELIUS:** My second question has to do with  
5 the new annotation approach, and in -- again,  
6 I'm not sure you're aware of this, Kate, but  
7 the Ro-- I believe that the Rocky Flats  
8 annotated document is up on the web site. Is  
9 that --

10 **MS. KIMPAN:** Oh, I sure wasn't. Okay.

11 **DR. MELIUS:** Okay, yeah, yeah.

12 **MR. ELLIOTT:** Parts are.

13 **DR. MELIUS:** Parts are.

14 **MR. ELLIOTT:** Parts are.

15 **DR. MELIUS:** Okay -- can -- can someone  
16 explain. I obviously went and looked for Roger  
17 Falk and there's -- in the introduction and I  
18 guess which -- I can't tell which parts are new  
19 and which parts aren't and so forth. Chapter 4  
20 or 5, internal dose, which I believe he  
21 originally authored, now is up there with I  
22 believe 130 annotations in it, something on  
23 that order. It's about a -- 30 pages of text,  
24 about 15 pages of annotations, and all those  
25 annotations are Roger Falk, which seems a bit -

1           - a bit odd, but what mostly dis-- more  
2           disturbs me and maybe it's because the -- the  
3           document isn't -- you know, the complete  
4           document, new document isn't up there is  
5           there's no mention that Roger Falk is  
6           conflicted. So someone going in and looking at  
7           the Rocky Flats document would see something  
8           with a bunch of footnotes from Roger Falk -- or  
9           no idea that he has any conflict unless one  
10          somehow would trace this back through a few web  
11          sites and find it. So my question is, is there  
12          going to be some sort of -- part of the  
13          introduction or early in the document that  
14          would explain the annotation and explain the  
15          reasons for it, as well as at least alerting  
16          people that these -- attribution is someone who  
17          has a -- a conflict of interest on this  
18          particular site?

19          **MS. KIMPAN:** We'd be pleased to do that. We'd  
20          be pleased to describe -- for the in particular  
21          six documents I've named where either an owner  
22          or contributor has a conflict, even though  
23          their contribution under the new policy will be  
24          properly as a site or subject expert and not a  
25          key function, in those situations we're still

1 going to be very concerned because there is a  
2 bias potential at that site. So we'd be very  
3 pleased to identify up front, or as part of the  
4 -- you know, the part we're going to talk about  
5 what the contribution of the worker might have  
6 been, we'd be pleased to say who we're calling  
7 out and why --

8 **DR. MELIUS:** Yeah.

9 **MS. KIMPAN:** -- which conflicted contributors.  
10 That's --

11 **DR. MELIUS:** It can be done on a --

12 **MS. KIMPAN:** -- no problem for us at all.

13 **DR. MELIUS:** -- chapter basis or so -- but --

14 **MS. KIMPAN:** Absolutely.

15 **DR. MELIUS:** -- I think -- I think it would be  
16 -- be -- be helpful 'cause it's not clear why  
17 it's --

18 **MS. KIMPAN:** We'd be pleased to do that.

19 **DR. MELIUS:** -- why the attributions are and it  
20 certainly seems odd and some ways -- I mean --  
21 again, I don't -- I didn't do a comparison --  
22 side-by-side comparison (unintelligible) sorry,  
23 but it might be easier just to say the  
24 chapter's by Roger and was --

25 **MS. KIMPAN:** Yeah, and --

1           **DR. MELIUS:** -- reviewed by somebody else. It  
2 doesn't seem that 130 -- 15 pages of  
3 attributions really --

4           **MS. KIMPAN:** Well, you're right, Dr. Melius. I  
5 said in my comments and it's part of the  
6 premise, the reason we're doing that is  
7 everything Roger did we're going to make  
8 certain there's sunshine on. We just need to  
9 say that's why we're doing it and we can do so  
10 quite easily.

11          **DR. MELIUS:** And my next question has --  
12 concerns the issue of getting a -- a --  
13 documents owners in place. I mentioned this  
14 yesterday. The -- when we went to have a  
15 Hanford workgroup, I was told that that could  
16 not be scheduled for a couple of months because  
17 the key site expert, who was absolutely  
18 necessary for any meeting, Jack Fix, was out of  
19 the country and unable to be present to meet  
20 with us. And my understanding of the document  
21 owner process would be someone that could --  
22 understood and could review the technical  
23 issues involved, and I don't see why a  
24 conflicted site expert is absolutely necessary  
25 in order to move forward on any resolution of

1           comments on a -- a site profile or an issue of  
2           that. And I would hope that we would get in  
3           place, and maybe this is an issue of timing and  
4           staffing and so forth, get in place document  
5           owners that can really own the document and  
6           understand them because, as I've said before,  
7           if we don't have good document owners that  
8           understand -- are technically proficient on the  
9           document and understand the sites and so forth,  
10          then this whole policy I believe will be a  
11          failure and we don't need someone that's an  
12          editor of a document. We need someone that  
13          really will take charge of the document as an  
14          owner and I hope we could get that in place for  
15          Hanford and some of these other sites that are  
16          poten-- site profiles that are potentially  
17          problematic, particularly as we have SEC  
18          evaluations or petitions to be considered at  
19          these sites where will be a great deal of  
20          public scrutiny and so forth on these issues.

21          **MS. KIMPAN:** I absolutely agree with the  
22          premise of what you're saying, Dr. Melius. The  
23          ORAU team has endeavored to make certain that  
24          the best expertise was at the table. At times  
25          some experts in particular fields, and they can

1 be broad-reaching across the complex, are  
2 people that have conflicts at certain sites.  
3 Two points that you made I'd like to address.  
4 One is you're absolutely right, a -- document  
5 owners need to know everything about their  
6 document and need to be able to defend, discuss  
7 and contemplate whether those contributions  
8 from potentially biased individuals was right.  
9 We've been endeavoring to provide to OCAS the  
10 right experts -- some of their choosing, some  
11 of our fronting -- for certain things. I  
12 apologize for how that went and I -- I'll tell  
13 you, the ORAU team will never again in a public  
14 arena have anyone with a potential conflict or  
15 bias representing our team. I think that we  
16 all understand that somebody can have a great  
17 deal of specific technical knowledge, and  
18 that's a great resource for the author, at  
19 times for the Board, at times for the  
20 government, but both the importance of this  
21 policy, the substance of what you're bringing  
22 up and the appearance say that'll never happen  
23 again. Our owners, and it is a lengthy  
24 process, it has been challenging for us -- I'm  
25 sure it has for OCAS as well. Our owners need

1 to know everything about a very complex body of  
2 literature and work, and we believe they're  
3 there. So my apologies for it appearing any  
4 way else or affecting a meeting. That won't  
5 happen again and we are absolutely endeavoring  
6 to assure that our document owners are actual  
7 document owners so they can discuss, describe,  
8 analyze and defend every finding, conclusion  
9 and fact in that document, without having to  
10 look over their shoulder or ask somebody else.  
11 That's the place we're going and we believe  
12 we're there.

13 **DR. ZIEMER:** Larry.

14 **MR. ELLIOTT:** I -- I support your point, Dr.  
15 Melius. I embrace it. I think a document  
16 owner needs to take the ownership of the  
17 document. We're -- we're interested right now  
18 in what has been left out of a document.  
19 That's where we also ought to be focusing our  
20 attention. What was left out of a document,  
21 like the chapter of the Rocky Flats site  
22 profile you're talking about, what else may --  
23 may -- or should have been considered. Was  
24 there anything else to be considered. So I --  
25 I fully embrace your point. I take it home. I

1 take it to heart.

2 I do have to take a little exception with the  
3 example, though. Mr. Fix, Jack Fix, was -- was  
4 felt to be necessary for some technical issues  
5 and questions being raised at that particular  
6 point. It wasn't that he has to be at all  
7 meetings. At this example that you raise I  
8 think is being portrayed, appropriately, as a  
9 problem. But it is not -- it was not our  
10 intention in that example that Mr. Fix had to  
11 be at every one of these working group  
12 meetings. It was this particular meeting where  
13 certain questions of a technical nature were  
14 being raised about Mr. Fix's work, and we  
15 wanted to avail the working group of his  
16 explanation.

17 **DR. ZIEMER:** They were trying to fix the  
18 problem, so to speak. Okay --

19 **DR. MELIUS:** Can I just respond? And again --

20 **DR. ZIEMER:** Do you have a follow-up or we have  
21 some other questions.

22 **DR. MELIUS:** Can I just ask one --

23 **DR. ZIEMER:** Yeah, go ahead.

24 **DR. MELIUS:** -- one -- one, just briefly. And  
25 again, not to be-- belabor it and so forth, I -

1           - I think it would have been as well to -- Mr.  
2           Fix could have been made available later. The  
3           information involved -- there were some written  
4           reports that could have been addressed and I --  
5           I -- again, it wasn't -- this -- you know, just  
6           delays us more and I think it's -- it's a -- a  
7           significant problem, but ho-- hopefully we'll  
8           be beyond that and it won't happen again and  
9           let's just move on with it.

10          **DR. ZIEMER:** Okay. Brad I think is next, Brad  
11          Clawson.

12          **MR. CLAWSON:** Kate, we're going to talk a  
13          little bit about Idaho, and I'm conflicted on  
14          it so I'll tell you that right now. But part  
15          of the issue is, and we hear this time and time  
16          again, is these site profiles, these TDBs (sic)  
17          are like flying over the site at 30,000 feet.  
18          Now granted, we are using truly professionals,  
19          and I have the utmost respect for many of them,  
20          but I just wanted to pull up this one. We've  
21          got one little blurb here, level of airborne  
22          activity around 603 unlined storage pools was a  
23          chronic problem, da da da da da. You know  
24          what? I -- I deal with that place quite a bit.  
25          We had an inch and a half of lead on the

1 basins. It doesn't even really address the  
2 conditions that were there. I had the  
3 opportunity, it's been over a month ago, to  
4 take our health physicist that is writing --  
5 keeping the site profile up to date, for the  
6 first time in his life, into N-Tech\* -- by the  
7 way, he forgot his TLD; I had to explain that  
8 to him -- and take him down into these areas.  
9 These -- there's so many things that are  
10 missing, and this is the frustration of the  
11 people. And I applaud Larry, and I know you  
12 guys have got a difficult job. It -- it --  
13 it's hard to get all this in here, but you've  
14 got to understand what the people are seeing,  
15 too, because I'm looking here -- it just told  
16 me that my basins got emptied in 1984. Well,  
17 Kate, I did three-fourths of that. We finished  
18 in '94. There's ten years difference in this.  
19 And -- and this is a frustration for them.  
20 And when I look down and the man -- I -- I have  
21 a great deal of respect for, I.C. Rich, well,  
22 you know there's an issue there. He was there  
23 for years. Now am I questioning -- and  
24 everything he's put in there, but it's been  
25 generali-- it's a generalized system.

1           There's another incidence in here when we cut  
2           into a fuel element. Now that one's very dear  
3           and near to me because it's in one of my  
4           facilities, but it said that we had a release,  
5           it actually boiled the lid off the cask, but no  
6           release to the outside public. 603 was a  
7           respirator zone for six and a half months. Two  
8           and a half years we were in zone one clothing  
9           de-conning it down. This changed the whole  
10          structure of it. So these -- these are the  
11          frustrations that people have. And I'll be  
12          right honest with you, I -- I know that we're  
13          striving to make better outreaches, but until I  
14          came onto this Board I didn't even know that  
15          we'd had a TBD done for the site. And it's  
16          been quite interesting for me to read, but I  
17          see so many gaps. It is -- it is a generalized  
18          statement. And everything they say is true,  
19          but it's -- it's like from a very high  
20          altitude. And this is the frustration of the  
21          workforce. Well, I was down there and I  
22          realize this.

23          I had -- I had the individual come down -- and  
24          the reason he came down was because I'd just  
25          filled the basins full of concrete and he

1           wanted to actually see it. He'd never been in  
2           the facility, but he'd read basically this  
3           information. And he asked what one large  
4           portion of it was. It was a cutting facility.  
5           And he says oh, that doesn't matter; that was  
6           D&D'd years ago. No, I just pulled four fuel  
7           elements out of it, by hand, that we cut, by  
8           hand, two years ago.

9           But -- but see, as they go through, when they  
10          take a facility -- the site profile is to give  
11          a generalized issue, but if you were to take  
12          this TBD and put it against what our site  
13          profile is out there that is being written,  
14          it's pretty much the same, just little bits and  
15          pieces. So what I would express to you is in  
16          these outreach programs be able to take in some  
17          of this because these TBDs have been -- become  
18          so general, and when I go to every one of these  
19          meetings, it's the same thing that I hear.  
20          Well, yeah, it's not really wrong, but it's not  
21          really correct, either.

22          So I -- I -- I hope that we can strive to do  
23          that. Plus you also expressed that you were  
24          going to re-look into Idaho's technical databa-  
25          - the TDB (sic) and review it.

1           **MS. KIMPAN:** Yes.

2           **MR. CLAWSON:** If there are any changes in it --

3           **MS. KIMPAN:** Yes.

4           **MR. CLAWSON:** -- how are we going to be able to  
5 know that? Because this is real wonderful  
6 reading, but --

7           **MS. KIMPAN:** If there -- let me address the  
8 last point first and then the --

9           **MR. CLAWSON:** Okay.

10          **MS. KIMPAN:** -- first point and then Larry can  
11 jump in as I see -- on the last point, we will  
12 capture any changes that have been made, Brad,  
13 particularly for a report to this Board because  
14 this is such an important issue. So if any of  
15 these reviews inspires a change, especially --  
16 my gosh, if it's a change because our  
17 information was potentially biased or  
18 conflicted, if that were the reason, we will  
19 call it out as such. I can report to the Board  
20 on any changes we find to every document that's  
21 going through this process. It'll be a good  
22 day if all of our conclusions stand. It'll be  
23 a great day if we improve our document by  
24 learning something through this process.  
25 Secondly, and I don't know the appropriacy

1 (sic) of this -- well, I know the appropriacy.  
2 You're a guy -- you're a -- a person, not just  
3 a Board member. I'd like to invite you, as a  
4 conflicted site expert, and anybody else at  
5 INEEL that you have reason to believe has  
6 information that may have been omitted,  
7 neglected or treated wrong in our document, I'd  
8 like to invite you formally to let us know when  
9 you want us out there for a meeting with these  
10 people to capture every concern you have about  
11 our document. And we will be out there with  
12 bells on to capture this, and welcome you to  
13 participate, as the document's developed, as a  
14 conflicted site expert. We have to call out  
15 your contribution because you work there --  
16 **MR. CLAWSON:** Right.  
17 **MS. KIMPAN:** -- and anybody else you bring to  
18 the -- to bear, but I'd like to offer right  
19 now, please, help us make the document better.  
20 If you know things we've omitted, it may show  
21 us what we're not asking in other places. In  
22 particular, this document had a conflicted  
23 owner. It's of particular import on this  
24 document and I'll have my worker outreach folks  
25 contact you right after this, but let us know

1           when you'd like us there, who else you'd like  
2           contacted, how best to reach people that have  
3           these voices -- whether it's old labor pension  
4           rolls, whether it's newspapers, radio, I don't  
5           care what, you tell us how to get the right  
6           people in the room, you tell us who those are.  
7           Please help us.

8           **MR. CLAWSON:** Okay.

9           **MR. ELLIOTT:** Let -- let me also make sure that  
10          everybody understands -- I hope they recognize  
11          it, maybe they don't -- we welcome comments on  
12          our Technical Basis Documents, site profiles,  
13          Technical Information Bulletins. You can  
14          provide those comments to us. We'd like them  
15          in writing. You can send them by e-mail. You  
16          can go on the OCAS web site and hit the e-mail  
17          thing and send the comments that way. Those  
18          are then placed in a -- in a docket and we make  
19          sure that they're given to the team that's  
20          working on that particular document. Okay? So  
21          they're passed on.

22          The other -- the other way I would answer your  
23          question about how will you know if a -- if a  
24          document is changed and whether that change  
25          resulted from a worker outreach meeting or

1           resulted from technical comments that have been  
2           given in the review process, whatever  
3           stimulated the change. If you go to the second  
4           or third page of any of our documents that have  
5           experienced a revision, you're going to find a  
6           brief statement there. And I've asked for  
7           instances where, through this Board's actions  
8           or through worker outreach meetings or through  
9           input that we gained that resulted in a change  
10          in a document, it be so entered on that page.  
11          And so when you get a notice from Chris Ellison  
12          that a new document, a revised document has  
13          been placed on the web site, I encourage you to  
14          go to that third page -- second or third page,  
15          I don't recall which one; it's right after the  
16          cover page, there's usually a page left blank -  
17          - but check out what the revision was, why did  
18          it get changed, and you'll see it there. If  
19          you have questions, if it's not informative  
20          enough, let me know because that -- there's a  
21          purpose behind that statement. You know, we  
22          want people to understand why we made that  
23          change.

