

UNITED STATES OF AMERICA
CENTERS FOR DISEASE CONTROL

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NATIONAL INSTITUTE FOR OCCUPATIONAL
SAFETY AND HEALTH

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ADVISORY BOARD ON RADIATION AND
WORKER HEALTH

+ + + + +

77th MEETING

+ + + + +

TUESDAY
MAY 24, 2011

+ + + + +

The meeting convened at 8:30 a.m.,
Central Daylight Time, in the Crowne Plaza St.
Louis-Downtown, 200 North Fourth Street, St.
Louis, MO, James M. Melius, Chairman, presiding.

PRESENT:

- JAMES M. MELIUS, Chairman
- HENRY ANDERSON, Member
- JOSIE BEACH, Member
- BRADLEY P. CLAWSON, Member
- R. WILLIAM FIELD, Member
- MARK GRIFFON, Member*
- RICHARD LEMEN, Member
- JAMES E. LOCKEY
- WANDA I. MUNN, Member

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PRESENT: (continued)

ROBERT W. PRESLEY, Member

GENEVIEVE S. ROESSLER, Member

PHILLIP SCHOFIELD, Member

PAUL L. ZIEMER, Member*

TED KATZ, Designated Federal Official

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

2 8:29 a.m.

3 CHAIRMAN MELIUS: Good morning and
4 welcome to the 77th meeting of the Advisory
5 Board on Radiation and Worker Health and I
6 think a third time in St. Louis. I can't
7 remember. We've been here six times? Okay.
8 Several times. Not for a while so we're glad
9 to be back.

10 Let me turn it over to Ted who
11 will go through the usual housekeeping.

12 MR. KATZ: Good morning everybody.
13 Welcome everyone on the line and in the room.
14 This is the Advisory Board on Radiation and
15 Worker Health. It's our 77th, I think,
16 meeting which is quite an accomplishment in
17 and of itself. Welcome from Secretary of HHS
18 Sebelius and Director of NIOSH Dr. Howard as
19 well.

20 Let me just cover a few things
21 here. On the agenda we have a public comment
22 session today at 6:00, from 6:00 to 7:00 and

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1 tomorrow at 5:30 p.m.

2 If you would like to comment, for
3 people here in St. Louis there's a sign-in
4 sheet outside the door here. We would like
5 for you to sign in and I'll try to remind
6 people later because people will probably show
7 up later in the day about that.

8 The agenda for the meeting as well
9 as all the presentations that were here on
10 time to be put up on the web so people who are
11 listening in by phone can follow along with
12 the PowerPoint presentations on the web there.

13 They are on the NIOSH webpage
14 under the DCAS program under the Board, as
15 well as under the meeting section so I think
16 you can find it in either place.

17 Also, let me just note for people
18 who are listening in by phone if you would
19 please mute your phones during the meeting,
20 except if you're commenting, for example,
21 during the public comment session.

22 To mute your phone, if you don't

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1 have a mute button on your phone, press *6 and
2 then to unmute your phone you press *6 again.

3 It's very important that you mute your phone,
4 particularly for all the other people who are
5 on the line as well because they will
6 otherwise hear whatever background noise is
7 coming through your phone.

8 And then last just a little bit of
9 housekeeping about exits. Were there an
10 emergency and you need to get out of the hotel
11 for a fire or what have you, you go out these
12 exit doors, take an immediate left, go through
13 the two double glass doors, and then an
14 immediate right. That's the quickest way.
15 That puts you out on 6th Street, or some
16 street, that's right out there.

17 I think that covers it. I would
18 like to also check on the rolls. We have a
19 number of Board Members who are attending by
20 phone as opposed to in person here so let me
21 check now and have Board Members who are on
22 the line right now register your attendance,

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1 please.

2 MEMBER ZIEMER: This is Paul
3 Ziemer. I'm on the line.

4 MR. KATZ: Welcome, Paul.

5 How about Mr. Griffon? Or Mr.
6 Gibson? Or Dr. Richardson? Very well. At
7 this point they are not on the line. I think
8 we expect some of them to join us.

9 CHAIRMAN MELIUS: Some of the
10 Board Members had some travel problems getting
11 in here due to the weather.

12 Why don't we start. Stu, you want
13 to give us a NIOSH update? Then you can be
14 followed by Lew who is going to give us an
15 update. Lew Wade is going to give us an
16 update on the 10-Year Review.

17 MR. HINNEFELD: Thank you and good
18 morning everyone. For anyone who doesn't know
19 me, I think maybe everybody here does know me,
20 I'm Stu Hinnefeld from NIOSH from the Division
21 of Compensation Analysis and Support.

22 I'm going to be very brief today

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1 following the pattern that I followed at the
2 last Board meeting rather than run through all
3 the statistics. I'll talk a little bit about
4 the news from the program. The statistics
5 package has been available. If you have any
6 questions, I'll try and answer any questions
7 about the package that I forwarded in terms of
8 progress.

9 Suffice it to day that we are
10 continuing to make nice progress against the
11 backlog of claims. Some number of years ago
12 all who were here probably remember the
13 backlog of approaching 10,000 dose
14 reconstructions we had to do. We're now down
15 to a total population in house of about 1,400
16 claims with us that need to be done or
17 dispositioned in one way or another. We are
18 very happy about that.

19 During the -- let's see. I think
20 I went too far. Here is our program news
21 slide. During this past period if you'll
22 recall, we had an objective to complete claims

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1 that were over a year old by last June 1st, I
2 think, or June 30th, and there are certain
3 categories of claims that kind of fall outside
4 our accomplishment and these are kind of well-
5 known situations.

6 Some of them belong to SECs where
7 we believe -- sites where we believe there is
8 likely going to be an SEC but it hasn't become
9 effective yet and there are one or two
10 technical issues. On occasion we'll be
11 waiting for information from the DOE or DOL.

12 Typically that is because in
13 trying to do the dose reconstruction we
14 encountered this need for additional records.

15 Oftentimes this will be based on something
16 the claimant told us in the interview so we
17 have to go back.

18 It's rare that an initial response
19 from either agency takes that long. We make
20 the supplemental request at sometime and they
21 just didn't have time to respond. June of
22 last year we got to the point where we could

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1 do claims within a year of the time we got
2 them. By May of this year, May of 2011, we
3 have managed to get that down to nine months.

4 Claims that we get today, whether they be new
5 claims or reworked claims coming back to us,
6 we've been successful in getting the maximum
7 time down to nine months. Many of them are
8 done more quickly than that.

9 Now, we have new objectives for
10 the coming period in terms of timeliness. We
11 want to have a high percentage of claims done
12 within 60 days. I'm sorry, within six months.

13 Approximately half within six months.

14 For reworks where we don't have to
15 get additional data we want to get as many as
16 possible. We set an objective as 80. The
17 reason we don't make these 100 percent is it's
18 hard to get 100 percent of everything because
19 there are certain issues that pop up, odds and
20 ends or unusual claims that you don't really
21 get to 100 percent. We are trying, though, to
22 continue to shorten the period for dose

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1 reconstruction completion down to what we feel
2 is maybe a more reasonable amount of time.
3 Those are objectives going forward for
4 timeliness that we intend to meet.

5 The reason for the six-month
6 objective ending November 1st is that's a six-
7 month period on our main contractor, Oak Ridge
8 Associated Universities team. They have an
9 award fee performance rating system and their
10 contract date starts -- what would that be?
11 May 1st.

