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PUBLIC HEALTH SERVICE
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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DAY THREE

The verbatim transcript of the 44th
Meeting of the Advisory Board on Radiation and
Worker Health held at the Cincinnati Marriott
Northeast, Mason, Ohio, on Feb. 9, 2007.

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Feb. 9, 2007

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TRANSCRIPT LEGEND

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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*. 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 in formation,
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 conflicted person who we're still taking very
2 seriously.

3 **DR. WADE:** Okay. Thank you.

4 **MR. GIBSON:** Okay. Dr. Ziemer, could I respond
5 to that?

6 **DR. ZIEMER:** Sure, Mike.

7 **MR. GIBSON:** My response is, there are people
8 who are paid -- all people were paid by the
9 contractor they worked for under the Department
10 of Energy contract. Some were paid to do a
11 manual job, stick their hands in stuff, go fix
12 things or whatever. Some were paid -- and most
13 of those people were paid by the hour. Some
14 people were paid to oversee and -- and control
15 and, in my opinion, protect the interest of the
16 company on a salaried basis, irregardless of
17 the hours they were there, irregardless of what
18 they did, and therein lies the difference
19 between my interpre-- personal interpretation
20 of site expert on this and workers' knowledge
21 as site expert on that.

22 **DR. ZIEMER:** Okay. Thank you, Mike. Let me
23 ask if there's any other comments or questions,
24 Board members.

25 (No responses)

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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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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