24          **MR. CLAWSON:** And -- and also, too, Ka-- I've -  
25          - I've got to make sure you realize, because I

1           talked with Mark.

2           **MS. KIMPAN:** Uh-huh.

3           **MR. CLAWSON:** Mark was trying to set up a  
4           little bit better outreach out there, but the  
5           people didn't understand what he was trying to  
6           do.

7           **MS. KIMPAN:** Okay.

8           **MR. CLAWSON:** They didn't understand well, why  
9           is OCAS coming in here. They felt like they  
10          were going to lose credibility and --

11          **MS. KIMPAN:** Right.

12          **MR. CLAWSON:** -- they thought OCAS was coming  
13          in to -- to deny all this stuff, and so we need  
14          some things to work on that. But I'll be right  
15          honest, as a Board member, it's very difficult  
16          for me to figure what I can and I can't do  
17          because of the position that I'm in.

18          **MS. KIMPAN:** You can definitely, from my view -  
19          - and somebody else is going to have to tell  
20          you if it's not appropriate -- in terms of the  
21          kind of knowledge that you have, Brad, I've  
22          known you for a long time, you know who some of  
23          the right people are to tap. If it would be  
24          better for us to invite you here, if it would  
25          be better for you to arrange the meeting and us

1           be your guests, I understand the discomfort,  
2           the difficult that was encountered in the last  
3           attempt to have a meeting there. We want to do  
4           better at that. Whatever you think is most  
5           comfortable, if you'd like us to bring you to  
6           Cincinnati, that would be fine. If you'd like  
7           to have the meeting in -- in your -- on your  
8           turf so it doesn't feel like the government  
9           coming in telling you what to do, that's also  
10          fine. We want the information. We want to  
11          interview you and others. You mentioned  
12          several specific items in a four-minute  
13          discussion, so we want to make sure we're  
14          listening to you and others. As Larry said, as  
15          -- as Mark Lewis on our team -- we've had -- we  
16          have room to improve in this arena, and in  
17          particular you've identified one way to help on  
18          this document. Let's get some of the -- some  
19          additional people. We have done outreach  
20          there. Let's do more.

21          **MR. ELLIOTT:** One premise of the policy that  
22          Dr. Howard has signed tells that we --  
23          encourages us to hear people out, hear all  
24          voices. We want all sources of information  
25          that we can seek out. Yes, you're a Board

1 member, but I look at you as a -- as a site  
2 expert --

3 **MS. KIMPAN:** Absolutely.

4 **MR. ELLIOTT:** -- as a worker who knows what  
5 happened on the floor. You should feel free to  
6 come forward to us and talk to us about your  
7 concerns in our documents and in our  
8 approaches, even -- you could put on your Board  
9 member hat and talk to me that way or you can  
10 put on your citizen hat and talk to me that  
11 way. Okay? You should not feel restricted in  
12 talking one-on-one with me or Kate. Your  
13 conflict is --

14 **MS. KIMPAN:** Absolutely.

15 **MR. ELLIOTT:** -- is, you know --

16 **MS. KIMPAN:** Absolutely, you're a site expert,  
17 Brad, without question.

18 **MR. CLAWSON:** Okay, there -- there's one other  
19 thing because I've kind of been jabbed for this  
20 one because I keep talking about how all these  
21 sites are interacted and so forth like that  
22 because I have stuff from Paducah and Mound, I  
23 have stuff from probably every one of these  
24 sites. And -- and we brought up at Los Alamos  
25 -- we did an SEC petition because of lanthium

1 (sic), which came from Idaho. And I came to  
2 find out something very interesting about that  
3 because -- and this is what I'm trying -- the  
4 point I'm trying to bring forth is this trail  
5 that we go down, we've got to see where it came  
6 from and what it did because it -- it mentions  
7 it briefly in the TBD, but they had to  
8 reconstruct a complete facility to be able to  
9 handle that because it came out of the reactor  
10 so hot. So the-- this is -- this is why the --  
11 the workforce, when they read something like  
12 this, they -- they get a little bit frustrated,  
13 and I appreciate your concerns, and -- and I'll  
14 work with you in --

15 **MS. KIMPAN:** Absolutely, we'll be --

16 **MR. CLAWSON:** -- what we can.

17 **MS. KIMPAN:** -- in touch -- in touch right  
18 after --

19 **MR. CLAWSON:** A lot of this is people's -- you  
20 know, we -- we that deal with this even have  
21 frustrations trying to get around through  
22 things, and then you get a -- some of these  
23 older people and so forth like that, and it's  
24 very difficult. So I -- I commend you on the  
25 outreach. I think that we can do better and --

1 and we'll do whatever we can to help.

2 **MS. KIMPAN:** Very good. We look forward to  
3 your help.

4 Dr. Ziemer, I'm informed by my sources that,  
5 (a), I need to talk louder, which is not  
6 usually a thing I -- I need, and (b), Board  
7 member Gibson would like to speak.

8 **MR. GIBSON:** Yeah.

9 **DR. ZIEMER:** I just wanted to caution Brad to  
10 be careful what he says about the older people,  
11 but other -- other than that, Mike Gib--

12 **MS. KIMPAN:** I resemble (sic) that remark.

13 **DR. ZIEMER:** Yeah, Mi-- Mike, go ahead.

14 **MR. GIBSON:** Yes, I just have a few comments  
15 relating to Ms. Kimpan's earlier statements  
16 I've been trying to get through. Number one,  
17 when she spoke of if an individual has an  
18 incident happen that may have a determination  
19 or a difference in their dose reconstruction,  
20 that is personal to them and it could change  
21 their dose reconstruction. I have never in 20-  
22 some years at a DOE site seen any one person  
23 individually working alone. So I don't see how  
24 -- yes, it may affect the individual's dose  
25 reconstruction, but it may also have a

1           significant impact on other individuals. And  
2           then for a -- you know these site experts,  
3           professionals or whatever, just because they  
4           know of a project, an area or a -- some -- some  
5           situation going on at a site, that doesn't mean  
6           that they don't know what went on there every  
7           day. So there's -- there's kind of conflict  
8           that -- again, you know, I challenge the fact -  
9           - for anyone to tell me that a DOE site they've  
10          worked alone and it can only affect them and  
11          them only, and then for a site expert to be  
12          able to generalize that nothing has happened in  
13          a -- in a particular area or situation.

14         **MS. KIMPAN:** Mike, on the -- the part about the  
15         individual, I guess I used a bad example in the  
16         world of DOE work. The kind of thing that  
17         would affect an individual that wouldn't  
18         necessarily be generalized -- I want to say  
19         parenthetically, unless it was the norm at the  
20         facility -- we have testimony from individuals  
21         -- as you know, I've been taking testimony from  
22         DOE workers since 1999, folks who said they  
23         took off their badges, and there were all sorts  
24         of reasons and at times that was normative a  
25         bazillion years ago, according to some workers.

1 But that's the kind of example. If -- if I say  
2 the reason you don't have my dose right is  
3 because I only wore my badge for half a day,  
4 'cause if I wore it all day my numbers were  
5 going to be too high for me to go to work the  
6 next week, that's the kind of thing that would  
7 affect that individual, would not be  
8 generalizable unless we found that the entire  
9 site encouraged, it was part of how the site  
10 operated. So I used a bad example potentially  
11 about the -- the glovebox with a hole in it for  
12 what would be individual. Obviously some of  
13 the things you're talking about, people working  
14 together, if there's some kind of a release or  
15 spill or a breakdown in equipment, in certainly  
16 recent times that would merit an incid-- an  
17 incident report. It would absolutely be part  
18 of the consideration of the overall document.  
19 Regarding your concern about conflicted site  
20 experts, I'm not sure I understood it. We've  
21 got a lot of site experts, including Brad who I  
22 think I just convinced to come on my team as a  
23 conflicted site expert. We get a lot of  
24 information from individuals that are  
25 conflicted. Everybody isn't necessarily

1            conflicted on the one side of the conflict.  
2            There are a whole lot of people that are  
3            claimants who are, by definition, conflicted  
4            because they have a claim against that  
5            facility. It doesn't mean we disregard what a  
6            claimant says. Every claimant is, by  
7            definition of claiming, a conflicted individual  
8            for that site. We don't not want that input.  
9            The entire purpose of this conflict or bias  
10           policy is to assure that we use the input from  
11           a conflicted individual in a proper way. When  
12           that's a worker giving testimonial, it's proper  
13           to listen to what the worker has said, knowing  
14           they're conflicted. When it's a site expert  
15           like Brad or Roger Falk, if they're a site  
16           expert or subject expert, we must look through  
17           that same lens to assure that their  
18           contribution is correct in spite of the  
19           conflicts that individual or group of  
20           individuals may carry. We're not ashamed of  
21           conflicted people. I think the people who've  
22           worked at DOL know darned well if there was a  
23           way to learn what DOE did that wasn't DOE, none  
24           of us would be here. The way that DOE did  
25           stuff was quite unique. Nobody else did that

1 the same way. DOD didn't, Navy nukes didn't,  
2 and by gosh, commercial nukes certainly didn't.  
3 So there is a need to know what went on in  
4 these facilities from guys like Brad and a  
5 whole bunch of other people, including all the  
6 workers. All the interviews that have been  
7 conducted with all those workers we consider  
8 hundreds and hundreds, tens of thousands of  
9 conflicted site expert interviews. That's all  
10 conflicted information. It doesn't mean it  
11 isn't factual. It means the person giving the  
12 information has a conflict under anybody's  
13 analysis of what a conflict is. So I'm not  
14 certain if you point was that we shouldn't use  
15 Brad or we shouldn't use our other experts, but  
16 I'll tell you right now, I will use properly  
17 site and subject experts to assure we are  
18 giving workers and the government the very best  
19 information we can get about what went on in  
20 these facilities. And we certainly welcome a  
21 group of conflicted experts we haven't had  
22 great access to, and that's the ones Brad's  
23 referring to, some of the folks who know  
24 exactly what went on, who we need to hear the  
25 voice of, and we need to declare they're a



1           Okay, we're due for a break. Let's go ahead  
2           and take our break at this time and then we'll  
3           -- we'll resume about 11:00 o'clock.

4           (Whereupon, a recess was taken from 10:40 a.m.  
5           to 11:00 a.m.)

6           **DR. ZIEMER:** Okay, we're ready to resume.  
7           Before Dr. Neton makes his presentation, I'm  
8           going to call on Libby White from DOE. Libby  
9           has a very brief comment relating to the  
10          records issue that we were discussing  
11          yesterday, particularly with respect to those  
12          records at Los Alamos. So Libby, if you would  
13          address us, we'd appreciate it.

14          **MS. WHITE:** Sure, yeah, thanks so much. Andrew  
15          Evaskovich brought this issue up last night  
16          during the public comment period, and I just  
17          wanted to follow up really briefly.

18          The Los Alamos Medical Center records issue was  
19          brought to our attention by Congressman Udall's  
20          office about eight months ago, and we -- we,  
21          being Department of Energy, has been working  
22          with NIOSH and the Los Alamos Medical Center  
23          and the Lab and the site office and our Office  
24          of Legacy Management to try to come up with a  
25          plan for the review of these records.

1           They were owned by the Atomic Energy Commission  
2           until December 31st, 1963, and then later sold  
3           to a private entity. AEC was given six years  
4           to make copies of any of the records, but we  
5           don't know whether that was ever done, so we  
6           don't know what DOE or Los Alamos currently has  
7           and what is only in existence at the Medical  
8           Center in terms of worker records.

9           What we do know is that the Medical Center  
10          wants to destroy the records. They've already  
11          more than met their ten-year requirement --  
12          State requirement to maintain the records. We  
13          also know the records are mixed with community  
14          member records and stored in a warehouse on  
15          county property.

16          There are about 2,500 to 3,500 cubic feet of  
17          records, and we also know that the records may  
18          be covered in Hantavirus-infected mouse  
19          droppings. So we're currently planning for the  
20          decontamination and review of these documents.  
21          We have a plan in draft. We hope to make this  
22          plan available to the Board and to NIOSH and to  
23          all parties involved, the Congressional  
24          delegation, sometime next week. And I just  
25          wanted everyone to know that it is the

1 Department of Energy's full intent to pay for  
2 this review and decontamination, and then  
3 ultimately the records will be sent to -- the  
4 worker records, that is, will be sent to the  
5 Federal -- Denver Federal Records Center so  
6 that they can be used for EEOICPA purposes. So  
7 more information to come.

8 **DR. ZIEMER:** Thank you very much, Libby. And  
9 as we go forward -- and we can discuss this  
10 during our work session, but if the Board can  
11 play a role in assisting in any way, well, we  
12 want to think about what we might do in that  
13 regard.

14 **MS. WHITE:** That would be great. That was one  
15 thing I just forgot to ask, and that is we  
16 would very much like to have some oversight by  
17 the Advisory Board, if possible -- one or more  
18 members to just sort of participate --

19 **DR. ZIEMER:** We may think about maybe having a  
20 workgroup that could at least participate in  
21 some way with NIOSH and DOE, but we'll talk  
22 about that during our work session.

23 **UNIDENTIFIED:** A question --

24 **DR. ZIEMER:** A question first.

25 **MR. GIBSON:** Dr. Ziemer?

1           **DR. ZIEMER:** Yes, Mike, hang on, we've got a  
2 comment from Mr. Presley and then you'll be  
3 next.

4           **MR. GIBSON:** All right.

5           **MR. PRESLEY:** Libby, do you know if those  
6 things have been -- are they catalogued by name  
7 or year or how are they catalogued or how are  
8 they stored? Do we know anything about the way  
9 they're stored?

10          **MS. WHITE:** We know that they're stored in  
11 boxes. The conditions are not good at all in  
12 this warehouse. We have pictures that we can  
13 share with DOL, and we believe that they're  
14 stored -- that each -- there's a file for each  
15 individual's medical record and I believe  
16 there's a name on the outside of that -- of  
17 that folder, file folder. But two members of  
18 our staff are actually in Los Alamos right now  
19 and can provide more detail. They went to the  
20 warehouse yesterday and they can provide more  
21 detail, certainly by next week.

22          **DR. ZIEMER:** Okay. Thank you. Mike Gibson?

23          **MR. GIBSON:** Yes. I'd just like to ask Ms.  
24 White and I hope all of you received the e-mail  
25 I sent yesterday and hopefully it was forwarded

1 to others about the burial of the Mound  
2 records. And I would just like an update on  
3 that.

4 **MS. WHITE:** The Mound records? We actually are  
5 till in the midst of collecting information.  
6 There was one document which was distributed to  
7 Board members in your materials that we had  
8 been searching for and just found the day  
9 before the Board meeting, and that was a letter  
10 written by Kathy Robertson-DeMers to her  
11 management in the mid-1990s. So we hope  
12 that'll be helpful, but we're also searching  
13 for additional documents, including some that  
14 we believe may be in classified section of  
15 OSTI\* down in Oak Ridge. So once we're able to  
16 get that additional information, we will  
17 certainly share it with you and hopefully that  
18 will help us to make a collective decision as  
19 to how to proceed at that point.

20 **DR. ZIEMER:** Okay. Thank you.

21 **MR. GIBSON:** Okay. Dr. Ziemer?

22 **DR. ZIEMER:** Yes, go ahead, Mike.

23 **MR. GIBSON:** Is Ms. White in possession of the  
24 40-some page PDF document that I believe was  
25 authored by Cheryl Kirkwood, records management

1 -- manager at Mound at that time?

2 **DR. ZIEMER:** Okay. A 40-page document from  
3 Cheryl --

4 **MR. GIBSON:** And because -- the reason I say  
5 that is because several pages of that document  
6 list on the -- the title, health physics  
7 records, incident records and et cetera, and I  
8 think that's very important to dose  
9 reconstructions from -- from this facility.

10 **DR. ZIEMER:** Libby, do you know if you have the  
11 document Mike is referring to?

12 **MS. WHITE:** I'm not sure if I've actually got a  
13 copy of that document or not. Do you, Larry,  
14 know if -- is that -- we've shared everything  
15 that we --

16 **DR. ZIEMER:** Who is the author of that one  
17 again, Mike?

18 **MR. GIBSON:** Cheryl Kirkwood.

19 **MS. WHITE:** We've seen several by Cheryl.

20 **UNIDENTIFIED:** (Off microphone) Yes, we  
21 (unintelligible) --

22 **DR. ZIEMER:** Yes -- yes, they --

23 **MS. WHITE:** Okay.