12 They are evaluated on six-month
13 intervals so that's the end of their
14 evaluation period. We found the most
15 effective way to make an objective on
16 timeliness. To improve your timeliness is to
17 make it award fee objective for your
18 contractor so they have some incentive to
19 agree with your objectives.

20 So that's how that works going
21 forward. I believe that's the only actually
22 new slide I have up there. I did with as

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1 little time to think about this over the
2 weekend come up with a couple more things that
3 I wanted to mention very quickly.

4 One is that in early May we
5 conducted another dose reconstruction SEC
6 workshop in Cincinnati. We do this in
7 conjunction with our worker outreach
8 contractor ATL. They essentially identify an
9 invitation list of advocates and people who
10 are interested in the program, learning more
11 about the program.

12 Very often these are
13 representatives from sites that are currently
14 working, maybe labor representatives that are
15 asked frequently by their constituency, by
16 their members for information about a program.

17 Many times these people don't feel
18 that well equipped to answer the questions so
19 we try to help them out and give them
20 additional information to provide to their
21 constituency. That was held in early May.
22 Between 20 and 30 people attended.

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1 ATL does conduct a satisfaction
2 survey or a feedback survey at the end of it.

3 I enjoy reading those feedback surveys
4 because in general they really provide good
5 feedback. People really valued the
6 information they received and they thought it
7 would be really useful to them in their jobs.

8 I get at least one opportunity, or two
9 opportunities a year, to read some good
10 feedback. That's kind of nice.

11 The other item I wanted to
12 mention, which is kind of addresses some thing
13 that we'll probably hear about in a little bit
14 which is that people don't seem to understand
15 us very well, is that there have been a little
16 bit news story lately about this Plain
17 Language Act, or Plain Language Initiative
18 that the government is supposed to embark on.

19 There's really not been a lot of
20 guidance come down through the administration
21 for how exactly or what's expected. We
22 figured, well, certainly in our program it

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1 cries out for some sort of action like that
2 just based on the feedback we hear from polls
3 of our claimants and feedback we hear from our
4 claimants and some things you'll hear in the
5 program review.

6 We are embarking on that trying,
7 first of all, with some of our written
8 products and we have a lot of them, to try to
9 rewrite them with the idea of making them more
10 readable and understandable to the general
11 public. We tended to write them for ourselves
12 and we like what they sounded like.

13 Not everybody talks like us which
14 probably is good for most everybody. We're
15 trying to rewrite those relying on our
16 communications team to try to maybe make these
17 a little more understandable. We have a lot
18 of written products. It will take a long time
19 to get through that. I think we are capable
20 of doing it. It just takes a different way of
21 working and perhaps a little more effort.

22 Those are the news items I wanted

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1 to cover. I'm pretty sure my slides go into
2 the statistics which I had not planned to
3 cover. I would be willing to answer any
4 questions about anything I talked about today
5 or any of the statistics on the slides.

6 CHAIRMAN MELIUS: Anybody have
7 questions for Stu? I do.

8 On one of those statistical
9 slides, and you've probably explained this
10 before but I'm still confused, if you take the
11 status of the first 10,000 claims and you have
12 228 claims at NIOSH, 192 closed, 14 DRs with
13 claimants, and then the parenthesis is what's
14 got me confused. Three initial and 31 DOL
15 reworks. I can't understand how 14, 3, and 31
16 relate to each other.

17 MR. HINNEFELD: What was the
18 statistic again?

19 CHAIRMAN MELIUS: It says 14 DRs
20 with claimants. In parentheses three initial
21 and then 31 DOL reworks within the past year.

22 MR. HINNEFELD: Okay. I think

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1 that's probably a typo.

2 CHAIRMAN MELIUS: Okay. There is
3 a similar one down below, 19 DRs in process,
4 five initial, 47 DOL reworks within the past
5 year.

6 MR. HINNEFELD: Again, those are
7 typos. Sorry about that.

8 CHAIRMAN MELIUS: Okay. The final
9 line was the one I also had a question on
10 which says three gathering information.

11 MR. HINNEFELD: I think probably
12 what happened, I'm guess that those were
13 reworks that came back to us with some new
14 information that we have to then maybe get
15 some clarification on the additional cancer of
16 the additional employment or something to that
17 effect. Or the employment was added and we
18 have to get some more information.

19 CHAIRMAN MELIUS: Okay. I'm just
20 trying to understand how there's a site that
21 hasn't been worked on at all or if there is
22 some other --

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1 MR. HINNEFELD: No. I think all
2 the sites we've -- I think we've worked on all
3 the sites. During the past year you guys know
4 we brought a lot of SEC petitions, 83.14s. We
5 tried to finish up a lot of them during that.

6 CHAIRMAN MELIUS: Okay. Thank
7 you.

8 Anybody else have questions for
9 Stu?

10 Dr. Ziemer, do you?

11 MEMBER ZIEMER: I have no
12 questions for Stu but I do have a general
13 question. I think this is for Ted.

14 Did you say that the slides and so
15 on or on the O: drive or where do I find
16 those?

17 MR. KATZ: Yeah, Paul. They are
18 on the O: drive. For most of the
19 presentations they are actually on the
20 internet for everybody and the public as well.

21 MEMBER ZIEMER: Okay. Well, on
22 the internet I found the agenda under the

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1 meeting but I didn't find the slides. Where
2 would those be?

3 MR. KATZ: They should be --

4 Chris, go ahead. Why don't you
5 come up to the mic so we can hear.

6 MS. ELLISON: This is Chris
7 Ellison. They are in the process of being put
8 up there. I believe by 10:00 a.m. this
9 morning.

10 MEMBER ZIEMER: Oh, okay.

11 MS. ELLISON: Okay? Sorry about
12 that.

13 MEMBER ZIEMER: On the regular
14 website under the meeting when you click on
15 that all you find is the agenda.

16 MS. ELLISON: And they will
17 eventually be listed under the agenda on both
18 the Advisory Board page and the public meeting
19 page.

20 MEMBER ZIEMER: Great. Okay.
21 Thank you.

22 MR. KATZ: Thanks, Chris.

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1 MEMBER ZIEMER: I have no
2 questions for Stu.

3 CHAIRMAN MELIUS: Okay. Thanks,
4 Paul.

5 Any other Board Members on the
6 line yet that have questions? Okay.

7 Lew. Lew Wade will now give us an
8 update on the 10-Year Review.

9 DR. WADE: Good morning. As
10 always, it's a pleasure and an honor to come
11 and speak to the Board. I must say I get
12 energized when I come and see all you fine
13 people and get to chat with you a little. I
14 sort of mourn the passing of this 10-Year
15 Review as we end it because I won't get to do
16 that so much.

17 I'm here and let me start by
18 introducing two colleagues, authors in terms
19 of the Phase I Reports, Randy Rabinowitz, and
20 Nancy Adams who are here in the room should
21 there be any questions about their pieces.

22 On Thursday you're going to have

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1 the opportunity to hear a presentation on the
2 quality of science, a piece that is going to
3 be presented by Doug Daniels and you'll get to
4 interact with Doug in a much more detailed way
5 concerning his aspect of the 10-Year Program
6 Review.

7 Let me remind you of the premise
8 of the 10-Year Review. The only reason Dr.
9 Howard decided to undertake such a review was
10 on the hope that this would result in a better
11 program. By better program we mean program
12 that will better serve the people that we're
13 here to serve, the claimants and petitioners.
14 That's the end result of it.

15 It was going to happen in two
16 phases. The first phase, which was to be a
17 data-driven look at aspects of the program.
18 There were five aspects of the program that
19 were to be looked at; dose reconstruction,
20 Special Exposure Cohort, timeliness, quality
21 of science, and quality of service.

22 They were to be data-driven looks

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1 at the program resulting in some
2 recommendations as to potential improvement.

3 Phrase II, which will begin in
4 earnest after this meeting, would be Dr.
5 Howard and the senior NIOSH leadership looking
6 at those recommendations and deciding which of
7 those recommendations should be implemented
8 and how exactly those recommendations should
9 be implemented to make a better program. So
10 Phase I and Phase II.

11 In terms of the status you now
12 have, I'm going to shutter to say, on the
13 website on the docket the five latest versions
14 of the Phase I reports. You've seen various
15 manifestations of them as we've evolved. You
16 now should have the five latest versions of
17 those reports in front of you.

18 The SEC report was, I think, the
19 last to appear as an edited document that is
20 there now, Randy Rabinowitz' report. So all
21 five of those are in your possession in near-
22 final form. I say in near-final form because

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1 they will be changed again based upon public
2 comments and we receive comments from this
3 Advisory Board. Hopefully they are nearing
4 their final form and probably by the next full
5 Board meeting they will be in final form for
6 you.

7 The Phase II will begin in earnest
8 when Dr. Howard convenes a meeting of his
9 senior leadership. It's scheduled for June
10 8th, next month, where they will start to look
11 at the recommendations that have flowed from
12 Phase I. Believe it or not there are 78
13 recommendations. A boat load of
14 recommendation have resulted from Phase I.

15 Dr. Howard and his senior
16 leadership will begin to look at those
17 recommendations and decide which should be
18 implemented and exactly how those
19 recommendations should be implemented again to
20 make a better program. That's where all of
21 this is going.

22 Now, what I'm going to do with the

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1 brief time I have with you today is sort of
2 highlight some of those recommendations. I'm
3 not going to go through all 78 of them,
4 although I'm sure we would thoroughly enjoy
5 the quality time we would spend together as I
6 went through all 78 of those recommendations
7 but we're not going to do that. I'm going to
8 highlight for you some of them that are the
9 author's picks as to their most significant or
10 highest priority recommendations.

11 The Board can react spontaneously
12 as we present in their working time. You
13 might have things you want to say to Dr.
14 Howard and his leadership. You can say them
15 on the record here and he will hear those
16 comments and will react to those comments.

17 You might lend your voice to
18 certain of the recommendations. You might say
19 that you don't agree with certain of the
20 recommendations. You might want to offer
21 additional recommendations. All that can
22 happen on the record.

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1 Certainly after this meeting
2 individual Board Members can communicate in
3 writing to Dr. Howard or myself in terms of
4 thoughts you might have. We would ask that
5 all of that be also made available to the
6 public docket. We've tried to make this
7 process as transparent as possible.

8 The Board might wish as a body to
9 offer its opinion to Dr. Howard. I talked to
10 some of you at breakfast this morning and you
11 said, "I'm sorry. I haven't gotten you this
12 comment or that comment." Let me tell you
13 that the Board has done a tremendous job in
14 terms of shaping this review.

15 If you read this review, a lot of
16 it is based upon the fine work that you guys
17 have done over the years. The Board has had a
18 great hand in the review to this point. I
19 know Dr. Howard would welcome comments by
20 individual Board Members or the Board as a
21 whole as he begins to move forward in terms of
22 choosing those recommendation that will form

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1 the basis of NIOSH's attempt to improve its
2 program.

3 Those are the introductory
4 comments. I'm sure this is all painfully
5 familiar to you because I've had this
6 discussion with you before. It is enjoyable
7 if you consider it in a certain way.

8 You have these documents. There
9 are all of these recommendations that exist in
10 your package. I'm going to go through and
11 highlight several handful of them to try and
12 engender a reaction from you or to simply put
13 on the record those that are considered to be
14 the highest priority by the authors.

15 I'll start with dose
16 reconstruction which was written by a very
17 able author, that was me. This author would
18 highlight Recommendation No. 1 which goes to
19 the fact that the Board in its review of
20 individual dose reconstructions has come to
21 several hundred findings.

22 I think it's incumbent upon NIOSH

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1 to reevaluate its QAQC programs to try and
2 understand why NIOSH internally didn't come to
3 these findings and the Board had to. I'm not
4 minimizing the importance of the Board's work.

5 I think it's wonderful that you're there to
6 find these things.

7 I do think that NIOSH based upon
8 the body of findings that have resulted from
9 the Board's review of individual dose
10 reconstructions, I think NIOSH really needs to
11 take a hard internal look in terms of its QAQC
12 procedures.

13 Let me pause here and say that
14 when Dr. Howard first spoke to you about this
15 review he also said he was not going to wait
16 for the review to be over to begin to
17 implement some of the changes. A number of
18 the changes that I'm going to highlight for
19 you under consideration I know Stu and his
20 people have already started to work on and
21 that's most appropriate.

22 I think this is one of them, but I

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1 think NIOSH in a public forum speak to its
2 QAQC efforts and begin to understand why the
3 Board review found these findings and they
4 weren't scrubbed by NIOSH before those
5 findings came from the Board so one
6 recommendation.

7 If you throttle down to No. 6
8 under the DR, this is a bit of a complicated
9 one. Let me speak to it a bit. This goes to
10 the fundamental tension that exist between
11 realizing the best possible science and the
12 need to get things done in a timely way.

13 NIOSH has issued many changes to
14 the manner in which it does individual dose
15 reconstructions based again upon the work of
16 this Board. When that happens NIOSH has to go
17 back and redo individual dose reconstructions.

18 When that happens that takes time.

19 People are confused as to why they
20 are getting now a new dose reconstruction
21 done. These is this fundamental tension that
22 exist between getting the science complete and

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1 right and the need to do things in a timely
2 way.

3 This recommendation goes to the
4 fact that NIOSH needs to better manage that
5 tension. Again, the people at DCAS need to
6 think about this. It is right to get the
7 science right. But it also creates confusion
8 within the claimant community as we go through
9 this process.

10 We have to think about ways to
11 manage both of those values, complete science
12 and the tension associated with the redoing of
13 dose reconstructions. You'll see this point
14 echoed again when we talk about Special
15 Exposure Cohort petitions because that tension
16 exist again.

17 When do you know that you've done
18 enough work to make a decision on an SEC
19 petition in a timely way versus chasing that
20 next piece of evidence that might be the magic
21 box that would allow you to move forward and
22 make a better "decision."

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1 This tension between complete
2 science and timing needs to be better managed
3 by NIOSH. Again, that's the basis of
4 Recommendation No. 6. At any point anyone can
5 chime in on any of these. Okay. Good. I've
6 got one agreement.

7 MEMBER ZIEMER: Can I chime in?

8 DR. WADE: Sure, Dr. Ziemer.

9 MEMBER ZIEMER: This is Paul
10 Ziemer. I just wanted to -- I appreciate
11 those comments, Lew, and I just wanted to echo
12 that. I think it's a very important issue
13 that we might need to deal with in terms of
14 maybe developing some guidelines.

15 We have this situation even now at
16 a number of sites. I think to some extent at
17 Mound, at Fernald, at General Steel
18 Industries. The tension between how much time
19 it takes to get the science just right and
20 closing out petitions is a very important
21 issue.

22 DR. WADE: I did change the

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1 wording, Dr. Ziemer, based upon your edits of
2 the report to best available science. In
3 inappropriately used "right science" and Dr.
4 Ziemer pointed out that employed that we were
5 using the wrong science.