24 **DR. ZIEMER:** Larry has confirmed, and Kate has,  
25 that they have a copy of that as well.

1           **MS. WHITE:** Okay.

2           **DR. ZIEMER:** And you heard the commitment from  
3 Glen Podonsky (sic) earlier in the week  
4 regarding those particular records.  
5 Okay, a comment from Phil Schofield.

6           **MR. SCHOFIELD:** A couple. One on the Mound's  
7 records, as I stated last night, that when they  
8 do go in there to retrieve those records, it  
9 may take longer than we would like just because  
10 of the nature of Area G. It is a waste dump  
11 and it has everything from chemicals to  
12 biologicals to every isotope just about you can  
13 dream of in that place and it is a very nasty  
14 environment to work in. So it may take them a  
15 little longer and a little more effort than a  
16 lot of people would like, but hopefully they  
17 are retrievable.

18           And on the Los Alamos records, I actually  
19 talked to someone who went in and got the  
20 physical view of those records, and they are  
21 just -- they were put in storage boxes and the  
22 boxes were just literally thrown into the  
23 storeroom, so there's been water damage,  
24 there's been mice, squirrels in there,  
25 chipmunks in there, so you have the biological

1 problems you have to worry about. At least one  
2 person has come forward at some point and said  
3 they suspect some of the records may have low  
4 level alpha contamination on them. So I mean  
5 there's a number of issues there and the  
6 records were stored -- most of them will be in  
7 a single file folder. That is the way Los  
8 Alamos Medical Center has historically always  
9 done their records. And each of those folders  
10 would have that person name -- in case of  
11 people have large medical file folders, it may  
12 be two or three of these. But like I says, in  
13 -- the way it was done historically, it was the  
14 day you moved there or the day you were born,  
15 the file was started on you and it did not  
16 matter what doctor you saw, who you saw, what  
17 you -- was done to you, what testing, it all  
18 went in that file, so there is -- a lot of  
19 those files are going to be a combination of  
20 personal medical records and things that are  
21 related to things that happened to people at  
22 work. So it's going to be a slow, tedious  
23 process going through those files.

24 **DR. ZIEMER:** Okay, thank you. Larry.

25 **MR. GIBSON:** Paul, could I make another

1 comment?

2 **DR. ZIEMER:** Yeah, okay, go ahead, Mike.

3 **MR. GIBSON:** If I'm not mistaken, it's the  
4 Department of Energy's policy to try to reduce  
5 waste as far as high level contamination, et  
6 cetera. And if these things had minimal  
7 contamination, why were they then put into a  
8 area that is much more toxic, according to my  
9 colleague, Phil.

10 **DR. ZIEMER:** Good question, Mike, and I don't  
11 think any of us know the answer to that  
12 particular one. We've asked it amongst  
13 ourselves, as well.

14 A comment from Larry.

15 **MR. GIBSON:** Well, I would like to find that  
16 answer out.

17 **DR. ZIEMER:** Well, I think we all would.

18 **MR. ELLIOTT:** Are you talking about the Mound  
19 records?

20 **DR. ZIEMER:** Mound records.

21 **MR. ELLIOTT:** Mike, are you talking about the  
22 Mound records?

23 **MR. GIBSON:** Yes, Larry, I am.

24 **MR. ELLIOTT:** Okay, I don't have an answer for  
25 you, either, but I -- I would be interested to

1 know, as well.

2 My -- my comment goes to Phil here. When NIOSH  
3 was working with DOE and talking about how to  
4 go in and look at the hospital records, the  
5 medical records, we brought up the alpha --  
6 possible alpha contamination. But if you could  
7 share with me and the audience, I'd appreciate  
8 if you have any idea about why there would be  
9 alpha contamination there because that would  
10 help go to the extent that potentially might be  
11 there. In our conversations we were talking  
12 about using a -- you know, a -- frisking the  
13 records to make sure the boxes, and then the  
14 records as they were being pulled out of the  
15 boxes, to make sure that they weren't heavily  
16 contaminated. Or if they -- if they were, they  
17 could be set aside and appropriately handled.  
18 But if you knew anything at all about why there  
19 might be alpha contamination in medical  
20 records, patient records in -- in a hospital  
21 setting, we'd like to understand that.

22 **MR. SCHOFIELD:** Historically, Los Alamos  
23 Medical Center was used for both employee  
24 injuries and for personal health care, so there  
25 was a number of incidents over the year where

1 people were injured, had some contamination on  
2 them, and because the Lab didn't really have a  
3 good medical facility for X-rays, things like  
4 that, surgery, they were sent to the Medical  
5 Center. And if they were a person who came to  
6 that medical center anyhow, their records would  
7 be pulled, their treatment was put in that file  
8 and then it was filed with the others. And  
9 this is where some of this contamination is ex-  
10 - suspected to have come from.

11 **DR. ZIEMER:** Okay, thank you. Well -- Wanda  
12 Munn, do you have a comment?

13 **MS. MUNN:** I had one question for Libby White  
14 with respect to the Los Alamos records and the  
15 jurisdictions there. The only two real players  
16 here are DOE and the contractor. Right? You  
17 don't have any problem with the county? There  
18 isn't any possibility that the county's going  
19 to get involved, I just want--

20 **MS. WHITE:** The county -- the county is  
21 involved because since the records are  
22 currently on county property in a warehouse,  
23 we'll have to get their permission and we've  
24 been given their permission to use county  
25 property for the decontamination process,

1           decontamination with regards to Hantavirus.  
2           The records will be moved from this county  
3           warehouse into transportainers, which will  
4           remain on county property for the 21-day period  
5           that the decontamination is taking place. So  
6           we did have to get approvals and permits from  
7           them.

8           The Medical Center is working with us as well.  
9           It sort of -- it's definitely more than just  
10          DOE and Los Alamos involved. We're working  
11          with NIOSH. NIOSH is going to provide people  
12          to help with the review, and they've provided  
13          the protocol for the decontamination of the  
14          records with regard to Hantavirus.

15          **MS. MUNN:** No real roadblocks there,  
16          everybody's going to --

17          **MS. WHITE:** No, no, I don't see any roadblocks  
18          in terms of --

19          **MS. MUNN:** Thank you.

20          **MS. WHITE:** -- any of the parties we're working  
21          with.

22          **DR. ZIEMER:** Thank you very much, Libby.

**SCIENCE AND OVERARCHING TECHNICAL ISSUES UPDATES**  
**DR. JAMES NETON, NIOSH/OCAS**

23                 We want to return to our regular agenda here  
24                 for now, and we're going to ask Jim Neton if he

1 would come and make his presentation. Jim.

2 **UNIDENTIFIED:** Excuse me, Dr. Ziemer, may I  
3 make one comment about the Mound records?

4 **DR. ZIEMER:** Yes, a comment --

5 **UNIDENTIFIED:** Very briefly.

6 **DR. ZIEMER:** -- about the Mound records, and  
7 identify yourself. This gentleman has --

8 **UNIDENTIFIED:** Yes.

9 **DR. ZIEMER:** -- worked at Mound for a number of  
10 years.

11 **MR. SHEEHAN:** My name is Warren Sheehan. I was  
12 an employee at the Mound Center or Mound Lab  
13 for 33 years. The first 16 years was in health  
14 physics. I had responsibilities in survey.  
15 Most of the time, though, I was in dosimetry.  
16 And I am somewhat familiar with the records  
17 there, and I just want to make a firm statement  
18 that as far as I know -- now keep in mind, I  
19 left health physics in 1972, so what happened  
20 after that, I don't know. But from the  
21 practices that we had initially, there's no way  
22 I could understand that the records were ever  
23 contaminated -- health records. And if they  
24 were contaminated, they were contaminated after  
25 they left Mound --

1           **DR. ZIEMER:** Well --

2           **MR. SHEEHAN:** -- period.

3           **DR. ZIEMER:** Thank you. There's actually two  
4 sets of records. The ones which they're  
5 referring to that were contaminated are the Los  
6 Alamos ones. The Mound ones -- it's suspected  
7 that they've been buried in a contaminated  
8 site.

9           **MR. SHEEHAN:** Site, right.

10          **DR. ZIEMER:** So the records themselves may not  
11 have been contaminated, we don't -- I don't  
12 think we know that, do we?

13          **MR. ELLIOTT:** We do know that.

14          **DR. ZIEMER:** Oh, we do know that? Okay. Let  
15 me --

16          **MR. GIBSON:** Paul?

17          **DR. ZIEMER:** Yeah, hang on, Mike.

18          **MR. ELLIOTT:** We do know that they -- the Mound  
19 records -- some of the Mound records were  
20 contaminated. In fact, I believe Cheryl  
21 Kirkwood -- her name's been mentioned here  
22 already -- who worked at -- for Mound and DOE  
23 at the time as a records manager, was involved  
24 in -- she and several others, as we understand  
25 it, listening to her, were involved in scanning

1 radiation-contaminated records in some elevator  
2 vault that they sealed off for that purpose so  
3 that they could -- they could get it -- capture  
4 the images of those contaminated records and  
5 make a non-contaminated record. And the  
6 contaminated portion of that 450 boxes were  
7 moved and buried to -- in -- in Los Alamos.

8 **DR. ZIEMER:** So that -- that explains why they  
9 were buried then in a low level waste site, so  
10 apparently were -- somehow got contaminated.

11 **MR. SHEEHAN:** The records, in and of  
12 themselves, I can hardly believe were  
13 contaminated. Maybe the boxes -- in other  
14 words, after it was boxed up and stored in an  
15 area during all the demolition work -- you  
16 know, dust on them, somebody come along with an  
17 alpha meter and say, hey, these are  
18 contaminated.

19 **DR. ZIEMER:** Well, however --

20 **MR. SHEEHAN:** Who knows.

21 **DR. ZIEMER:** Yeah, thank you. Mike --

22 **MR. GIBSON:** Dr. Ziemer?

23 **DR. ZIEMER:** Yeah. Last comment on this and  
24 then we're going ahead. Go ahead.

25 **MR. GIBSON:** Yes, as far as -- as far as what

1 I've uncovered and read, some of the boxes were  
2 stored in T -- technical building and had some  
3 low level radiation. There were also several  
4 boxes stored in the records management area,  
5 which was a non-contaminated building, non-  
6 posted building as far as radiological reasons.  
7 Those boxes I personally witnessed being  
8 transported out of that building and put into  
9 the radioactive LSA boxes and onto a semi and  
10 shipped to Los Alamos. And a number of those  
11 boxes have health physics records, incident  
12 records and the records that were -- were  
13 contaminated were log-- health physics surveyor  
14 logbooks. So you know, one of my questions is  
15 how did a health physics surveyor's logbook get  
16 contaminated if in fact there were not poor  
17 radiological controls.

18 **DR. ZIEMER:** Okay. Well, right now we have to  
19 consider that as a rhetorical question which we  
20 can't answer --

21 **MR. GIBSON:** Absolutely.

22 **DR. ZIEMER:** -- but yeah. Thank you. We're  
23 going to move on now to the presentation on  
24 science and overarching technical issues, Dr.  
25 Neton. Glad to have Jim with us.

1           **DR. NETON:** Good morning. I'm really pleased  
2 to be here addressing the Board after a -- I  
3 think missing the last couple of meetings and  
4 it's my pleasure to be here and present the  
5 update on the science/technical issues. It's  
6 been -- sort of become a standard agenda item  
7 on -- on the Board's -- at the Board's meetings  
8 as of late.

9 I think at the -- at the last meeting that I  
10 missed -- it was held in Las Vegas -- a little  
11 bit of confusion arose in the presentation as  
12 to what we really consider to be the relevant  
13 scientific and technical issues that we are  
14 tracking within -- within NIOSH. And I -- I  
15 presented briefly on this at the Board's  
16 conference call -- the last conference call,  
17 but I'd just like to sort of go over this a  
18 little bit more in some additional detail.  
19 The issues that we're tracking really now  
20 encompass two main topic areas. One is those  
21 that are evaluated -- that were originally  
22 determined by the Board's working group on IREP  
23 and scientific issues that -- I went back in  
24 the transcripts and figured out that that  
25 convened back in February, 2005, so it was

1           about two years ago we held that meeting. And  
2           if you recall, it was sort of a consolidation  
3           of the Board's -- what the Board considered to  
4           be relevant science issues and what NIOSH  
5           considered to be relevant science issues. The  
6           two -- the two were merged and consolidated  
7           into seven issues that were identified.  
8           At that time SC&A was not real far into the  
9           dose reconstruction issue, so by the nature of  
10          the -- of the review, where -- where we were,  
11          almost all those issues were related to risk  
12          model calculations. That is, IREP and  
13          calculations associated with the risk models.  
14          Subsequent to that, and SC&A has been doing a  
15          lot of dose reconstruction reviews, site  
16          profile reviews, a number of overarching  
17          technical issues have been identified that are  
18          really relevant to dose reconstruction  
19          themselves. SC&A is not specifically going out  
20          and looking at the risk models. They were  
21          identified during the review process, and --  
22          and again, those are dose reconstruction-  
23          related, so there's sort of a separate list,  
24          but they were identified at least at one site  
25          and determined to be relevant at multiple --

1                   potentially multiple sites.

2                   So I'm going to speak to both of these -- these

3                   lists and briefly go over the -- what I call

4                   the IREP and scientific issues, where we are

5                   with these seven issues, and then go into the

6                   overarching science issues and try to present

7                   at least some status -- an update on a couple

8                   of issues where we've made progress. I know a

9                   lot of these presentations have been here is --

10                  we're working on these things, and it's my

11                  intent as we go forward with these

12                  presentations to at least provide some status

13                  report on where we've made some progress.

14                  The seven issues that you see on the slide

15                  here, the IREP and scientific issues, are not

16                  new. They've been there for some time.

17                  The incorporation of worker -- nuclear worker

18                  studies into the epidemiological analysis; that

19                  is how relevant are the Hiroshima and Nagasaki

20                  studies compared to some of the studies that

21                  have been done at DOE sites relevant to

22                  internal exposures, particularly for actinides,

23                  that sort of thing.

24                  The smoking adjustment for lung cancer we'll

25                  talk about.

1 The Board also identified the grouping of rare  
2 and miscellaneous cancers as an issue.

3 The relevance of the age at exposure, there's  
4 been some studies that have shown that the risk  
5 model may be different depending upon what age  
6 you were exposed at in the workforce. That is,  
7 older workers may be more compromised by  
8 radiation exposures than younger workers.  
9 Interaction with workplace exposures; that is  
10 are there synergistic interactions with  
11 chemicals and other agents in the workplace  
12 with radiation that would make the cancer more  
13 likely.

14 One that we've been working on quite a bit, the  
15 addition of the chronic lymphocytic leukemia to  
16 the covered cancers, at least the evaluation of  
17 that, should we add that.

18 And then finally the dose and dose rate  
19 effectiveness factor adjustment, and I'll  
20 briefly go over each of these issues.

21 The nuclear studies we've been working on for  
22 quite some time now, and you see identified on  
23 the slide here three phases that -- three  
24 phases of this work. Phase one, which is  
25 underway and is essentially complete actually

1 right now, is the collec-- the nuclear --  
2 evaluate the quantity and quality of the data  
3 available. There are a lot of studies out  
4 there. Brant Ulsh took this on when he first  
5 joined the science staff in OCAS, and he has  
6 done an excellent job of assembling a little  
7 over 200 studies that specifically deal with  
8 radiation exposure and risk in the nuclear  
9 workforce.

10 The second phase is to -- is to move into the  
11 evaluation of the feasibility of some meta-  
12 analysis. Each study in and of itself might  
13 not be complete enough to come to some firm  
14 conclusions as to what the risk adjustments  
15 might be for the nuclear workers. But taken in  
16 -- in a conglomerated fashion with a meta-  
17 analysis, we may be able to make some more  
18 conclusive -- arrive at some more conclusive  
19 opinions.

20 I -- I would like to point out, we do have a  
21 new member on our staff, that's Dr. Maxia Dong,  
22 and she's -- this is one of the first projects  
23 that she's heading up for us. Maxia's standing  
24 at the back of the room there -- wave your hand  
25 so everybody can see you. Dr. Dong comes to us

1 by way of CDC in Atlanta, with over 20 years  
2 experience. She holds both an M.D. degree and  
3 a Ph.D. in epidemiology, and we're really  
4 looking forward to her contributions on this  
5 project. She's made a lot of -- lot of good  
6 inroads already. There are two -- two  
7 particular areas where Dr. Dong will be  
8 working. One is in this meta-analysis area and  
9 the other one we've tasked her with is -- is  
10 working on the chronic lymphocytic leukemia  
11 model that we'll talk about in a little bit.  
12 And the meta-analysis we're undertaking right  
13 now and Dr. Dong is working on that, and then  
14 phase three will be to compare any findings  
15 with the analysis of the IREP cancer risk model  
16 groupings, are they significantly different,  
17 have the meta-analyses, you know, revealed  
18 something that we need to take into  
19 consideration and modify IREP itself to be more  
20 of an occupational -- occupational data risk --  
21 risk base.

22 The smoking adjustment/lung cancer issue we --  
23 we vetted with the Board some time ago. In a  
24 sense we combined the lung cancer risk models  
25 from the NIH-IREP and the NIOSH-IREP in the

1           sense that the NIH-IREP calculated the  
2           adjustments for smoking somewhat differently,  
3           based on the Pearson\* analysis. And based on  
4           solicitation of expert opinions and internal  
5           deliberation within NIOSH and SENES, our -- our  
6           risk assessment contractor, essentially, we had  
7           made the decision to use both models  
8           simultaneously, if you recall. Run both  
9           models, and the model that delivered a higher  
10          probability of causation calculation would be  
11          the one that would be used in the analysis.  
12          We've done that on -- we adopted that in  
13          February, 2006. We are now going through, as  
14          we will for any of these type of changes, going  
15          back and looking at previous cases that have  
16          been denied by the Department of Labor to make  
17          sure that the change in this model did not  
18          necessarily affect their outcome or their --  
19          their decision. We've identified over 900  
20          prior lung cancer cases that needed to be  
21          reworked. Fortunately this is a computerized  
22          setup. You run both models and compare the  
23          analyses. It's somewhat tedious, but not as  
24          bad as redoing an entire dose reconstruction  
25          because it only involves the risk model

1 calculation. And thus far -- we're almost  
2 finished with this; I think we're within a  
3 matter of a week or two away from completing  
4 this entire analysis -- and the -- the final  
5 result was there's minimal impact on any  
6 compensation outcomes. So there'll be a few,  
7 but out of 900 cases, we were actually somewhat  
8 surprised that the impact was as small as it  
9 was in this issue.

10 The Board did pass a motion at the time that we  
11 adopted these two lung models to instruct us  
12 that we should keep looking at these models to  
13 see if any new evidence warrants change in the  
14 future. That is, do we want to keep running  
15 these two models simultaneously or eventually  
16 would we feel comfortable in adopting a single  
17 approach, and we'll continue to look at that.  
18 As far as the background cancer incident rates,  
19 we have -- we're going to review that in  
20 conjunction with the IREP cancer grouping  
21 adjustments that I'll talk about later.

22 And that is the next slide, grouping of rare  
23 and miscellaneous cancers. It was the sense of  
24 the Board, and NIOSH as well, that you know,  
25 some of these groupings might need to be re-

1           evaluated to see if they made sense to be put  
2           in different pots, so to speak. We -- we met  
3           with SENES, our contractor, several times on  
4           this issue in 2005/2006 to try to see what it  
5           makes sense to do. In addition to the general  
6           cancer groupings, we also reviewed our IREP's  
7           all male genitalia model, which includes  
8           prostate cancer. So you have -- the reason  
9           these are grouped is there was a decision made  
10          by those developing the risk models that we  
11          needed at least -- I think it's 50 cancers to  
12          have enough statistics to be able to come up  
13          with a risk model. So to get 50 cancers in  
14          certain groups, one needed to group types of  
15          cancers, essentially by biological endpoint, to  
16          get some statistical power on these -- these  
17          analyses.

18          We've looked at these. The question is if any  
19          grouped cancers could be separated out and  
20          modeled individually -- you know, can we do  
21          that; and then what would the effect be. And  
22          the end result is the effect would be somewhat  
23          variable -- some increase in PC, some decrease  
24          in PCs. We also need to look at where we are  
25          with the -- the groupings. The way these were

1 grouped, for example, prostate cancer is  
2 included in the all male genitalia group. If  
3 we were to pull it out, then that would  
4 seriously affect the risk model for all male  
5 genitalia, and now you have two models. Do you  
6 leave the prostate cancer in that total group  
7 and pull it out and model it separately -- you  
8 know, how do you handle that and -- and make it  
9 equitable for all parties, and we're wrestling  
10 with those types of ideas right now. The  
11 consensus at this point, though, is we're --  
12 we're going to continue to review this and  
13 we're going to do this in conjunction with our  
14 evaluation of the BEIR VII findings that have  
15 come out fairly recently.

16 Okay, I've summarized the last four on one --  
17 one slide here, the other IREP topics. The age  
18 at exposure, we have decided to review that in  
19 conjunction with our BEIR VII review, which is  
20 ongoing with SENES Oak Ridge at this time.

21 The interaction with other workplace exposures,  
22 we originally looked at this in some detail,  
23 and there's -- there's a real paucity of data  
24 out there to inform us on these synergistic  
25 risk models, just the interacti-- just modeling

1 the radiation alone is difficult enough. When  
2 you start entering synergistic interactions  
3 with chemicals such as benzene and asbestos and  
4 others, it -- it becomes a statistical morass,  
5 but we are looking at that at this time, though  
6 we are not actively pursuing this.

7 Chronic lymphocytic leukemia remains in a  
8 predecisional stage. We -- we -- I reported  
9 before that we have a prototype CLL risk model,  
10 we're reviewing it. Dr. Dong is looking  
11 through it at this point. One issue that we  
12 need to determine, though, is what is the  
13 appropriate target organ for dose  
14 reconstruction. It would seem intuit-- it  
15 would seem intuitive obvi-- intuitively obvious  
16 at the beginning that one would just pick the  
17 red bone marrow as the dose reconstruct-- organ  
18 to dose reconstruct for chronic lymphocytic  
19 leukemia. It's not necessarily the case.  
20 There is some lymphatic tissue involvement  
21 here. So then if one needs to reconstruct the  
22 lymphatic dose versus the red bone marrow dose,  
23 it can make huge differences in the end result  
24 for the claimant. We've asked Dr. Dong to work  
25 with scientists in this area to try to come to

1           some conclusion on this. It turns out it's not  
2           obvious. We've asked -- we've gone through a  
3           number of scientific publications. We've  
4           polled a few practitioners, a hematologist and  
5           such, and there does not seem to be a  
6           definitive answer that we can put our finger on  
7           at this time, but -- but we are working towards  
8           that.

9           Dose rate/dose rate effectiveness factor, SENES  
10          Oak Ridge has completed an extensive review of  
11          the IREP assumptions and distributions. That  
12          is, they brought their review of the literature  
13          up to the current date. We're going to review  
14          this pending looking at the new Radiation  
15          Effects Research Foundation data and the BEIR  
16          VII data.

17          But I will say that SENES has put together a  
18          fairly nice comprehensive overview of this  
19          DDREF issue that's been submitted for  
20          publication in *Health Physics* and should be  
21          coming out in the very near term. That's a  
22          shortened version; I think the *Health Physics*  
23          version may be 20 to 30 pages. We also have a  
24          250-page document that summarizes it in quite a  
25          bit of detail.

1 I just summarized here on this slide the four  
2 changes that we've made to the NIOSH-IREP model  
3 since the inception of the program by year.  
4 You might recall in 2003 we modified the  
5 leukemia and thyroid models to confer some risk  
6 down to zero years post exposure. I think in  
7 the beginning we had a -- it was all or  
8 nothing. It was zero risk and then there was  
9 some risk conferred, and now this is more  
10 consistent I think with what we do with solid  
11 tumors where we have an S-shaped curve that  
12 ramps up over time. It's almost zero at -- at  
13 the exposure period, and then it kind of ramps  
14 up in an S-shaped fashion. That was added.  
15 We removed the risk reduction factor for  
16 thyroid cancer for exposures prior to age 20.  
17 That had to do with modeling of the -- of the  
18 risk related to medical exposures. If you  
19 recall, a lot of the thyroid cancers were  
20 modeled using medical exposure criteria and  
21 those involved X-rays. One has different  
22 quality factors for the X-rays versus high  
23 energy gammas. So we've gone back and looked  
24 at that and the risk reduction was taken out.  
25 I think all these have been discussed with the

1 Board in the past.

2 Again in 2005 we modified the latency  
3 adjustment for bone cancer to reflect a shorter  
4 latency. We -- it was our opinion that that  
5 latency period needed to be shortened somewhat.  
6 And then as I talked -- I just discussed, we  
7 implemented the combined lung cancer risk model  
8 by adding the alternative NIH lung model in  
9 2006.

10 Thus far for each of these four changes,  
11 they've all been claimant favorable in the  
12 sense that there's been no reduction in  
13 probability of causation for any possible set  
14 of inputs for any claimant, so they've all been  
15 to the benefit of the claimant so far.

16 Okay, that sums up the -- what I call the risk  
17 model changes.

18 The overarching issues list -- I think the last  
19 time I talked to the Board about this, we had  
20 eight issues. We're now up to ten. Most of  
21 these you've seen before. I've identified the  
22 issue, as well as I've tried to pick out where  
23 the issue was first identified and what reviews  
24 -- what prompted us to add this issue or to  
25 become aware of this issue. Most of these, as

1           you can see, were related to, you know, the  
2           Board's review process with SC&A.  
3           It's no surprise, I think, that the oro-nasal  
4           breathing and workplace ingestion came out of  
5           the Bethlehem Steel site profile review. Hot  
6           particles was identified in NTS.  
7           Non-standard external exposures, that is  
8           exposures to different geometries, the badges  
9           worn on the chest. And as we heard yesterday,  
10          I think someone from Fernald was commenting if  
11          your head's inside a piece of equipment, how --  
12          how accurate is that reading on the badge. At  
13          Mallinckrodt it -- it was brought up by SC&A  
14          and we've -- we've fixed this already, at least  
15          for Mallinckrodt, that if you're working in a  
16          contaminated area of a planar source, we now  
17          have corrections to adjust for the planar  
18          source to the effect it has on the badge.  
19          I think these two, assumptions for unmonitored  
20          workers and cohort badging -- my original  
21          reaction was Ames, and then I -- the more I  
22          thought about it, it actually was Iowa, the  
23          Iowa Army Ammunition Plant is where these two  
24          issues first surfaced. I had Iowa on my mind,  
25          but got the wrong site.

1 Interpretation of unworn badges -- that is  
2 people who left their badges in the locker,  
3 that sort of thing -- was first brought up in  
4 our Hanford review.

5 Tracking of materials throughout the complex  
6 was something that Brad Clawson on the Board  
7 brought up in the deliberations -- I think it  
8 was the NTS site profi-- no -- yeah, it had to  
9 do with NTS and the RaLa, the radioactive  
10 lanthanum that was -- was present at Los Alamos  
11 but it was manufactured at -- at INEEL, and we  
12 are now tracking that -- we're now trying to  
13 put together a position so that we make sure  
14 that when we identify these unique sets of  
15 exposures, the material must have come from --  
16 us-- typically came from some other source,  
17 whether it be Y-12 or Los Alamos or whatever.  
18 We want to make sure we close the loop on these  
19 unique exposure scenarios. This happened at  
20 Rocky Flats most recently where we had thorium  
21 surrogate parts shipped from Y-12 over to Rocky  
22 Flats for testing and we -- we need to go back  
23 and make sure that the Y-12 site profile talks  
24 about those thorium parts.

25 The two that I've added to the list since the

1 last time we talked are the internal dose from  
2 super -- super type S plutonium, which was  
3 originally brought up in the Rocky Flats  
4 profile. It's now become a complex-wide issue  
5 and I -- I will report briefly on the status of  
6 that, and I think we've got a good solution to  
7 this problem.

8 And this issue, thoriated welding rods, just  
9 emerged at the last Rocky Flats working group  
10 meeting -- that's a very productive working  
11 group; to add things to our list, anyways --  
12 has to do with welding rods themselves. Not  
13 all of them, but many of them contain a certain  
14 amount of thorium, sometimes three to four  
15 percent thorium -- I assume by weight -- and  
16 consuming those welding rods doing your job, of  
17 course, you generate a -- some potential for  
18 exposure. So the workers -- this came out at  
19 the meeting. We agreed that this is not just a  
20 Rocky Flats issue. Welding occurred at --  
21 throughout the complex. We're going to  
22 investigate this issue and -- and make -- see  
23 what we need to do, if anything, to amend our -  
24 - our treatment of exposures to particularly  
25 construction type workers or trades workers who

1           were involved in welding operations.  
2           Thus far it's kind of a mixed bag on that. The  
3           -- turns out that the Nuclear Regulatory  
4           Commission exempts thoriated welding rods from  
5           regulation, which kind of leads you to believe  
6           that the potential exposure's probably pretty  
7           low, but it's certainly not going to be zero.  
8           So we need to -- we need to figure out how to  
9           meld this into our system somehow and deal with  
10          it.

11          Okay, I'm going to go over the two issues  
12          related to Bethlehem Steel, oro-nasal breathing  
13          and ingestion, and then talk about super S.  
14          These are three areas where I think we've made  
15          some progress and I'd just like to -- to throw  
16          out there for the Board's knowledge.  
17          We've been working on this oro-nasal breathing  
18          issue for quite some time. I think you all  
19          know that we've asked -- tasked EG&G to work on  
20          this for us. They've completed a literature  
21          search as of last month. They've collected  
22          more than 80 publications that were identified,  
23          collected and reviewed. Interestingly, there -  
24          - there were some very good publications they  
25          gleaned from the literature, directly

1 applicable to steel mill environments. We did  
2 not have knowledge of these things when we were  
3 first doing the Bethlehem Steel site profile.  
4 And it also includes some very good estimates  
5 of work practices and ventilation rates. That  
6 is, they went through and actually measured  
7 steel workers doing different -- doing  
8 different operations.

9 As a result of that, we're not -- we're going  
10 to not only evaluate the oro-nasal breathing  
11 issue, which is what percentage of the worker  
12 breathe through their mouths and do they get  
13 higher exposures, but also the appropriateness  
14 of the default ventilation rates, particularly  
15 in a steel mill environment. As you may or may  
16 not know, the -- as the ventilation rate -- the  
17 breathing rate increases, the difference  
18 between oro-nasal breathing and regular  
19 breathing diminishes. In other words, the  
20 heavier you breathe, the more people breathe  
21 through their mouth anyways, so we need to look  
22 at that in context of how that plays out at a  
23 steel mill environment where people are  
24 breathing heavily anyways and look at the  
25 delta. There is no doubt in our mind that --

1           that breathing through the mouth definitely, in  
2           many circumstances, can deliver a higher dose  
3           per unit, you know, intake to the worker  
4           because you're not filtering out through the  
5           nasal passages.

6           We're getting very close on that. I think the  
7           last time I presented we were hoping to be done  
8           by the end of January. We're now projecting  
9           this will be done by the end of February.

10          Workplace ingestion is another one of those  
11          issues that we debated pretty -- pretty heavily  
12          with SC&A. There's many publications out  
13          there, particularly from the EPA, that talk  
14          about sort of ancillary ingestion from -- you  
15          know, in the -- in the home environment and  
16          thereabouts from fields -- you know,  
17          environmental kinds of ingestion as opposed to  
18          occupations. There are -- there are very few  
19          studies out there that deal specifically with  
20          occupational ingestion, so we're kind of  
21          pushing the envelope forward here in this area.  
22          EG&G was able to pull out 35 what we consider  
23          to be directly applicable references. We --  
24          we've got a model structure in place now that  
25          we're going to use. It's going to be initially

1 applicable only to uranium because that's where  
2 we've got the most data. Uranium tends to be -  
3 - have been distributed the most -- the most  
4 contamination, just being the heavy metal that  
5 it is, as opposed to plutonium and those types  
6 of nuclides, so it's easier to model. And this  
7 model's going to be based on the coefficients  
8 and transfer factors that we found in this --  
9 in this literature review. And of course we're  
10 going to do our best to incorporate the  
11 uncertainty in the model itself. And again, we  
12 predict this is hopefully going to be finished  
13 by the end of February as well.