6 MEMBER ZIEMER: Yeah, that was the
7 point I was trying to make. I just think the
8 issue is a key issue that we need to grapple
9 with and come to closure on in some organized
10 way because when do we make that decision that
11 we have gone as far as we should go?

12 DR. WADE: And when we come to
13 Randy's comments, you'll see this point
14 underlined again with regard to SEC petitions.

15 MEMBER ZIEMER: Right.

16 DR. WADE: In my report looking at
17 individual DRs it happens when the Board goes
18 through the review of a Site Profile. It
19 says, "We need to make certain changes."
20 Those changes trigger the redo of individual
21 dose reconstructions. That adds time but adds
22 confusion.

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1 I'm not saying it's wrong but it
2 needs to be managed consciously. I think Dr.
3 Ziemer is right. We need to think about
4 procedures for doing this that are uniformly
5 followed that people can understand. Again,
6 an important one to think about. Any other
7 comments on that one?

8 Brad.

9 MEMBER CLAWSON: I just wanted to
10 -- also one of the biggest things that I have
11 seen is communication. A lot of people when
12 we go into this process they don't understand
13 it and the process of communicating to them is
14 somewhat lacking. I don't know if that will
15 come up or not. A lot of these people are
16 older and so forth like that.

17 All of a sudden they've got one
18 dose reconstruction. Another one is being
19 done. To communicate to them kind of a little
20 bit more of a personal touch of explaining to
21 them that we have found that there are some
22 things we need to change. I think that is

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1 critical of the communication point.

2 DR. WADE: I think it's true. In
3 fact, that point will be underscored by No. 7
4 which is the third I would highlight here.
5 That goes to the use of over or
6 underestimating techniques, efficiency
7 techniques versus the performance of a full
8 dose reconstruction.

9 We do have situations where NIOSH
10 in an attempt early in the program to get
11 through this tremendous mountain of individual
12 dose reconstructions would say let's do an
13 overestimating approach on a dose
14 reconstruction and, as a result of that, still
15 result in a Probability of Causation less than
16 50 percent.

17 If there is a need to go back and
18 redo that dose reconstruction and redo a best
19 estimate for whatever reason, a new cancer,
20 additional employment, change in science.
21 Sometimes it comes back that the redo results
22 in a lower PoC.

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1 This makes sense to us sort of
2 scientific nerds inside the program. It makes
3 absolutely no sense to the people out there
4 who had 36 percent, another cancer. It comes
5 back 24 percent. This is an unclimbable
6 mountain for NIOSH to deal with from a
7 communications point of view.

8 In the report I find that the time
9 efficiencies realized by the use of over and
10 underestimating techniques really aren't so
11 great anymore. I'm not going to quote you the
12 numbers. They are in the report. If you
13 start to look at 2006, 2007, 2008, the savings
14 in time of using overestimating techniques is
15 not so great.

16 I would offer the perspective that
17 maybe it's time just to do best estimate dose
18 reconstructions and remove this conundrum of
19 how do you explain to people that a new cancer
20 resulted in a lower dose and things like that.

21 I think Dr. Howard will ask Stu to
22 consider this issue and to speak to the cost

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1 that will result in terms of the increased
2 time of only doing best estimates versus doing
3 efficiency approaches. I think maybe the time
4 has come to think about just doing best
5 estimates and not have to try to climb this
6 hurdle anymore.

7 Brad, this is a communications
8 nightmare that Solomon could not explain away
9 to people I don't believe. That's
10 recommendation No. 7. Any comments on that?

11 Okay. Now we'll come to No. 8.
12 This goes to the vehicle of partial dose
13 reconstructions. You guys know what that's
14 about. If you grant an SEC, then people with
15 the 22 cancers are compensated. People with
16 the cancer other than those 22 have to have a
17 partial dose reconstruction done.

18 I think the NIOSH, the Board, the
19 Department of Labor have done a wonderful job
20 of trying to see that partial dose
21 reconstructions can include as much reasonable
22 dose as is possible. I think we need to work

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1 harder at that.

2 The way you work harder at that is
3 making evermore precise the dose that is
4 excluded from consideration in doing a partial
5 dose reconstruction by the granting of a
6 Special Exposure Cohort petition. Again, you
7 have a little bit of an intellectual
8 conundrum.

9 To grant the SEC petition you have
10 to say, "I can't do dose reconstruction." But
11 it doesn't say I can't do everything. It
12 says, "I can't do this." This is enough to
13 warrant the granting of the SEC. Everything
14 else is in play.

15 I think the Board, I think NIOSH,
16 I think the Department of Labor, have moved in
17 a positive direction towards allowing as much
18 dose to enter into a partial dose
19 reconstruction as possible.

20 I think we have to work even
21 harder at it in the future to see that as much
22 dose is allowed in to a partial dose

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1 reconstruction once the decision has been made
2 to grant an SEC. Again, a fourth
3 recommendation that would be highlighted here.

4 Any comment on that? I know you
5 guys struggle with that through your
6 definitions. I think we just need to all work
7 harder at it so that people who are not on
8 that list of 22 cancers have their best shot
9 at getting allowable dose considered in their
10 partial dose reconstruction.

11 CHAIRMAN MELIUS: Lew, I'd have
12 one comment on that. My only concern there
13 because, first of all, I think we large do
14 that now and I don't think it's as much of a
15 problem as it may have been in the past.

16 Secondly, I do get concerned that
17 given how long it takes to do an SEC
18 evaluation and the review of that, adding
19 additional tasks to that process is just going
20 to delay it because I think the Board has some
21 reluctance, at least some of us do, of
22 approving the use of the method without having

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1 had the time to review it.

2 We tend to concentrate in an SEC
3 evaluation only on those exposures where there
4 might be difficulty doing dose reconstruction
5 or the situations. We don't tend to focus on
6 what can be done.

7 I know it's come up in the past
8 that by approving something that we haven't
9 reviewed, we then at least give DCAS sort of
10 the sense that the Board would then accept
11 that in other situations without the benefit
12 of any real in-depth review. I think the
13 Board does need to do a better job of coming
14 back and looking at sort of what we would
15 refer to as Site Profile issues.

16 You approve the SEC but there are
17 these other issues out there that need to be
18 looked at. I worry about trying to integrate
19 it too much into the SEC evaluation process
20 just on the basis of timeliness. You would
21 add another several months, I think, to the
22 process.

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1 DR. WADE: Point taken. I agree,
2 Jim. I think the record shows based upon your
3 comment, and I'll certainly carry to Dr.
4 Howard, I don't think that decision should
5 slow the decision of the SEC. Once that
6 decision is made, I think NIOSH has work to do
7 in terms of these Site Profile issues, as you
8 define them, to see what can be in and what
9 can be out. That's where I think the work
10 needs to be done, not prior to the making of
11 an SEC judgement. Point well made.

12 MR. KATZ: Bob, can you use the
13 mic, please? You have to turn these mics on.
14 Thanks.

15 MEMBER PRESLEY: This is Bob
16 Presley. On the SEC petitions I don't have a
17 problem with us granting SEC petitions, but
18 making some of these SEC petitions very, very
19 large so that they encompass a tremendous
20 amount of people that may not have had
21 anything to do with working with radiation.

22 It bothers me that cancer is one

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1 of the number one killers in the United States
2 whether you worked with radiation or whether
3 you didn't. It bothers me some that we have
4 broadened some of these SEC petitions not only
5 in the length of the SEC but also in the
6 broadness of not tying down these SEC
7 petitions to various parts of some of the work
8 environments. Thank you, Lew.