14 I throw out here just a -- a starting point for  
15 the ingestion model. It's -- it's a fairly  
16 simplistic box model. You can go through it  
17 yourself, but it -- sort of a two-way, you  
18 know, intercompartmental transfer model that  
19 one can model if you've got the right  
20 coefficients and the surface areas and that  
21 sort of thing. One thing that might be missing  
22 here that we need to add, and this is something  
23 that we debated a long time with SC&A, is to  
24 what extent can you model airborne -- airborne  
25 concentrations in the plant depositing on the

1 surfaces. And we feel we can do that. We've  
2 got some data to incorporate that.  
3 Our intent is to develop this model and then  
4 semi-- empirically validate it to the extent  
5 possible, relying on some bioassay results that  
6 we've -- we have from -- from places like  
7 Fernald and other uranium facilities where one  
8 can speculate how much did the person ingest,  
9 and you can look at the urine and see if that  
10 actually does bound your -- your analyses.  
11 Okay, super S. I think this is a really  
12 interesting story. It's the last one I want to  
13 talk about today, but the original lung model,  
14 the ICRP-30 lung model, had clearance half-  
15 times which combined both solubility and  
16 mechanical clearance from the lung. There's  
17 only two ways you can get material out of the  
18 lung when you breathe it in. You either --  
19 dissolves in your lung, gets in your  
20 bloodstream, or it's mechanically cleared and  
21 swallowed.  
22 The new lung model separated those two, and now  
23 you have a solubility component and a clearance  
24 component that can be modeled separately. In  
25 the ICRP-66 model this type S, so-called slow -

1           - there's a F, M, S, fast, medium and slow,  
2           there's nothing tricky about those  
3           designations. Slow is the default model and  
4           it's the default for what we -- what's  
5           considered very sparingly soluble material.  
6           Well, it turns out that if you look across the  
7           complex, and Rocky Flats is a good poster child  
8           for this, there are forms of plutonium that  
9           dissolve much more slowly than anything super -  
10          - anything type S would -- would predict.  
11          The reasons for that are really unclear. It's  
12          not -- it's not necessarily that the material  
13          is more soluble -- or less soluble. It may be  
14          that it's -- there's physiologic damage done to  
15          the lung. There may be that there's unique  
16          cases out there of people who have differential  
17          clearance that are different than the normal  
18          population. It's not really clear why this  
19          material stays where it does. Nonetheless, we  
20          have very good evidence of -- of this type of  
21          material being in existence. Those that were  
22          involved in the 1965 Rocky Flats fire are a  
23          good example. But it's not just rela-- not  
24          just confined to fire workers, which is  
25          originally what we thought. Now there's --

1 anyone working with plutonium in the oxide form  
2 has a potential to have inhaled this very  
3 insoluble plutonium.

4 We also have evidence from the U.S.  
5 Transuranium and Uranium Registries where  
6 they've looked at autopsy tissue and found more  
7 plutonium in the lungs than would have been  
8 predicted, based on the standard models.  
9 There's also evidence out there -- as I  
10 mentioned, the USTUR, but the Mayak facility,  
11 which is the Russian equivalent to Hanford.  
12 There are a number of people there with large  
13 amounts of plutonium in their lungs, and this  
14 is where they speculate that it might be  
15 related to fibrotic lesions being created by  
16 the high specific activity of the plutonium  
17 irradiating the lung and just -- just causing  
18 physiologic tissue damage and making it less --  
19 less capable of -- of removing the particulate.  
20 Then again this just talks about how some --  
21 some of these may be bound to the lung and are  
22 not cleared by physical means.

23 We took all these issues and -- and we said  
24 well, our current approach might not be as  
25 claimant favorable as we thought using super --

1           using S. So we developed this OTIB-49, which  
2           estimated -- which is titled "Estimated Lung  
3           Doses from Plutonium Strongly Retained in the  
4           Lung." That relied on cases from Rocky Flats  
5           and Hanford. There were I think nine cases  
6           from Rocky Flats and one from Hanford that were  
7           selected because they had exhibited this very  
8           long retention time in the lung and they were  
9           fairly well documented with bioassay. It turns  
10          out that there were two cases out of those ten  
11          design cases that really stood out among the  
12          other ones as being extremely insoluble  
13          compared to the others, and those were selected  
14          to develop the -- the new approach for -- for  
15          analyzing super S.  
16          And essentially we're not developing a new  
17          model here because the models are the models.  
18          We have tried to develop a bounding scenario  
19          that we could use based on these very insoluble  
20          cases to bound what a person's exposure could  
21          be for any organ, not just the lung -- the  
22          lung, the systemic organs, the tracheal-  
23          bronchial lymphs nodes, the GI tract -- all  
24          those organs need to be -- be assessed in some  
25          way. It turns out that it's not just

1 solubility that drives this. It's kind of  
2 interesting. You can -- you can turn off --  
3 you can make the insol-- make the chemical  
4 dissolution infinite in the sense it's not  
5 leaving the lungs by chemical means, and the  
6 mechanical transport portion of the ICRP model  
7 will still clear it faster than -- than what's  
8 -- what's your -- observed, so there's clearly  
9 something else going on besides just  
10 solubility.

11 Anyway, we took these ten design cases, took  
12 the two highest of the design cases -- that is  
13 the case from Hanford, Hanford -- so-called  
14 Hanford-1 and Rocky Flats-874 -- and used those  
15 to model -- to predict what the exposures would  
16 be to workers if they were exposed to that type  
17 of plutonium. We have developed a series of  
18 factors and tables that are in this document.  
19 It's about a 50-page TIB that goes through and  
20 provides in some detail what the projected  
21 exposures were.

22 I just -- I give you a little bit of a -- a  
23 snapshot into how -- how this works. If one  
24 looks at the bottom curve here, the green curve  
25 I think it is, that's what would one predict if

1           it was just a normal -- this is excretion of  
2           the urine over time, days post-intake. The  
3           green curve is what you would predict coming  
4           out in the urine from zero to 18,000 days --  
5           that's 50 years -- from -- if it was purely  
6           type S material.

7           The blue curve and the red curve represent the  
8           two most insoluble cases, HAN-1 and Rocky  
9           Flats-872. And if one takes the sup-- type S  
10          material and multiplies it times -- multiplies  
11          it times four, you get this upper curve, and  
12          that's what we believe is a bounding analysis  
13          to assign these workers as far as excretion  
14          goes. So we would take and analyze for type S  
15          and then multiply it times a factor of four and  
16          assume, over all time periods, we've bounded  
17          that person's excretion, even though in these  
18          later years we're over-predicting a little bit.  
19          We just don't know the model is that robust and  
20          that accurate to be able to just, you know,  
21          pick these differences over every time  
22          interval. It became somewhat cumbersome so we  
23          just adopted a factor of four, and this is for  
24          a chronic exposure scenario.

25          The next one represents what would be predicted

1           for an acute, and again a factor of four bounds  
2           the expected excretion at all times, except for  
3           this little blip in the beginning for an acute  
4           intake, which we feel we can handle in incident  
5           situations separately.

6           So that's pretty much what we have for the  
7           OTIB-49. That has been issued and it's -- it's  
8           being applied complex-wide. It's not just for  
9           Rocky Flats. It would be used at places like  
10          Savannah River, Los Alamos, Hanford -- Savannah  
11          River, I guess that's about it.

12          And this is a summary of one of the tables  
13          right out of there, which is how the  
14          adjustments are made. You see the factor of  
15          four for urine analysis, and these Table B  
16          adjustments are just adjustments for the lung,  
17          how much was in the lung. You do a normal type  
18          S calculation, and then the adjustment factor  
19          for the dose to the lung is provided in these  
20          tables out to 65 years post-intake.

21          We think it's a pretty -- a pretty interesting  
22          approach to this. I don't think anybody's ever  
23          done anything close to this before, and I think  
24          it's a very unique solution to a somewhat  
25          difficult problem.

1 And that's all I have to say.

2 **DR. ZIEMER:** Thank you, Jim, for that update.  
3 Could I ask about the ingestion model where it  
4 implies at least that the surfaces you're  
5 looking at are things like tables and so on.  
6 What about floors and resuspension from walking  
7 and subsequent inhalation as opposed to  
8 contaminated hands and so on? Is that a  
9 separate thing that --

10 **DR. NETON:** That's a separate issue. That  
11 would -- the resuspension would contribute to  
12 the surface contamination itself --

13 **DR. ZIEMER:** Right.

14 **DR. NETON:** -- and then you eat it, but there's  
15 also a -- an inhalation component of the  
16 resuspension model that -- that we --

17 **DR. ZIEMER:** Right, that's --

18 **DR. NETON:** -- we're working on.

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

20 **DR. NETON:** That would be separate and apart  
21 from this one.

22 **DR. ZIEMER:** This is on-- you're only looking  
23 at the --

24 **DR. NETON:** Contamination transfer from --

25 **DR. ZIEMER:** -- tabletop and --

1           **DR. NETON:** -- the hands to the mouth.

2           **DR. ZIEMER:** -- hands and so on in this  
3 particular one. Right?

4           **DR. NETON:** Right. It turns out that in most  
5 of these actinide exposure scenarios the dose  
6 from the ingestion pathway is fairly small, but  
7 it's not zero so we need to definitely address  
8 it. This is one of the main omissions we had  
9 when we first started doing this was we -- we  
10 assumed it was negligible and it's -- it's not  
11 exactly negligible, but it's not huge, either.

12           **DR. ZIEMER:** Dr. Roessler and then Dr. Melius.

13           **DR. ROESSLER:** I have a couple of comments and  
14 a couple of questions. My first comment is on  
15 your slide that talks about the grouping of  
16 cancers, and I think it was the very first  
17 meeting of this Board where this topic came up,  
18 and I think there was some concern at that time  
19 as to whether the groupings were correct or  
20 not, so that's a long time. And I think also  
21 at that meeting the emphasis was given on using  
22 the very best science in this project. And we  
23 talk about so many other things, all very  
24 important things, but I'm glad to see that  
25 NIOSH is still continuing to -- to address the

1 best science. So I -- I think that's a -- a  
2 good thing to be following.

3 I do have a question on that one, though, and  
4 what is -- and I haven't read BEIR VII, I have  
5 to admit that. Does BEIR VII group -- or do  
6 they have groupings that will shed some light  
7 on this?

8 **DR. NETON:** Not necessarily groupings, but  
9 individual comments on certain risk models that  
10 we might be able to look at and pull them out  
11 separately. I -- I've forgotten the exact --  
12 they didn't model all that many organs, but  
13 there -- there's a number that we can go in and  
14 look at and see how they might -- they might  
15 play out, but I haven't looked at that in a  
16 while myself, either, to be honest.

17 **DR. ROESSLER:** The other area that I wanted to  
18 comment on or ask a question about is with  
19 regard to chronic lymphocytic leukemia. And  
20 again there, I think this is using the best  
21 science possible and I'm a bit out of date on  
22 that, but I don't know of any reference to or  
23 relationship between CLL and radiation. I'm  
24 pleased to see you have an MD/PhD on board and  
25 she's smiling; apparently she knows of some

1 more recent information. I -- what I've read  
2 is that there is a relationship between CLL and  
3 insecticides and herbicides and there may be a  
4 family disposition toward it, but is there new  
5 information that there is some relationship  
6 with radiation exposure?

7 **DR. ZIEMER:** Jim, do you have a --

8 **DR. NETON:** Well, I don't know if Maxia wants  
9 to speak to this or not, she's fairly new on  
10 the staff --

11 **DR. ZIEMER:** Well, (unintelligible) --

12 **DR. NETON:** -- but there are -- there are a few  
13 studies that -- that make some linkage. Of  
14 course one -- one study in itself doesn't  
15 necessarily become conclusive.

16 **DR. MCKEEL:** (Off microphone) (Unintelligible)

17 **DR. NETON:** Steve Wayne\*, but that was a review  
18 -- essentially the -- the opinion -- it comes  
19 down on the side of -- it's not that you can't  
20 -- not that CLL is not related to radiation,  
21 you can't prove it isn't. Okay? And then --  
22 then you have -- you get in the position of  
23 saying is there a different mechanism that  
24 radiation would work on CLL that's different  
25 than all other radiation-induced cancers. And

1 we solicited expert opinions on this, five  
2 different expert opinions, and the cons-- the  
3 consensus among those was that you can't. You  
4 can't say that the biological damage done by  
5 ionizing radiation that caused CLL could be any  
6 different than any other radiogenic cancer.  
7 It's just the power in these statistical tests.  
8 CLL is such a -- it's so hard to pick up in the  
9 population, partly because the diagnosis was  
10 pretty poor early on, but the statistical --  
11 statistically you can't show an association,  
12 but biologically it's hard to come up with a  
13 reason why it's not plausible, let's put it  
14 that way.

15 **DR. ZIEMER:** Maxia, do you have any other  
16 comments on that?

17 **DR. DONG:** (Off microphone) (Unintelligible) --

18 **DR. ZIEMER:** You need to come to the mike.

19 **DR. DONG:** I think the experts -- the review on  
20 the CLL and radiation exposure come out also  
21 differently. One review I think said we can't  
22 exclude CLL as -- by review of European -- the  
23 category of CLL is -- belongs to the  
24 classification or the group (unintelligible) is  
25 the same as lymphoma, which is included. So if

1 we exclude CLL won't be fair if we include  
2 lymphoma but exclude CLL same time so because  
3 same (unintelligible) -- or same  
4 (unintelligible). Try to think about other  
5 things -- so I -- I think -- yeah, that's --

6 **DR. NETON:** I think that's pretty much where  
7 we're at.

8 **DR. ZIEMER:** Okay, thank you. Gen, did that  
9 complete your question?

10 Okay, Dr. Melius.

11 **DR. MELIUS:** Yeah, couple of questions. One, I  
12 would -- glad to see you're making progress and  
13 really do ap-- appreciate the report and the  
14 up-- the update and it -- the -- the last set  
15 of slides -- I missed that part of the meeting  
16 and you -- you were absent from the meeting and  
17 we were -- actually had a -- got a slide that  
18 actually said that BEIR VII wasn't out yet and  
19 had me very confused -- like waiting on BEIR  
20 VII, so -- but I thought, you know, I'd missed  
21 something or whatever -- a year of my life had  
22 gone or something, but -- but anyway, by that.  
23 I think one of the issues that I certainly urge  
24 you to keep moving along, it appears to be  
25 getting some priority, is this whole issue of

1 the occupational studies. That was actually a  
2 mandate that was in original -- in the original  
3 legislation and I -- I think it's a -- you  
4 know, a concern we all have and it -- would  
5 like to be able to say one way or the other is  
6 are -- is the basic approach we're using  
7 properly taking into account the fact that  
8 these are workplace exposures and could --  
9 could affect this one -- one way or the other --  
10 - that.

11 My other question is with the -- in OTIB-49,  
12 the last part of your presentation is -- in  
13 that -- is that something that SC&A is  
14 reviewing? Is that one of the procedures  
15 they're --

16 **DR. NETON:** Yes.

17 **DR. MELIUS:** -- looking at? Okay.

18 **DR. NETON:** Yeah.

19 **DR. MELIUS:** 'Cause I -- just thing on that --  
20 I think it's helpful for all of us to have peer  
21 review, and I'd also urge you to get that -- I  
22 think that as a scientific publication. It  
23 sounds like --

24 **DR. NETON:** I agree, I think it's --

25 **DR. MELIUS:** -- interesting work and ought to

1           be getting out into the scientific literature  
2           also.

3           **DR. NETON:** I definitely agree with you. SC&A  
4           is -- they're essentially complete with their  
5           review of TIB-49. I mean it's -- there's only  
6           one little piece left, which is are these  
7           bounding cases truly bounding. We made a  
8           decision to release it because if anything  
9           would change it would be some of these  
10          coefficients a little bit, but the general  
11          approach -- I think they -- they are okay with.

12          **DR. ZIEMER:** Thank you. John Poston?

13          **DR. POSTON:** Jim, good to see you back again.

14          **DR. NETON:** Thank you.

15          **DR. POSTON:** I wanted to clarify a couple of  
16          things that -- hopefully you misspoke, but if  
17          you didn't, then I need to be educated.  
18          On the oro-nasal breathing, you indicated that  
19          this would indica-- this would increase the  
20          dose per unit intake, and I don't think that's  
21          correct. It would increase the dose, but I  
22          don't think it would --

23          **DR. NETON:** Not the unit intake. It would  
24          increase the intake itself --

25          **DR. POSTON:** Yes.

1 DR. NETON: -- per -- per --

2 DR. POSTON: It would increase --

3 DR. NETON: -- (unintelligible), actually.

4 DR. POSTON: Yeah, and so that would increase  
5 the dose.

6 DR. NETON: Yeah.

7 DR. POSTON: But per unit intake, the dose is  
8 going to be roughly the same.

9 DR. NETON: Well, it depends on what per unit -  
10 - if it's per breath, I guess it would go --  
11 but you're -- you're right --

12 DR. POSTON: I'm just trying to understand  
13 because --

14 DR. NETON: You essentially don't have the  
15 filtration of the nasal passages and it would  
16 go directly to deposition --

17 DR. POSTON: Right.

18 DR. NETON: -- in the deep lung.

19 DR. POSTON: Right. One other question about  
20 your ingestion model. I don't know if you can  
21 get it back up there, but I was a little  
22 confused about one of the -- one of the  
23 pathways, and I just -- a five-second  
24 explanation will make me very happy.