9 DR. WADE: I think that's
10 important point, Bob. Thank you for getting
11 that on the record.

12 Anything more? If not, we'll move
13 into the timeliness part that was ably
14 authored by Nancy Adams. No. 2, "NIOSH should
15 consider a target of 90 days or less to
16 complete the dose reconstruction once
17 information is in their hands."

18 Again, Stu talked this morning
19 about nine months. Again, this is the finding
20 of the author. I support the finding. I
21 think Stu would support it as well. It has
22 worked towards that but I think once

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1 information is in hand, once the tools are in
2 place that 90 days is a target that could be
3 achieved. It doesn't have to be achieved
4 overnight but I think the movement has been in
5 that direction from the years it used to take
6 to the year it took last June to the nine
7 months now. I think that 90 days might be a
8 reasonable target and I think the author feels
9 that.

10 John Howard can start to debate
11 that with Stu and his staff as to if and when
12 such a mark should be put in the sand but
13 wouldn't that be a glorious day when it was 90
14 days after the receipt of information that a
15 dose reconstruction was done. I think it's
16 within our sights.

17 No. 3, "NIOSH should give a higher
18 priority to return claims in setting its goals
19 for a timely completion of claims." Again, I
20 think this is something that Stu has begun to
21 work on. Again, you have this universe of
22 claims that need to be dealt with, new dose

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1 reconstruction and then rework claims. I
2 think the author's point, and I think I would
3 agree, that priority needs to be given to the
4 rework claims. People that have already been
5 through the process once and for some reason
6 have to go through it again, I think priority
7 should be given to those claims as opposed to
8 the next new claim. Again, I don't know if
9 you have any comments on those two timeliness
10 issues but they seem to make sense to me.

11 Now we are going to come to the
12 most provocative part of the report, at least
13 in my opinion, and that's the SEC piece, ably
14 authored by Randy Rabinowitz. I will
15 highlight some of the things but Randy is here
16 to talk about them should you wish.

17 No. 2 is an old favorite, "NIOSH
18 should revisit its interpretation of the
19 statutory phrase, "with sufficient accuracy to
20 give fuller effect to the role of scientific
21 uncertainty."

22 We've all struggled with the

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1 definition of that phrase and what it means.
2 Some of us feel there is a definition
3 somewhere. Some of us feel that there isn't.

4 I think Randy's point is that recognizing
5 that there is uncertainty that surrounds
6 everything, NIOSH needs to revisit its
7 interpretation of the phrase.

8 I think the Board talks about this
9 from time to time. I think this would be an
10 interesting one for Dr. Howard to begin to
11 discuss with his staff as to how we go about
12 that.

13 I don't know if there is any
14 comment on the record you would like to make
15 or, Randy, if you have anything you would like
16 to add on that one. Okay. Just a small
17 simple little sentence that carries with it
18 God knows how much work.

19 No. 3 is a complicated one. Let
20 me speak to it and then, again, if you have
21 comments or Randy can speak to it. "NIOSH
22 should recognize that SEC petitions often

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1 raise science policy questions where science
2 can inform the policy decision but that
3 science may not provide the facts to govern
4 these choices.

5 NIOSH should clearly articulate
6 these policy choices and should compare the
7 policy choices it makes in reconstructing
8 radiation dose across SEC petitions against
9 other occupational health policy choices."

10 This goes to things like the use
11 of coworker data, the use of surrogate data
12 where, again, these are not simply science
13 decisions but they do represent policy choices
14 that NIOSH makes.

15 Randy is saying, if I might
16 paraphrase for her even though she's here,
17 that NIOSH needs to clearly articulate these
18 decisions and then it needs to weigh these
19 decisions against other statements and other
20 policies it follows in other aspects of
21 occupational safety and health and, if there
22 are differences, begin to articulate the

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1 reason and the rationale for such differences.

2 We will be talking more about surrogate data
3 on Thursday, coworker data. I think this
4 points goes to that issue.

5 Randy.

6 MS. RABINOWITZ: This is Randy
7 Rabinowitz. I would add another layer to that
8 which is where there's scientific information
9 at stake and science can provide answers, then
10 deference to the judgment of scientists seems
11 most appropriate.

12 But when you are choosing among
13 really policy inferences, different people can
14 reasonably bring different conclusions to it
15 based on their own backgrounds and experiences
16 often from different disciplines. Scientists
17 don't necessarily have any monopoly on making
18 good policy choices in those instances. If
19 the policy choices are clearly articulated,
20 different decision makers may come to
21 different conclusions even if the science done
22 by DCAS is done well and done with high

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1 professional quality, it's not a critique of
2 their scientific work as much as just drawing
3 a different policy conclusion from the same
4 information.

5 DR. WADE: Bob.

6 MEMBER PRESLEY: Randy, when we do
7 this now do we document this information so
8 that down the road somebody can go back and
9 say, "Yeah, this is what we did?"

10 MS. RABINOWITZ: More or less well
11 depending. I don't think there's a consistent
12 approach to it. I do think not being a
13 scientist this may not be the greatest example
14 but I'll try and offer one. There are certain
15 uncertainties that surround all kinds of
16 model. If you articulate what those
17 uncertainties are, then it might be that the
18 Board says this is more uncertainty than I'm
19 willing to tolerate in my decision making.
20 It's not that the modeling exercise was bad or
21 it wasn't very sophisticated one but it's just
22 that this is more than I think is reasonable

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1 and different people can have different
2 judgments about it. Having the debate be
3 between DCAS and SC&A sort of masks the fact,
4 I think, that it's really just a policy
5 choice. Other people could equally
6 participate in the choice without in any way
7 diminishing the scientific quality of the
8 underlying evaluation.

9 MEMBER PRESLEY: Thank you.

10 CHAIRMAN MELIUS: Can I just each
11 back? I think if you look in both No. 2 and
12 No. 3 there are some key terms that we as the
13 Board struggle with every time we are
14 reviewing either dose reconstructions and more
15 likely the SEC evaluations.

16 Those are of sufficient accuracy,
17 claimant friendliness, plausibility situation
18 involved and so forth and that need to be
19 narrowed down or not necessarily in a
20 scientific way, though science would
21 contribute to that, certainly to the
22 sufficient accuracy but less so probably to

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1 claimant friendliness. I think coming to some
2 agreement and some guidelines on those I think
3 would be helpful for everybody involved in
4 this effort.

5 DR. WADE: I think if prudent ears
6 listen to the deliberations of this Board over
7 the years, there is much to inform that
8 process but it needs to be done. It needs to
9 be done and someone needs to put it down and
10 then let this Board react to it or let NIOSH
11 leadership react to it.

12 MEMBER CLAWSON: Lew, this is
13 Brad. Also the one that we hear quite often
14 is professional judgment. I won't take it
15 away, but these all kind of run together in
16 the issues that we deal with.

17 DR. WADE: Just keep your comments
18 for one second. I take you to No. 9 on
19 Randy's list which says, "NIOSH's heavy
20 reliance on expert judgment to evaluate SEC
21 petitions is an inherently subjective criteria
22 in the sense that reasonable experts can

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1 reasonably disagree about the outcome of any
2 petition.

3 NIOSH should consider developing
4 objective criteria to limit the exercise of
5 expert discretion so that similarly documented
6 exposures are treated similarly across sites."

7 Brad, I think that's your point.
8 I think that's Jim's point. I think it's an
9 important point. It's not an easy point.
10 It's not an easy thing to do but I think it
11 needs to be done.

12 MEMBER CLAWSON: Something that
13 Mr. Presley brought up was understanding what
14 the process and what has been done. One of
15 the things we've seen in the dose
16 reconstruction, and Stu is working on getting
17 a better -- when we look at their dose
18 reconstruction, we can't come up with how they
19 did it because there's been so many changes to
20 different work books and so forth like that in
21 the process.

22 We're trying now to be able when

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1 the dose reconstructor goes through this that
2 he makes a paper trail of what was used so we
3 can understand because we can't determine how
4 he did it.

5 DR. WADE: I think a very
6 important point Randy makes. It doesn't mean
7 that those of us who have practiced this art
8 before are bad people. It just means that we
9 can do a better job, a more definitive job, a
10 more repeatable job. I think that's
11 important.

12 Now I'm going to buck you down to
13 Nos. 19 and 20. "NIOSH should consider
14 creating presumptions to be applied across all
15 SECs. Such presumptions should be based upon
16 objective criteria. Increased use of
17 presumptions would create more timely uniform
18 decisions on SEC petitions."

19 No. 20 says, "In developing
20 presumptions under EEOICPA NIOSH should take
21 steps to ensure that its policy choices under
22 this program are either consistent with its

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1 policy choices on related issues and other
2 occupational health context are justified by
3 the different statutes and regulations for
4 each program."

5 When I asked Nancy for
6 illustrative presumptions, you might be
7 talking about dose reconstructions in the
8 1940s and early '50s. Maybe there needs to be
9 a presumption about those years that apply
10 across SEC petitions.

11 You guys have worked with Super S
12 plutonium and issues related to that. Maybe
13 these become presumptions that apply across
14 SEC petitions and we don't have to go through
15 each time and work those issues. Maybe we can
16 apply them across the board to petitions that
17 come in. I think that's Nancy's point.
18 Correct? Randy. I'm sorry. My wife's name
19 is Nancy.

20 MS. RABINOWITZ: I think a lot of
21 programs use presumptions so you don't have to
22 repeat it. I was struck with data from the

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1 40s or internal thorium doses. The Board and
2 NIOSH overwhelmingly SEC petitions are granted
3 for the absence of internal thorium monitoring
4 but there are few instances where NIOSH has
5 modeled thorium doses in the absence of
6 internal dosimetry.

7 One question I would have as an
8 outsider is it seems like that would be ripe,
9 fertile ground for a presumption. If you were
10 going to part from the presumption, then NIOSH
11 would have an obligation to just clearly
12 articulate the rationale for not applying the
13 presumption in a particular instance and it
14 would make it easier for the Board to judge on
15 a policy basis whether it agreed with that
16 choice or did not agree with that choice.

17 DR. WADE: Thank you, Randy. Not
18 a trivial discussion but one that needs to
19 take place.

20 I take you all the way down to No.
21 27, one little sentence that carries with it a
22 great deal of effort. "NIOSH should minimize

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1 revisions to Site Profiles while an SEC
2 petition is pending."

3 You know, it goes beyond those
4 simple words. This goes to the issue of if
5 the scientific basis for the evaluation of an
6 SEC petition is constantly changing, then what
7 burden does that put on the petitioners. The
8 whole issue needs to be rethought. We lived
9 through a number of situations where NIOSH
10 says "I'm going to do it this way." The Board
11 in its wisdom says, "Well, what about this and
12 that?" NIOSH says, "I think I'll do it that
13 way." Things change. It puts the petitioners
14 in a very difficult situation and that needs
15 to be thought through. I'm not saying that --
16 Wanda and I talked about fairness as a false
17 god earlier today. I'm not saying that
18 fairness is the answer to this but
19 consideration of the position it puts
20 petitioners in I think needs to be thought
21 about by NIOSH as it imagines how it will
22 conduct its business. Again, this goes back

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1 to the tension between getting it done to the
2 best available science versus the playing
3 field as it relates to petitioners. I think
4 that needs to be thought about. Or Randy
5 thinks that needs to be thought about.

6 MS. RABINOWITZ: One other comment
7 which is the more revisions there are to
8 method, the more it suggest to me that we are
9 not talking about scientific facts and we're
10 talking about inferences and policy choices
11 from science because reasonable people are
12 disagreeing about the methods and revising
13 them constantly. I think it's just an
14 illustration of an area where we are treading
15 not in fact but in science policy.

16 DR. WADE: Thank you.

17 CHAIRMAN MELIUS: I would just --
18 I noticed you left No. 8 off your list but you
19 had many to choose from and they were good
20 recommendation. I do think that is also key.
21 I think it's not just in terms of the
22 methodology. It's also in terms of data

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1 availability. I think as we recognized in the
2 last -- come to realize in the last year that
3 despite a lot of efforts to gather all the
4 data that DCAS and others think is available
5 for a particular site, there always seems to
6 be more data or new boxes discovered or more
7 information. If SEC evaluations will stretch
8 on for years, or the review of that stretches
9 on for years, then I think we're almost bound
10 to find new data along the way. That does
11 really further because it's not just new
12 methods. It's the new data that comes up. I
13 think at some point going back to the
14 recommendation on dose reconstruction, we just
15 sort of have to close the books and say this
16 is what we have now and let's reach a
17 conclusion. I think we all recognize that in
18 five or 10 or 15 years we may find more data.
19 We may understand the science better in some
20 way that these methods may -- what we thought
21 couldn't be done in terms of dose
22 reconstruction will now be feasible to do. We

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1 may have to revisit this, or revisit an SEC as
2 much as we revisit a dose reconstruction. I
3 think there needs to be some closure in terms
4 of that part of it also.

5 DR. WADE: Thank you. For the
6 audience No. 8 says, "NIOSH should consider
7 limiting the number of revisions it makes to
8 its SEC petition analysis." The harsh truth
9 be told, that is what I thought I put the star
10 next to and I put it next to the other one but
11 they both make the point. It's a terrible
12 thing to get old.

13 MEMBER CLAWSON: Lew, this is Brad
14 again. On No. 27 where it says, "NIOSH should
15 minimize revisions to the Site Profile," it
16 also is kind of a catch-22 because when we go
17 into the SEC a lot of things change and it
18 puts a lot of dose reconstructions on hold.
19 This is where the petitioners really have a
20 hard time understanding, "How come can't you
21 work it?" Some of these SECs have gone on for
22 four years or even longer.

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1 DR. WADE: This whole issue of the
2 tension of completing it, getting it as
3 complete as -- well, finding the best
4 available science and timing is, I think, a
5 mega issue. It appears in dose reconstruction
6 and it appears more here.

7 I'm going to skip over the quality
8 of science recommendations because you are
9 going to have your shot at the author Dr.
10 Daniels come Thursday. We'll go to the
11 seemingly innocuous but really not innocuous
12 recommendations relative to quality of
13 service. In my opinion, these are maybe the
14 most vexing.

15 I'll take you to No. 7 which is --

16 MEMBER ZIEMER: This is Ziemer.

17 Can I make one comment --

18 DR. WADE: Please, Paul.

19 MEMBER ZIEMER: -- on minimizing
20 SEC revisions, or Site Profile revisions while
21 an SEC is pending. I think in essence NIOSH
22 does try to minimize the number of revisions

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1 by waiting until all of the issues are
2 resolved on a Site Profile before a revision
3 is made.

4 That delay is actually
5 implementing a number of revisions that have
6 been agreed to. A case in point is General
7 Steel Industries where we have agreed to a
8 number of changes which would change previous
9 dose reconstructions because when you make the
10 change, then you have to go back and redo
11 those dose reconstructions.