25 (Pause)

1 In the lower right-hand corner where it says  
2 oral --

3 **DR. NETON:** Uh-huh.

4 **DR. POSTON:** -- there happens to be an arrow  
5 going back to surfaces. Is that for  
6 expectoration or something or what is that?  
7 How does it go past the intake boundary back  
8 out to the surfaces?

9 **DR. NETON:** I think that's what it says,  
10 spitting out of saliva is -- is next to the  
11 arrow there.

12 **DR. POSTON:** Well, I wasn't sure whether that  
13 was associated with that particular line or  
14 not, that's why I'm asking for a clarification.

15 **DR. NETON:** I think so. I think --

16 **DR. POSTON:** Okay, I'm happy. I just wanted to  
17 understand the model.

18 **DR. NETON:** Expectoration does happen.

19 **DR. POSTON:** Oh, yes, I know.

20 **DR. ZIEMER:** Sneezing.

21 **DR. NETON:** Sneezing.

22 **DR. ZIEMER:** Or whatever.

23 **DR. POSTON:** Yeah.

24 **DR. ZIEMER:** Okay. Thank you.

25 **DR. POSTON:** Thank you.

1           **DR. ZIEMER:** Yes, Phillip.

2           **MR. SCHOFIELD:** (Off microphone)

3           (Unintelligible) a few questions

4           (unintelligible) (on microphone) actually loom

5           large in Los Alamos's SEC. One is the issue of

6           secondhand smoke, how it affects the lung and

7           the modeling of these people who were not

8           smokers but they were -- coworkers were always

9           issued cigarettes, as many as they wanted, and

10          they were confined to small areas during these

11          times during these lunch breaks, and they --

12          not only would there be a lot of smokers, but

13          they also would drink coffee, eat donuts, eat

14          sandwiches, all at this time. How is that

15          going to affect the lung models for the non-

16          smokers? It has definitely got to be an issue

17          there, secondhand smoke and how it's going to

18          affect their intakes.

19          **DR. NETON:** Well, there's a couple of things.

20          One is it -- secondhand smoke would definitely

21          af-- should affect their chance of developing

22          cancer, if that's what you're saying. But

23          you're talking about the -- the impairment of

24          the mechan-- the clearance of the lungs from

25          breathing in secondhand smoke --

1           **MR. SCHOFIELD:** What I'm talking --

2           **DR. NETON:** -- or something like that?

3           **MR. SCHOFIELD:** -- is the impact of their  
4 inhaling any radionucleides (sic) into their  
5 lungs, and then this effect of the secondhand  
6 smoke come in where, you know, you modeled  
7 where this -- what effect it has with the  
8 smokers.

9           **DR. NETON:** There -- there --

10          **MR. SCHOFIELD:** What about the people who are  
11 receiving all this smoke second hand? Are you  
12 going to look at that?

13          **DR. NETON:** We have not looked at that to this  
14 point. I'm not sure there's a lot of  
15 literature on that itself, but it could be  
16 looked at. I think what you're suggesting is  
17 that the -- the traditional lung model would  
18 not apply to smokers. Now we apply a  
19 traditional lung model to smokers themselves.  
20 There is no smokers lung model. I mean it's --  
21 it's a model that has certain uncertainty  
22 parameters associated with it, but we don't  
23 adjust for smoking as far as mechanical  
24 clearance goes or anything like that. So I'm  
25 not sure it's possible to do what you're

1 suggesting.

2 **DR. ZIEMER:** Let me insert here, Jim. If a  
3 person is a smoker and has lung cancer, in --  
4 in effect the models attribute some of that --  
5 the probability to the smoking.

6 **DR. NETON:** Right.

7 **DR. ZIEMER:** So if you -- even if a person had  
8 secondhand smoke, if you didn't take that into  
9 consideration, would it not be more claimant  
10 favorable --

11 **DR. NETON:** Yes, that's right.

12 **DR. ZIEMER:** -- to assume that they had no  
13 secondhand smoke? Their probability of  
14 causation would actually be higher than if you  
15 considered --

16 **DR. NETON:** That's true.

17 **DR. ZIEMER:** -- I believe.

18 **DR. NETON:** Yeah. I -- when I was speaking of  
19 the models, I was talking about the lung model  
20 itself.

21 **DR. ZIEMER:** Yeah.

22 **DR. NETON:** The risk model is another issue,  
23 but you're right, Dr. Ziemer, exactly.

24 **MR. ELLIOTT:** And that's what I heard in the  
25 question, what -- what is the risk --

1           **DR. ZIEMER:** Yeah, the --

2           **MR. ELLIOTT:** -- associated with secondhand  
3 smoke --

4           **DR. ZIEMER:** It actually --

5           **MR. ELLIOTT:** -- for a non-smoker, you know,  
6 what's the POC going to be if you only used the  
7 lung model --

8           **DR. ZIEMER:** It favors --

9           **MR. ELLIOTT:** -- with no smoking adjustment --

10          **DR. ZIEMER:** -- the claimant not to consider  
11 secondhand smoke.

12          **DR. NETON:** If a person was a non-smoker,  
13 they'd be considered a non-smoker for -- for  
14 calculation (unintelligible).

15          **MR. SCHOFIELD:** Okay, next question. How are  
16 you going to model for those particular people  
17 in different jobs who had to use lead aprons  
18 and were required to wear their film badge  
19 because obviously they're doing a job that is a  
20 higher level radiation than their coworkers  
21 around them or they would not be told to do  
22 this, so how are you going to account for that  
23 when the claimant --

24          **DR. NETON:** Yeah, that's a -- that's a good  
25 question, and this comes up from time to time.

1           The best scenario is if we know who wore lead  
2           aprons, and not only if they wore them, but  
3           where they wore the badge relative to the  
4           aprons is critical of course to know. Barring  
5           that, then we would have some conservative  
6           default factors that would be built into the  
7           calculations to account for that.

8           **MR. SCHOFIELD:** Okay, on to my third question  
9           now. You're talking about cancers to the male  
10          genitalia, and this would actually apply to a  
11          lot of the female is because of the common  
12          practice of the way they did, quote, bag-outs  
13          as removal of materials or equipment from  
14          gloveboxes. I know some people at Rocky did  
15          this. I know -- I've been told at Hanford this  
16          has been the common practice. I know Los  
17          Alamos has been standard practice. Regardless  
18          of the level of the radiation of that material,  
19          they -- it is actually held between their  
20          knees. So when you go to do this modeling, if  
21          they did -- were in a particular process where  
22          they used a lot of -- you know, handled a lot  
23          of high exposure equip-- equipment or high  
24          exposure materials, how are you going to take  
25          this factor into -- for the claimant?

1           **DR. NETON:** Well, to -- to the extent we  
2 understand it and can deal with it, I mean we  
3 will account for it. That falls under this  
4 category here, fourth bullet on the list is  
5 non-standard external exposures. We've already  
6 made adjustments, as I mentioned, for planar  
7 sources of contamination. We have made  
8 adjustments for glovebox workers already  
9 because if you're wearing a badge and the  
10 exposure is to your GI area, it's likely going  
11 to be higher, so we've got -- we've modeled  
12 that already. The intent of this issue is to  
13 address these various types of non-standard  
14 exposures, and you raise a good point with the  
15 -- with the exposure scenario you brought up.  
16 And I've not heard this one before. I don't  
17 know if it's covered in any of our documents or  
18 not, but I appreciate that input. We might  
19 want to talk to you in more detail about that.

20           **MR. SCHOFIELD:** Okay.

21           **DR. ZIEMER:** Dr. Lockey?

22           **DR. LOCKEY:** I -- I really enjoyed your  
23 presentation. It was -- in relationship to  
24 prostate and testicular cancer, different age  
25 groups, different risk factors, one's an old

1 person disease, the other's a young person  
2 disease. I think there's a lot of  
3 misclassification if you lump those together.

4 **DR. NETON:** Yeah, I'm not an expert on the risk  
5 model so I'll have to beg off on the question.  
6 I know that there are age adjustments built  
7 into the -- but I'm not -- I'm not certain as  
8 to where -- how that is treated, specifically.  
9 So I -- I can't comment on that. I can  
10 certainly find out for you.

11 **DR. ZIEMER:** Larry, do you have a comment on  
12 that?

13 **MR. ELLIOTT:** No, I have a comment on Phil's  
14 second point about the lead aprons. When we --  
15 when our folks go through the interview process  
16 and this comes up, you know, we want to make  
17 sure we understand was a lead apron worn, and  
18 then we want to understand was the badge on the  
19 outside, was it required to be worn on the  
20 outside or was it required to be worn  
21 underneath. And they're different -- during  
22 different time frames across different sites,  
23 that changed, you know, depending upon what  
24 they were trying to understand. And our  
25 interest is to make sure we understand how the

1 badge was worn, if it's -- if it's -- and I'm  
2 not going to offer where this goes, but I  
3 believe that we would like to reconstruct the  
4 dose recognizing if the badge is worn on the  
5 outside, we'd give that dose from that badge to  
6 the individual whether they wore the apron or  
7 not, you see. So it's important that we find  
8 that out when we talk to the claimants.

9 **MR. SCHOFIELD:** The reason I bring up this  
10 point because it was standard practice, at  
11 least at Los Alamos, that when you wore a lead  
12 apron you wore your badge under the lead apron  
13 so you did not record this higher rate of  
14 exposure.

15 **DR. NETON:** Of course that would be appropriate  
16 for modeling doses to things like the lung and  
17 the GI tract, but if you have a cancer of the  
18 area of the head or the extremities, then your  
19 -- the dose would be very underes-- very much  
20 underestimated.

21 **DR. ZIEMER:** Yeah. Let's see, John, did you  
22 have an additional question? Or Jim? Okay,  
23 any others?  
24 If not, thank you very much for that update and  
25 we look forward to continued updates from time

1 to time.

2 Board members, let me ask you if you wish to  
3 continue moving ahead? We are at the lunch  
4 break time. However, I think we can probably  
5 conclude by 1:00 if we delay lunch, and I'm not  
6 guaranteeing anything, but what is your  
7 pleasure? Would you like to continue? Would  
8 you like a brief break?

9 **MR. CLAWSON:** (Off microphone) (Unintelligible)

10 **DR. ZIEMER:** Okay, we will take a Brad break  
11 and -- but not a lunch break. Well, let me --  
12 let me make sure that's consensus. Is everyone  
13 else going to go to lunch and Brad and I'll  
14 come back? Okay, we'll take -- would you --  
15 would you wish to continue? Yes, okay. Let's  
16 take about a -- make it quick, ten minutes if  
17 you can, and let's get back here and continue  
18 work.

19 (Whereupon, a recess was taken from 12:10 p.m.  
20 to 12:27 p.m.)

**BOARD WORKING TIME:**

**STATUS OF SITE PROFILE REVIEWS**

**FUTURE MEETINGS**

**DR. PAUL ZIEMER, CHAIR**

21 **DR. ZIEMER:** We have some action items that are  
22 left from earlier in the week. First of all,  
23 action on the subcommittee report.

1 (Pause)

2 Mark is not here, but we have -- we have a  
3 recommen-- recommended cases from the  
4 subcommittee. Lew, do you have those handy  
5 there?

6 **DR. WADE:** I do.

7 **DR. ZIEMER:** Board members, I think the case  
8 numbers were read to you earlier in the week.  
9 You have the opportunity to add or -- or -- or  
10 delete, if you wish. Lew, do you want to re-  
11 read those? There were 28 cases -- or do we  
12 need to read them even?

13 **MS. MUNN:** I don't think so.

14 **DR. ZIEMER:** I think everybody has the numbers,  
15 you have them all marked. Let -- let me ask if  
16 anyone wishes to add additional cases to the  
17 list of 28 that's been recommended by the  
18 subcommittee? Wanda --

19 **MS. MUNN:** No.

20 **DR. ZIEMER:** -- you don't. Okay. Or -- or  
21 deletions, any deletions?

22 If not, this is a motion that's before us. It  
23 comes as a recommendation from the  
24 subcommittee, does not require a second. Are -  
25 - are you ready to vote? Voting yes will add

1           these 28 cases. They will then go to SC&A for  
2           their roll, as well, and we will also need to  
3           assign teams to those cases. So all in favor  
4           of the motion or the subcommittee  
5           recommendation, say aye.

6                           (Affirmative responses)

7           Any opposed?

8                           (No responses)

9           Mike, are you on the phone?

10                           (No response)

11           We've lost Mike, but we do have a quorum. And  
12           any abstentions?

13                           (No responses)

14           I'll declare the motion has carried with--  
15           without exception.

16           **DR. WADE:** Procedures, Task III.

17           **DR. ZIEMER:** Yeah. We -- we do need to -- I  
18           wonder if we should go ahead and assign the  
19           review teams. Do we need to do that today or -  
20           -

21           **DR. WADE:** I don't think so.

22           **DR. ZIEMER:** Okay. Lew, maybe to save time,  
23           you and I can do those using the conflict of  
24           interest. We'll let Kathy know and let each of  
25           you know your assignments.

1           **DR. WADE:** I think this gives SC&A the ability  
2           to begin to assemble the cases that --

3           **DR. ZIEMER:** Right, we have plenty of time to  
4           make the assignments before --

5           **DR. WADE:** Correct.

6           **DR. ZIEMER:** -- the call will come, in any  
7           event. Okay.

8           Next we have the recommendation from the  
9           workgroup on procedures review. Ms. Munn, your  
10          recommendation was for six additional  
11          procedures.

12          **MS. MUNN:** That's correct, and to accept the  
13          asterisked procedures that we had identified at  
14          our previous Board meeting --

15          **DR. ZIEMER:** Right.

16          **MS. WHITE:** -- but had not, I believe,  
17          incorporated in our expectation of Task III  
18          items for SC&A for the fiscal year 2007.

19          **DR. ZIEMER:** Okay. The asterisked procedures  
20          are in Tables 2 and 3 of the materials that  
21          were distributed to you on the -- the list of  
22          procedures. And then the additional ones were  
23          --

24          **MS. MUNN:** Were highlighted on --

25          **DR. ZIEMER:** -- were highlighted --

1           **MS. MUNN:** -- that one.

2           **DR. ZIEMER:** Anyone need those additional six  
3 repeated? Apparently not. This is a formal  
4 motion. It comes as a recommendation from the  
5 workgroup. It does not require a second, so if  
6 you -- if you vote in favor, we will add this  
7 to the task of our contractor. Okay?  
8 All in favor, aye?

9                           (Affirmative responses)

10           Any opposed?

11                           (No responses)

12           Any abstentions?

13                           (No responses)

14           And there again let me see if Mike is on the  
15 line. Mike, are you on the line?

16                           (No response)

17           Apparently not, but the motion carries then.

18           **DR. WADE:** One very quick item of business is  
19 our next meetings. If you look at the tab in  
20 your book headed "upcoming meetings", all those  
21 in blue we've talked about before and I would  
22 suggest we maintain. The two in red at the end  
23 I've asked for slight changes by Board members  
24 and would propose to change December 3rd to  
25 December 6th for a call. This is the end of

1 2007.

2 **MS. MUNN:** (Off microphone) (Unintelligible)  
3 Thursday (unintelligible).

4 **DR. WADE:** Correct. That's the only change,  
5 really. No change in the January 8 to 10  
6 dates.

7 **DR. ZIEMER:** Give us that again, Lew, just --

8 **DR. WADE:** Changing the date of a call from  
9 December 3rd originally scheduled to December  
10 6th.

11 **UNIDENTIFIED:** (Off microphone)  
12 (Unintelligible)

13 **DR. WADE:** That's a call.

14 **UNIDENTIFIED:** (Unintelligible) full Board  
15 meeting.

16 **DR. ZIEMER:** He's asking about the October  
17 meeting.

18 **DR. WADE:** October is 3, 4 and 5.

19 **UNIDENTIFIED:** (Off microphone)  
20 (Unintelligible)

21 **DR. WADE:** I'm sorry, for -- I'm sorry, should  
22 be three, sorry.

23 **DR. ZIEMER:** And then December again is --  
24 sorry.

25 **DR. WADE:** The 6th.

1           **DR. ZIEMER:** December 6.

2           **DR. WADE:** I will send out -- I'm proposing a  
3 call in mid-February and a face-to-face meeting  
4 the end of March of 2008, and I'll send out  
5 tentative dates to you.

6           **DR. ZIEMER:** Okay.

7           **DR. WADE:** That's all I have.

8           **DR. ZIEMER:** Any questions on this -- on the  
9 meeting schedule?

10          **MR. PRESLEY:** (Off microphone) (Unintelligible)  
11 got a question (unintelligible) July.

12          **DR. WADE:** No.

13          **MR. PRESLEY:** (Off microphone) (Unintelligible)

14          **DR. WADE:** Yeah, Alaska's under consideration.

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

16          **DR. WADE:** The Linde site profile.

17          **MS. MUNN:** Are we going to attempt to identify  
18 a time -- a place for July?

19          **DR. WADE:** I mean I -- I think -- the way we've  
20 done our business is we go to where the action  
21 is and where we need to be in front of the  
22 people, and I can't project at this point where  
23 that would be. So every time we've tried to  
24 forecast location well out, we always wind up  
25 changing to, you know, the SEC petition that is

1 hot at the moment. So I'm willing to take  
2 suggestions on July.

3 **MS. MUNN:** No, it's just -- it's helpful from a  
4 personal point of view if we have some concept  
5 of what part of the world we're going to be in  
6 at that time.

7 **DR. ZIEMER:** Well, I think the -- the issue  
8 perhaps is the earlier we know, the better for  
9 -- for many folks in planning their travel, but  
10 it -- it has become somewhat dependent on where  
11 we need to be in terms of SEC petitions and  
12 that sort of thing. Hopefully we'll know --  
13 well, I don't know if we'll know by our phone  
14 time --

15 **DR. WADE:** Well, I'll define a location on the  
16 April call.

17 **MS. MUNN:** That would be helpful.

18 **DR. WADE:** Although I -- I'm al-- it's always  
19 subject to change. I mean I'm sorry about  
20 that, but we will on the April call tell you  
21 where we're planning to have the July meeting.

22 **MR. PRESLEY:** We had talked at one time about  
23 going and -- and hitting the smaller companies  
24 up north. That might be a good time.

25 **MS. MUNN:** It would be a good time.

1           **DR. ZIEMER:** Okay, another item of business we  
2 committed to last time was to establish a  
3 working group for the Linde plant. Linde plant  
4 is in New York. In connection with that, let -  
5 - we'll address that in just a moment, but if  
6 you would pull out the -- the document that was  
7 in the front folder or the front pocket of your  
8 folder, you'll have the list of status of Board  
9 actions on SC-- SC&A's site profile reviews.  
10 And I might add, just for completeness, you  
11 might jot Ames down there, too. Ames we did an  
12 SEC review, so although it wasn't a site  
13 profile, but there is -- we did have a sort of  
14 review on Ames in the nature of the SEC review,  
15 so you might add that to the list. That was a  
16 -- that's a completed item.  
17 So you notice here the ones marked priority one  
18 through five we have tasked for this year to  
19 SC&A. The one marked priority six has not been  
20 tasked, but it was listed as our priority so I  
21 put it on the -- the chart. So those are all  
22 coming down the stream.  
23 The ones that say response matrix developed or  
24 the words "No R," these are completed site  
25 profiles where we have not done anything as a

1 Board. In some cases we do have workgroups in  
2 place -- well, let's see. There -- there's  
3 some -- yes, we have -- we have a num-- I guess  
4 none of the no's, so we don't have workplaces  
5 on any of the no's here. We want to add Linde.  
6 We may want to identify at least one or two  
7 others on the list where we need to get  
8 underway. It's been suggested, for example,  
9 that Los Alamos may indeed be one of those. We  
10 need to be moving on that one certainly, and  
11 there may be others.

12 We'd like to have three or four people on a  
13 workgroup, if possible, and as you know,  
14 generally tried to get volunteers to help on  
15 these. And just for your thinking, in addition  
16 to Linde I'd like -- like to -- the Board to at  
17 least identify -- can you identify what you  
18 think would be the next two site profile  
19 reviews that we need to address?

20 I will suggest some if no one has any, but --

21 **MS. MUNN:** I certainly think Los Alamos ought  
22 to --

23 **DR. ZIEMER:** Wanda has suggested Los Alamos, I  
24 --

25 **MS. MUNN:** Absolutely.

1           **DR. ZIEMER:** -- wonder how others of you feel  
2           on that.

3           **DR. POSTON:** Well, since I've been sensitized  
4           to it, I notice that Chapman Valve's not on the  
5           list at all.

6           **DR. ROESSLER:** That's 'cause we have a  
7           workgroup on it.

8           **DR. POSTON:** But we haven't done the profile  
9           reviews.

10          **DR. WADE:** No site profile review, that's  
11          correct.

12          **DR. ZIEMER:** I'm not sure --

13          **DR. POSTON:** We didn't even get the SCA review  
14          until the 6th.

15          **DR. ZIEMER:** Right. I think when I made the  
16          list up, I don't think I had the Chapman --  
17          remember you and I were talking about that,  
18          John, 'cause John helped me with the list at  
19          that time.

20          **DR. MAURO:** Yeah, I was trying to help out. On  
21          -- on two, Blockson and Chapman, we have done  
22          quite a bit of work related to the SEC. In the  
23          process -- it turns out both those sites have  
24          what's called an exposure matrix, which is a  
25          relatively brief document, on the order of --

1           less than 100 pages, so it's not the typical  
2           very large site profile.  Where I'm going with  
3           this is a great deal of work has been  
4           accomplished in terms of reviewing the -- the  
5           SEC-related issues, and in the process of doing  
6           that we did review the site profile.  So I -- I  
7           would say that though we did not prepare a  
8           report that would be called a site profile  
9           review for either Chapman or Blockson, both  
10          those reports contain a great deal of material  
11          which addresses the -- the exposure matrix,  
12          which is effectively a site profile.  So -- now  
13          -- but -- in -- in our formal reviews of site  
14          profiles, there are certain things we do and  
15          certain sections that are contained in our  
16          reports that are not contained in the work  
17          product that you've looked at and -- and that  
18          Wanda's looked at, so you -- so there may be  
19          some need to develop some additional material,  
20          but -- I guess where I'm going with this is to  
21          convert the work product that you have before  
22          you for SEC issues on Chapman and on Blockson  
23          into what might be called a site profile review  
24          is a very small delta.  And to the extent you  
25          wish to do that, it could be readily done.

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**DR. ZIEMER:** But we don't have a document called a site profile review --

**DR. POSTON:** John --

**DR. ZIEMER:** -- on either of those.

**DR. POSTON:** John, are you going to develop the matrix for Chapman Valve?

**DR. MAURO:** We cer-- I -- I think that'll be very useful for our working group meeting. I could take care of that readily. It basically will draw upon the last chapter in the Chapman Valve report where there -- I think there were seven issues. We will simply take that -- I could do that very readily, be happy to take care of that.

**DR. POSTON:** 'Cause we need to get that done.

**DR. ZIEMER:** Yeah. Yeah, well, you already have an SEC task on Chapman.

**DR. MAURO:** We have an SEC task on Chapman and on -- on Blockson, and they're both active.

**DR. ZIEMER:** Right. And for what we need now, that's -- that would take care of Chapman and Blockson, and there is -- there is no site profile of the usual type and we have not tasked you to do a site profile review, in any

1 event. But we do have workgroups on those,  
2 also, so those, in a sense, are covered.

3 **MS. MUNN:** It would -- it would seem even  
4 unwise to being to think in terms of setting  
5 this type of site up in the same way that we do  
6 site profiles. I would hesitate to -- to being  
7 that process.

8 **DR. WADE:** We should just keep doing what we're  
9 doing.

10 **MS. MUNN:** I think what we're doing is  
11 appropriate.

12 **DR. MAURO:** What I -- that's what -- I very  
13 much agree with that recommendation.

14 **DR. WADE:** We have a plan, let's keep to it.

15 **DR. ZIEMER:** So we have -- we have a suggestion  
16 for a workgroup for Linde and for Los Alamos.  
17 Now we -- we can add others here and, in  
18 essence, try to get underway. But keep in mind  
19 that the next step on all of these is the  
20 matrix, really the issue and just formatting  
21 that into a matrix. The next step on any of  
22 these would be to ask NIOSH to -- to prepare  
23 their responses. So even if we had a  
24 workgroup, there would be a time lag before  
25 much could be done until we got the set of

1 responses and the -- then the opportunity for  
2 the exchange.

3 **DR. WADE:** Right.

4 **DR. ZIEMER:** John, just to help us out real  
5 quickly, I know that on -- on the newer site  
6 profile reviews you're going ahead and -- and  
7 preparing the -- the first version of the  
8 matrix anyway because you know that that's the  
9 way we're going.

10 **DR. MAURO:** Yes.

11 **DR. ZIEMER:** How many of these that currently  
12 say no is -- does the matrix already exist?  
13 And that's basically a formatting of your  
14 findings.

15 **DR. MAURO:** Hold on one second.

16 (Pause)

17 Okay. There are -- let's see, we have --  
18 currently there -- I guess the best way to look  
19 at it is we have a matrix for -- okay,  
20 unfortunately -- all I have here is whether the  
21 closeout process has begun or not. I'm sorry  
22 to say I can't tell from the table I prepared  
23 whether some of those site profile reviews  
24 included a matrix or did not include a matrix.  
25 So unfortunately I can't answer your question.

1           **DR. ZIEMER:** Well, for example, in Los Alamos  
2 did you already prepare your findings in matrix  
3 form?

4           **DR. MAURO:** That's what I was trying to see, I  
5 --

6           **DR. ZIEMER:** Oh, okay.

7           **DR. MAURO:** -- I don't -- I don't know.

8           **DR. ZIEMER:** Okay. Well, in any event, that's  
9 not a -- yeah.

10          **MR. FITZGERALD:** We went ahead and prepared  
11 matrices for Los Alamos, Mound, all the ones  
12 that were done last year --

13          **DR. ZIEMER:** Okay.

14          **MR. FITZGERALD:** -- so the only question is I'm  
15 not positive they were actually transmitted at  
16 the time of the reports. So we could certainly  
17 release those handily.

18          **DR. WADE:** Let's set up (unintelligible).

19          **DR. ZIEMER:** Okay. Let me ask, first of all,  
20 for volunteers for the Linde plant, three or  
21 four individuals. Okay, Josie --

22          **DR. WADE:** Gen.

23          **DR. ZIEMER:** -- Gen Roessler, any -- yes, Jim  
24 Lockey.

25          **DR. WADE:** Mike and Jim.

1           **DR. ZIEMER:** Okay. Gen, are you in a position  
2 to chair that one? I ask that in terms of -- I  
3 know you're involved in a lot of -- this is --

4           **DR. ROESSLER:** (Off microphone) I was  
5 (unintelligible) better assume my  
6 responsibility.

7           **DR. ZIEMER:** I think that's a yes.

8           **DR. ROESSLER:** (Off microphone) Yes, I  
9 (unintelligible).

10          **MR. CLAWSON:** I would answer for her, yes.

11          **DR. WADE:** And I can poll --

12          **DR. ZIEMER:** We'll -- we'll -- we'll find one  
13 other person. That gives us three to start. I  
14 don't want to put two new people on the same  
15 one. I'm going to save you, Phil, for a  
16 moment.

17          **MR. SCHOFIELD:** Okay.

18          **DR. ZIEMER:** Okay? Not that -- not that that  
19 wouldn't work, but just let's -- let's spread  
20 out the rookies, I guess.

21 Now actually -- I'm thinking about this -- if  
22 we -- if we do a Los Alamos, we can't put Phil  
23 on that, can we?

24          **MS. MUNN:** That's right, we can't.

25          **DR. WADE:** Phil was (unintelligible), we talked

1 about putting Phil on Fernald.

2 **DR. ZIEMER:** Yeah, actually -- and if -- if we  
3 put Phil on Fernald and -- let's go ahead and  
4 do that. That -- that will put them at five.

5 **DR. WADE:** Right, that's fine. It's active now  
6 and I think it would be a good training ground.

7 **DR. ZIEMER:** It'd be a good training ground,  
8 Phil. We'll add you for the moment to the  
9 Fernald -- and the Chair -- I don't need  
10 approval for that. If you agree, the Chair's  
11 authorized to make the appointment.

12 Right now we'll -- we'll set the Linde group at  
13 three, but I will try to add one. I think --  
14 and we're trying to get some balance here,  
15 maybe want to get -- I don't know, Mike, are  
16 you back on the line yet? Or --

17 **DR. ROESSLER:** Jim Melius?

18 **DR. ZIEMER:** -- or Jim.

19 **DR. WADE:** We'll talk to Jim or Mark or Mike.

20 **DR. ZIEMER:** Yeah, maybe get Jim. Let's talk -  
21 - how about Los Alamos, I'm -- I'm taking it --  
22 (Speakers interrupted telephonically,  
23 apparently not participants, but audible  
24 through a transmission problem.)

25 I'm taking it that you wish to proceed on Los

1 Alamos, and Mark has told me that he would like  
2 to be on that, Mark Griffon. I think someone  
3 else told me they wanted to be on that and --

4 **UNIDENTIFIED:** (Unintelligible) Los Alamos.

5 **DR. ZIEMER:** Okay, Josie would like to be on  
6 that one, and Robert Presley, and we need one  
7 other person there.

8 **MS. MUNN:** I'll be an alternate or -- if you --

9 **DR. WADE:** Wanda.

10 **MS. MUNN:** -- if you need one more.

11 **DR. ZIEMER:** Huh, Wanda Munn?

12 **MS. MUNN:** Yeah.

13 **DR. ZIEMER:** Okay, and Brad.

14 **DR. WADE:** No, John.

15 **DR. ZIEMER:** Oh, I'm sorry, John, okay.

16 **DR. POSTON:** I know the hair (unintelligible)  
17 we look a lot alike.

18 **DR. ZIEMER:** Yeah, hard to tell you apart, I  
19 know.

20 **DR. WADE:** That's five.

21 **DR. ZIEMER:** Okay.

22 **DR. WADE:** The rest we can do in April.

23 **DR. ZIEMER:** Yeah. Mark has indicated a  
24 willingness to chair that. I -- I don't know  
25 if he -- he's -- he has a tendency to get

1           overloaded, though, but --

2           **MS. MUNN:** Does he think we're going to wrap up  
3 Rocky that soon?

4           **MR. PRESLEY:** I hope.

5           **DR. ZIEMER:** Well, hopefully. I'll -- I'll --

6           **MS. MUNN:** Have to think about --

7           **DR. ZIEMER:** -- specify him as chair for now,  
8 if that's agreeable. There's -- there's two  
9 other possible workgroups and I want to kick  
10 this around for a minute. There -- Mike, are  
11 you back on the line?

12          **MR. GIBSON:** Uh-huh, yeah.

13          **DR. ZIEMER:** Okay. Mike, we're -- we're at a  
14 position -- well, first of all, we were working  
15 on workgroups for Linde and Los Alamos. Do you  
16 have an interest in either of those? We could  
17 use someone on Linde if you're available.

18          **MR. GIBSON:** Sure.

19          **DR. ZIEMER:** Okay. Now Mike, you had a motion  
20 to propose. I'd like to recognize you now for  
21 that motion.

22          **MR. GIBSON:** Okay. You know, given the Board's  
23 authority and -- and the things -- things that  
24 we have seen, I have a concern that -- you  
25 know, we've been to 40-some meetings and we've

1 heard public comments and I feel there's a duty  
2 that we need to look into, so I'd like to make  
3 the following motion, to form a working group  
4 to review the activities of the worker outreach  
5 program. This workgroup would be trusted,  
6 tasked and -- with reviewing all activities of  
7 the worker outreach program, including but not  
8 limited to, number one, the NIOSH/ORAU approach  
9 to organizing the worker outreach meetings;  
10 number two, to approach and look at how the  
11 meetings are conducted; number three, the  
12 impact that the claimants' and/or survivors'  
13 information is gathered at worker outreach  
14 meetings that are included in (a) the dose  
15 reconstruction program; (b) the site profiles;  
16 and (c) the site-specific petitions.

17 **DR. ZIEMER:** What was the last one, Mike?

18 **DR. WADE:** SEC petitions.

19 **DR. ZIEMER:** Oh, the SEC petitions.

20 **MR. GIBSON:** Yes.

21 **DR. ZIEMER:** Okay. Thank you. Is there a  
22 second to that motion?

23 **MR. CLAWSON:** (Off microphone) (Unintelligible)

24 **DR. ZIEMER:** Seconded by Brad. Now the motion  
25 is open for discussion. So as I -- if I've

1 jotted this down correctly, Mike, and make sure  
2 that everyone here has this, this is a working  
3 group to review the worker outreach program and  
4 -- let's see, worker outreach program and  
5 review all aspects of the worker outreach  
6 program, including NIOSH/ORAU approach, the  
7 approach to how the meetings are conducted or  
8 review how the meetings are conducted or --  
9 three, the impact of the information gathered  
10 on (a) dose reconstructions, on site profiles  
11 and (c) on SEC petitions. Do I --

12 **MR. GIBSON:** Correct.