12 There have been a number of
13 changes agreed to but they are not yet
14 implemented because not all of the Site
15 Profile issues have been resolved. In the
16 effort to minimize revisions, you are delaying
17 all of those things. Many of those are
18 underway while an SEC comes into play. There
19 is a down side to doing what No. 27 talks
20 about. That is not making the revisions as
21 you identify the issues.

22 CHAIRMAN MELIUS: Can I comment?

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1 I need that recommendation. I agree with what
2 you're saying, Paul, but I think that
3 recommendation goes to the issues of that as
4 part of the SEC evaluation review of that
5 evaluation where DCAS then in response to the
6 criticism then comes up with a new method
7 which is essentially --

8 MEMBER ZIEMER: Which is driven by
9 the SEC.

10 CHAIRMAN MELIUS: -- driven by the
11 SEC. I think that is the problem. I agree
12 with you that if it's another issue and there
13 are problems with the contracting process.
14 They may have already charged ORAU or whoever,
15 the contractor, with making changes to the
16 Site Profile. You don't want to stop that
17 process.

18 I think when the change or what is
19 going on in terms of Site Profile or dose
20 reconstruction methods is directed at the
21 major issue that is under consideration for
22 the SEC that it becomes problematic because

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1 you keep changing it.

2 We've had SEC Evaluation Reports
3 that basically say, "Well, we're going to try
4 this method. If this method doesn't work,
5 we'll get this data. If that method doesn't
6 work, we'll try a third time." I think that
7 part of it is the more problematic part. It's
8 not looking at something that is just an
9 agreement that dose reconstruction can be done
10 but it could be done in a better way and the
11 recommendation goes to that.

12 DR. WADE: The motivation to get
13 it right or to get it complete is a good one
14 but it goes against another value and those
15 values need to be laid out and decisions made.

16 I would like to put on the record
17 one very interesting finding from the DR
18 piece. About 20 percent of the dose
19 reconstructions that NIOSH does it redoes for
20 whatever reason; change in science, new
21 cancer, or new employment, 20 percent.

22 Of that 20 percent 10 percent have

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1 resulted in the Probability of Causation going
2 from below 50 percent to above 50 percent so
3 there is benefit to all of this rework. One
4 just has to put it in context. Enough said on
5 that.

6 If we go to the quality of service
7 No. 7, I won't read you all the words but just
8 the first sentence. "Not making changes to
9 dose reconstruction because no DOE records
10 were found seemed to indicate that DOE records
11 are more accurate (and I would add
12 parenthetically and more important) than
13 worker comments."

14 We've all heard this. I think the
15 recommendation needs to be considered by NIOSH
16 leadership where workers say, "I remember
17 this." They seem to come away with the
18 feeling that their comment doesn't carry the
19 work of some record.

20 Maybe that's true but that
21 communications issue needs to be dealt with.
22 It's not trivial. It's a terribly powerful

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1 point that was found here by Ms. Chang and I
2 think it needs to be talked about.

3 No. 10 reinforces something I
4 think Brad or Phil said earlier. That is
5 people feel they need more tutorials and
6 workshops available to them to understand
7 what's going on. We can always do a better
8 job of bringing information to those we serve.

9 I think that is a point that's made here and
10 I think it's a powerful point.

11 No. 13 and 14 is the last I'll
12 touch upon here. It basically speaks to the
13 fact that through the CATI process submission
14 of work history, although voluntary, they seem
15 to place a great burden on the worker and a
16 burden that is hard for them to meet because
17 they are just a person without the resources
18 of a government agency or a contractor. This
19 whole idea of burden and where burden falls,
20 even if you could say you don't have to do it,
21 it seems in people's mind that it's in their
22 best interest to do it, and yet there's a

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1 burden for them to meet that is hard for them
2 to meet. NIOSH needs to think about where
3 this burden is placed and how we might assist
4 in their carrying of that burden.

5 Phil.

6 MEMBER SCHOFIELD: I would like to
7 make one comment to that. Many of these
8 cases, particularly some of the older
9 facilities, you didn't talk about what you did
10 at home so your families don't really know
11 what kind of work went on behind those gates.
12 Because of security concerns you weren't
13 allowed to share any of this information.
14 That puts a great deal of burden on people who
15 have no way of knowing what happened.

16 DR. WADE: So I think this whole
17 issue of burden needs to be thought about.

18 That's the end of the
19 recommendations I would highlight. In the
20 minute I have, let me make one promise to you.
21 Dr. Howard will meet with his leadership.
22 He'll come to a list of recommendations that

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1 he thinks should be implemented and a draft
2 list of recommendations that he thinks should
3 be implemented and some beginning thoughts as
4 to how those recommendations should be
5 implemented. The Board will see that in draft
6 form before it's final. You will get to react
7 to Dr. Howard's reaction to this list of 87
8 and you'll have another opportunity to say, "I
9 think you left out something terribly
10 important. I think your approach needs to be
11 modified." So you'll get another bite out of
12 the apple when this comes back to you. Again,
13 Dr. Howard meets with his people in early
14 June. I don't know if we'll have something
15 for the next Board call. Certainly by the
16 next Board face to face you'll see a draft of
17 Dr. Howard's implementation plan and you can
18 react to that. Again, sorry for the long-
19 winded tutorial but I think it was worth
20 sharing this with you. Individual comments,
21 collective comments. Again, remember that we
22 value the transparency of this exercise.

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1 Anything you want to say to us as individual
2 Board Members, please say on the docket as
3 well so everyone can read your comments. The
4 docket will remain open for individuals to
5 make comment on not only Phase I but also Dr.
6 Howard's draft Phase II. Thank to the Board
7 for their forbearance today, but also for the
8 tremendous foundation you've provided for the
9 conduct of this review. You have to see
10 clearly your hand in the basis of what was
11 done here and I commend you for your work.

12 CHAIRMAN MELIUS: Don't leave yet.

13 Mark, are you still on the line?
14 You have one comment. Mark was going to be on
15 and off this morning. If not --

16 MEMBER GRIFFON: Yeah, I'm on.

17 CHAIRMAN MELIUS: Do you want to
18 make that comment?

19 MEMBER GRIFFON: Which one? I
20 have several.

21 CHAIRMAN MELIUS: Oh, go ahead.

22 MEMBER GRIFFON: Looking at the

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1 last section you presented, Lew, I was looking
2 at Item 3, and also later in that section,
3 Item 13, a couple things struck me. In my
4 opinion this is more than just a communication
5 issue with the claimant.

6 There is serious consideration
7 around the impression that they can provide
8 that and it can be useful in the overall
9 program of dose reconstruction. The same, I
10 guess, for Item 13 with the CATIs.

11 I think that is something that we
12 touched on in the Dose Reconstruction
13 Subcommittee as well for our first 100 cases
14 review. The other thing that strikes me is
15 that those two items are in the quality of
16 service section rather than dose
17 reconstruction section.

18 I wonder if that is something that
19 sort of is reflective of how NIOSH is
20 perceiving the use of that information. It's
21 more of a service to customer issue rather
22 than a serious information resource. I just

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1 wanted to make those comments.

2 DR. WADE: Point well taken. I
3 would encourage you to read this change report
4 where what she tried to do was listen to new
5 information that was presented by people in
6 CATI and then follow that through to see
7 whether or not NIOSH reacted to that
8 information or used that information.

9 That's the basis of the points
10 Mark is making. I never thought about what
11 you said, Mark, as to where it appeared and
12 whether that speaks to a mindset. I think
13 there is something maybe there to think about.