13 **DR. ZIEMER:** -- have it correct?

14 **MR. GIBSON:** Correct, yes.

15 **DR. ZIEMER:** Okay. So this -- this motion  
16 then, as I understand it, would accomplish some  
17 of the things we were talking about earlier  
18 today, and that is to -- to in a sense confirm  
19 that -- that the worker input makes its way  
20 into the system, both in terms of the site  
21 profiles and the SEC petitions, as well as the  
22 dose reconstructions themselves. Is that  
23 everybody's understanding or --

24 **DR. WADE:** Yes, uh-huh.

25 **DR. ZIEMER:** Okay. Let's have discussion on

1 the motion, pro or con. And -- and also I  
2 might add, one of the -- and -- and this --  
3 this workgroup could certainly look at this,  
4 but one thing that is supposed to occur when we  
5 audit the dose reconstructions, our auditor  
6 also supposedly looks at the -- the record  
7 that's in there, the individual information,  
8 and -- and confirms that that has been taken  
9 into consideration. But nonetheless, this --  
10 this group may want to look at specific cases  
11 again to -- to assure that that has happened.  
12 Okay, any discussion, pro or con? Josie.

13 **MS. BEACH:** I have a question. Are there  
14 currently procedures to any of those points  
15 that Mike brought out?

16 **DR. ZIEMER:** Well, as I say, for the dose  
17 reconstruction, in a sense -- it's -- it's not  
18 called out as a -- as an emphasis, but one of  
19 the -- one of the questions I think in the --  
20 the list that SC&A uses, it's almost like a  
21 checklist initially, you know, is the  
22 information there, was it used, and John, you  
23 can -- I don't have the array before me, but --

24 **DR. MAURO:** One of the checklist items is the  
25 degree to which the dose reconstruction itself

1           has taken into consideration the computerized  
2           telephone interview.  There's a form that's  
3           used by NIOSH, it's very formal process, where  
4           they pose a series of questions to the claimant  
5           and they fill the information in.  And very  
6           often -- there's special places where there's a  
7           free -- free discussion where the claimant or  
8           the claimant's representative has an  
9           opportunity to provide -- provide additional  
10          information that they feel is relevant.  So  
11          with-- within that context, that type of  
12          information is captured for a particular  
13          claimant.  What I'm hearing here is now this  
14          goes more towards the site profile, and --  
15          **DR. ZIEMER:**  Well -- well, all three.  
16          **DR. MAURO:**  Well, I guess all three.  
17          **DR. ZIEMER:**  Yeah.  And -- and I think here,  
18          and perhaps this relates to the discussion  
19          earlier today when we were talking about  
20          annotating those -- those items that resulted  
21          from worker input, that would help such a  
22          workgroup to identify in fact places where that  
23          did occur 'cause basically we were asking Kate  
24          how -- how would the Board know that something  
25          in the site profile, for example, has been

1 changed or added-to as a result of worker  
2 input. So we're -- we're looking for ways, in  
3 a sense, anticipating this -- this sort of  
4 workgroup, that would allow them to actually  
5 audit the system. Yeah, Wanda.

6 **MS. MUNN:** Isn't -- my memory of the CATI, of  
7 that telephone interview, is that there's also  
8 a question in there about are there -- are  
9 there coworkers or other people who worked in  
10 the same area who could perhaps give additional  
11 information. So there is -- there is a prompt  
12 in there about -- and who else would you like  
13 to have us talk to if --

14 **DR. ZIEMER:** But -- but we have not formalized  
15 the Board's role in sort of confirming that --  
16 that this transfer of information has taken  
17 place, and I think in this -- this is a --  
18 perhaps a good follow-up that allows us to in  
19 essence confirm, outside of just yes, we -- we  
20 listened. We can document yes, those things  
21 really did occur. So -- so it would seem -- I  
22 shouldn't be moderating this, but --

23 **MS. MUNN:** You're supposed to.

24 **DR. ZIEMER:** -- I feel free to speak in behalf  
25 of the motion as well. So --



1 (No responses)

2 Mike --

3 **MR. GIBSON:** Aye.

4 **DR. ZIEMER:** -- can I assume you favor your  
5 motion?

6 **MR. GIBSON:** Yes, Paul.

7 **DR. ZIEMER:** Okay. Now, that having been done,  
8 we need to form a workgroup. The -- the Chair  
9 would ask whether or not Mike would be willing  
10 to chair the workgroup. Now you better -- you  
11 better say --

12 **MR. GIBSON:** Dr. Ziemer --

13 **DR. ZIEMER:** -- yes.

14 **MR. GIBSON:** -- I would, and I would also  
15 invite our new colleagues on the Board if they  
16 would be interested in taking on some  
17 assignments, if they'd be interested.

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

19 **DR. WADE:** Josie and Phil both say yes.

20 **DR. ZIEMER:** Josie and Phil both say yes. And  
21 we need one more person. Any volunteers?

22 **MS. MUNN:** Boy, I'm getting overloaded here.

23 **DR. ZIEMER:** Well --

24 **MS. MUNN:** Yeah.

25 **DR. ZIEMER:** Okay, Wanda wants to volunteer.

1           **MS. MUNN:** Yeah.

2           **DR. ZIEMER:** Okay, that's good.

3           **DR. WADE:** We've got it.

4           **DR. ZIEMER:** Okay, Mike, you have a workgroup  
5 and you can get underway as --

6           **MR. GIBSON:** I'm sorry, who was -- who was the  
7 --

8           **DR. ZIEMER:** We got -- you and Josie and Phil  
9 and Wanda.

10          **MS. MUNN:** Uh-huh.

11          **MR. GIBSON:** Okay.

12          **DR. ZIEMER:** Okay?

13          **MR. GIBSON:** Good.

14          **DR. ZIEMER:** Very good. Thank you very much.

15          **MR. GIBSON:** Thank you.

16          **DR. WADE:** That's it.

17          **DR. ZIEMER:** Now I believe that we have  
18 completed our business -- not too bad, 1:00  
19 o'clock.

20          **DR. WADE:** No, 1:00 o'clock.

21          **DR. LOCKEY:** (Off microphone) (Unintelligible)

22          **DR. ZIEMER:** Hang on, put your ques-- get your  
23 question in the mike here, Jim.

24          **DR. LOCKEY:** Last two weeks in March, looking  
25 at our calendars for having working group

1 meetings so we can --

2 **DR. ZIEMER:** Oh, yes, we --

3 **DR. LOCKEY:** -- (unintelligible).

4 **DR. ZIEMER:** -- were going to try to, if  
5 possible, schedule some workgroup meetings.

6 **DR. WADE:** I would target the week of March  
7 26th.

8 **DR. LOCKEY:** That's a good week.

9 **DR. WADE:** Let me know, workgroup chairs, who  
10 would like...

11 **DR. ZIEMER:** Okay, so we're going to try to  
12 schedule a number of workgroups the week of  
13 March 26th, if possible.

14 **DR. WADE:** If possible. Let me know and we'll  
15 try to coordinate.

16 **DR. ZIEMER:** And in some cases, if you can't  
17 travel but can be present by phone, that will  
18 help as well. Larry, do we have an issue on  
19 that?

20 **MR. ELLIOTT:** No, I guess I (unintelligible)  
21 SC&A folks were hopeful that you discuss how to  
22 approach the Los Alamos National Lab SEC and  
23 the Hanford SEC. In that context, we were  
24 hoping that you would parse off and ask SC&A to  
25 come up with their cate-- their list of SEC-

1 related issues, knowing that we're going to  
2 deal with -- with those evaluation reports very  
3 shortly.

4 **DR. ZIEMER:** Yes, Los Alamos and --

5 **MS. MUNN:** Hanford.

6 **DR. ZIEMER:** -- Hanford.

7 **DR. MELIUS:** Have we formed a workgroup on Los  
8 Alamos? I apologize, I --

9 **DR. ZIEMER:** We just -- we just now formed one  
10 and Mark will be heading that up.

11 **DR. MELIUS:** Okay.

12 **DR. ZIEMER:** I guess -- I guess --

13 **DR. MELIUS:** Then can I --

14 **DR. ZIEMER:** Yeah, we -- we could -- we could --  
15 -- we could actually -- and we have the -- we  
16 have the site profile reports on both of those,  
17 so it's the issue of tasking for --

18 **DR. MELIUS:** Before John speaks --

19 **DR. ZIEMER:** -- SEC --

20 **DR. MELIUS:** -- let me add -- offer a quick  
21 motion. I think -- I think I understand what  
22 we need to do, which is that -- I move that we  
23 authorize SC&A to begin work on an initial  
24 focused review of the Hanford and the Los  
25 Alamos SECs -- petitions and associated

1 information in the context of the -- their  
2 current review of the -- ongoing review of the  
3 site profiles.

4 **DR. ZIEMER:** Seconded?

5 **MR. PRESLEY:** Second.

6 **DR. ZIEMER:** Discussion? And I'd just ask  
7 Larry -- and that -- that is what you need to -  
8 - yeah.

9 **UNIDENTIFIED:** (Multiple speakers)

10 (Unintelligible)

11 **DR. WADE:** Presley.

12 **DR. ZIEMER:** Presley seconded, yeah. Okay, are  
13 you ready to vote on that motion?

14 Okay -- and John, you had a separate item to  
15 speak to, not on the motion.

16 Okay, let's vote on this motion. All in favor  
17 of tasking the contractor to do the SEC reviews  
18 for Hanford and Los Alamos, say aye.

19 (Affirmative responses)

20 Any opposed?

21 (No responses)

22 Any abstentions?

23 (No responses)

24 Mike?

25 **MR. GIBSON:** Aye.

1           **DR. ZIEMER:** Thank you, motion carries. John  
2           Poston.

3           **DR. POSTON:** (Off microphone) (Unintelligible)  
4           -- (on microphone) Oh, you turned me off? A  
5           couple of things. One, on Wednesday we  
6           received an e-mail from Joe regarding a meeting  
7           in Senator Salazar's office next Friday, and I  
8           wondered if any member of the Board was going  
9           to be present for that briefing. Seems to me  
10          we should be represented.

11          **DR. ZIEMER:** Let -- let me tell you that we  
12          have a Board policy on those meetings. Number  
13          one, generally we -- if SC&A does get called to  
14          do that, we -- we do respond to those  
15          positively. They will do the briefing. The  
16          policy is that they notify the Chair and -- and  
17          Lew of these. The third part of it is that  
18          although it's -- the Board would like to be  
19          present at these, we cannot insist on it  
20          because they're at the invitation of the  
21          various offices, so we -- we're not in a  
22          position to impose ourselves. Whenever SC&A  
23          does make such a briefing, they do provide us  
24          with a summary of -- of what was discussed, the  
25          questions and the responses. But unless --

1 unless we have a specific invitation to those,  
2 we generally are not attending.

3 Lew, can you add anything to that to --

4 **DR. WADE:** That's correct.

5 **DR. ZIEMER:** -- clarify?

6 **DR. WADE:** That's correct. But if any Board  
7 member wishes to attend, they let us know and  
8 we try and arrange that.

9 **DR. POSTON:** Well, I -- I want to go on the  
10 record, I think that's a very poor policy.  
11 This is the Board. The Board has the  
12 responsibility, not SCA. And it's okay to let  
13 SCA brief whoever they want, but the Board  
14 should be represented at these meetings. I  
15 don't see that as imposing ourself (sic). I  
16 think that's a ridiculous position. It's our  
17 work that -- that's being briefed.

18 **DR. ZIEMER:** Okay. Thank you.

19 **MR. PRESLEY:** I agree with John on this, by the  
20 way.

21 **DR. ZIEMER:** Yeah. Well, and -- and we've had  
22 those concerns from time to time and -- and  
23 yet, you know, Congress has the ability to call  
24 whoever they want to -- to provide them  
25 information.

1           **DR. WADE:** I'll certainly put it on the agenda  
2 to be discussed -- well, here we go.

3           **MS. JACQUEZ-ORTIZ:** Lew -- Lew, I -- could I  
4 speak to that -- just as a representative of  
5 Congress, or -- is -- is there a suggestion  
6 that every time a Congressional staff member or  
7 anyone of us requires a briefing from those  
8 associated with the program, specifically SC&A,  
9 the auditor, that an Advisory Board member  
10 would need to be present?

11           **DR. WADE:** That's not the Board's policy. That  
12 was just a comment made.

13           **DR. ZIEMER:** That was a comment that he felt  
14 that a Board member should be present.

15           **DR. POSTON:** As I understand it, SCA works for  
16 the Board. They are our contractor, and  
17 therefore if they're representing us, it's my  
18 opinion that someone from the Board should also  
19 be present. The Board -- SCA doesn't work for  
20 NIOSH or anyone else, they -- they are our  
21 contractor to help us oversee the activities.  
22 Therefore we should be present.

23           **MS. JACQUEZ-ORTIZ:** Yeah, it was my  
24 understanding that -- and -- and I would  
25 probably need to dig out where this is stated -

1 - that the auditors were required to respond to  
2 Congressional inquiries and the -- the  
3 circumstances under which that occurs. I don't  
4 know that that's spelled out in detail, so --  
5 anyway, I -- I just think that candid  
6 discussions -- I have candid discussions --

7 **DR. POSTON:** I'm not trying -- I'm not trying  
8 to stop any discussion or any -- at all. All  
9 I'm saying is, if they are our employees and  
10 they're representing the Board, then somebody  
11 on this Board should have cognizance of what  
12 they're -- what they're briefing you on.

13 **DR. WADE:** And that's what --

14 **DR. POSTON:** And I think that's a very  
15 reasonable position. I don't understand --

16 **DR. WADE:** We'll put this on the agenda --

17 **DR. POSTON:** -- why it is not reasonable.

18 **MS. JACQUEZ-ORTIZ:** I won't belabor the issue  
19 in terms of who's -- who's whose boss at the  
20 end of the day, you know. I think the funding  
21 comes from Congress and I -- I don't want to  
22 get into that. I just think that -- that there  
23 -- there are -- my boss, for example, he serves  
24 on the Appropriations Committee, Subcommittee  
25 for Health and Human Services, HHS, and there

1           are some oversight responsibilities that we  
2           have because of his role, and part of that  
3           oversight is being able to talk to the various  
4           players. So -- I won't belabor the issue. I  
5           just --

6           **DR. WADE:** The Board has a policy. We'll put  
7           this on the April call and we'll discuss it.  
8           We'll put the policy before the Board and  
9           discuss it and we can modify that policy.

10          **DR. ZIEMER:** Okay.

11          **MS. MUNN:** May I make a --

12          **DR. ZIEMER:** Robert, do you have an additional  
13          item?

14          **MR. PRESLEY:** I'm going to bring up something  
15          that's not real popular, but I think we need to  
16          talk about a time period on our presenters --  
17          or not our presenters but our -- some of our  
18          people that talk for the public comment time.  
19          It's not fair to some of these people that come  
20          and they have to set all night long just to  
21          maybe speak two or three minutes. We need to  
22          talk about that, about limiting the time that  
23          people --

24          **DR. ZIEMER:** Yeah, maybe we can put that on the  
25          agenda. Many of you know and I've talked to

1 individual Board members, I'm -- I'm hesitant  
2 to cut people off when they're giving a  
3 presentation. If -- and -- and we never know  
4 in advance. In fact, most of the speakers --  
5 they're -- they're like many of us, we think  
6 we're going to be brief. Sometimes I'm the  
7 worst of those, but people don't always know  
8 how long they themselves are going to talk,  
9 even when they estimate it, and we -- we never  
10 know how many speakers we're going to have. So  
11 it is a -- it's kind of a difficult situation.  
12 I understand the -- and -- and sometimes I  
13 think even last night there were folks, local  
14 folks here, that left because they kind of ran  
15 out of steam before we could get to them. So  
16 it certainly is an issue and if -- if someone  
17 has a really good solution -- we don't want to  
18 -- we don't want to cut people off and miss  
19 what they have to say, and yet in fairness we  
20 need to be able to distribute that time. So if  
21 you would add that to the agenda --

22 **DR. WADE:** I will add -- I have indeed, thank  
23 you.

24 **MR. GIBSON:** Dr. Ziemer?

25 **DR. ZIEMER:** -- we can -- yes, Michael.



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**CERTIFICATE OF COURT REPORTER****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 the day of Feb. 9, 2007; 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 22nd day of April, 2007.

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**STEVEN RAY GREEN, CCR****CERTIFIED MERIT COURT REPORTER****CERTIFICATE NUMBER: A-2102**