14 CHAIRMAN MELIUS: I agree. I
15 thought her report was very useful. Mark's
16 other comment, earlier comment I was referring
17 to, was in Randy Rabinowitz' report on the SEC
18 was No. 24 he wanted to highlight also.
19 "NIOSH should reduce delay between filing of a
20 claim and decision that a petition under 83.14
21 should be pursued." That may be more of a
22 process now but I think it speaks to the fact

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1 that we've had these long delays for giving up
2 on some of these 83.14s, or in terms, I think,
3 developing the information that would be
4 needed for doing dose reconstruction. I'm not
5 sure how many of those are left but on an
6 ongoing basis I think it would be helpful. I
7 think DCAS has been improving at doing that.

8 DR. WADE: This goes back to the
9 early triage, sites with large numbers of
10 cases and putting focus on those and let some
11 of the smaller sites to later in the queue. I
12 think that's partial explanation but I think
13 it's a good part. All of these will be
14 considered.

15 Ma'am.

16 MEMBER BEACH: I have a question.
17 It looks like you've gotten quite a few
18 comments from workers on the docket. I know
19 from the Board and other folks some of them
20 are making it into the report. Some of the
21 comments may be important but not to the level
22 of getting into these reports. How are you

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1 handling those comments to get back to the
2 public based on the comments that they've
3 made?

4 DR. WADE: Well, first, the
5 comments that come in are sort of triage to
6 the authors for consideration and then
7 inclusion. I think at the end of the process
8 it would be incumbent upon us if possible to
9 respond back to the author saying, "We heard
10 your comment. We modified the report in a
11 certain way." Or, "We heard your comment and
12 we didn't modify the report." In some cases
13 we don't know who made the comment.

14 MEMBER BEACH: Oh, is that true?

15 DR. WADE: Where possible I think
16 we would try to close the loop at the end.

17 MEMBER BEACH: Okay.

18 DR. WADE: Right now we're sending
19 the comments to the appropriate authors. They
20 are to be included in the appendix of each
21 report and the report is modified based upon
22 the office consideration as to whether it

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1 should be done or not.

2 MEMBER BEACH: I guess I was
3 interested in the ones that didn't make it to
4 any of the authors but it sounds like you --

5 DR. WADE: If it hasn't been given
6 to any author, it would appear in the final
7 summary. All the comments will appear. If we
8 didn't think it related to one of the five
9 sections, then it wasn't dealt with but it
10 would be included on the record.

11 MEMBER BEACH: I read some of them
12 and they are in a great deal of detail. Thank
13 you.

14 DR. WADE: Thank you.

15 MEMBER CLAWSON: Lew, I have one
16 more. On 27 where NIOSH should minimize the
17 revision Site Profile, that also falls under
18 something to the Board's responsibility,
19 especially as a Work Group chair myself. When
20 we go through this SEC process, we may have
21 20, 30, 40 different changes to the Site
22 Profile from the information that we receive

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1 but then we've got to go back -- say an SEC
2 was granted, we've got to go back to the Work
3 Group and assure that these changes were made,
4 too. I think that falls under the Board's
5 responsibility.

6 DR. WADE: This was not undertaken
7 as a review of the Board but we're in this
8 together.

9 MEMBER CLAWSON: That's part of
10 the thing is NIOSH takes that on but then we
11 don't see anything after that.

12 DR. WADE: Enough. Thank you.

13 CHAIRMAN MELIUS: Thank you, Lew.

14 Next on the program we have an
15 update from Department of Labor. I'm not sure
16 how you're going to do this. We have a new
17 person, a new face. Welcome, Gary Steinberg,
18 who -- I'm not sure of the exact title but
19 it's at the Department of Labor. I should
20 know this. I've heard you speak a few weeks
21 ago and I've already gotten the title.
22 Welcome, Gary.

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1 MR. STEINBERG: Thank you. It's a
2 pleasure to be here. Good morning to
3 everybody. I guess I want to start by
4 congratulating you on your 77th meeting. I
5 think that is certainly reflective of the
6 enduring value that the Board has and the
7 important role that the Board has in terms of
8 working with us in DOL, working with NIOSH,
9 working with Energy, and to carry out the
10 program in a highly effective way.

11 My name is Gary Steinberg and I'm
12 now the Acting Director for the Office of
13 Workers Compensation Programs. I guess I'll
14 put it into context. As I shared with you
15 just a couple of weeks ago, I'm new to DOL but
16 I'm not new to the federal government. I've
17 been in the federal government for 21 years.

18 I spent nine years at NASA so I
19 know a little bit about science but more of
20 the rocket science and the space science side
21 of things so I've had an opportunity to
22 support the Aeronautics and Space Program.

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1 I spent about three-and-a-half
2 years actually at HHS in one of the
3 headquarters organizations, and nine years at
4 the Department of Veterans Affairs. In that
5 respect, if you will, providing health care
6 and benefits as the Deputy Assistant Secretary
7 for Planning and Evaluation looking across all
8 of the programs in terms of where the
9 organization should be going and how the
10 organization can better serve the veteran
11 population and their families.

12 One of the opportunities, though,
13 that I had when I was at VA was to look at the
14 Department workers' compensation program and
15 the safety program. These were programs that
16 really were in difficult straits.

17 Our IG had done a comprehensive
18 review of the workers' comp program and
19 determined that there were a number of major
20 flaws with the operations of the program,
21 communications, training, a whole variety of
22 different things.

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1 We endeavored to, if you will,
2 evaluate the program and we put together a
3 strategic plan and an implementation plan.
4 This was all new to me but, quite honestly, I
5 was asked to lead the implementation of the
6 plan once it was developed.

7 Over a four or five-year period I
8 developed, if you will, a great appreciation
9 for the importance of all different types of
10 workers' comp programs. The reality over a
11 five-year period we became a best practice and
12 that's where I met Shelby Hallmark, the
13 individual who brought me to DOL and who
14 suggested that I be his successor.

15 Shelby's thought was with the
16 hands-on experience at the Department of
17 Veterans Affairs dealing with, if you will,
18 both planning, operational issues, and
19 implementation that I could bring some of the
20 best practices to DOL for not only the Federal
21 Workers' Comp Program but for the other
22 programs that we have responsibility for as

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1 well including the Energy Program, the Black
2 Lung Program, the Long Shore Program, and the
3 DBA Program where we provide service to
4 civilians who were supporting the government.

5 That's exactly what I hoped to be able to do.

6 With that, I really would want to
7 turn and applaud Stu and Lew and others at
8 NIOSH for after 10 years taking a
9 comprehensive look at their aspect of the
10 program and really being able to look and
11 coming up with 78 initiatives.

12 As you suggested, there are
13 probably more that have been melded into the
14 78 but you have an opportunity to really look
15 at where are we now. How do we move forward
16 after 10 years of operations.

17 How can we improve operations.
18 How can we improve efficiency. I've heard
19 talk about how we improve customer
20 satisfaction. That is something core to what
21 I want to achieve at DOL as well.

22 I won't go into the specifics of

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1 what we do at DOL because you already know. I
2 know that Rachel and Shelby have talked to you
3 in the past. Let me talk a little bit about
4 some of the things that I view as priorities
5 as we move forward and I think they directly
6 correlate with the conversation that you've
7 had thus far this morning. I think we're in
8 lock step and moving forward.

9 In organizations that I've gone
10 into and, again, I've been a senior executive
11 for 13 years, and oftentimes brought into
12 organizations that have problems either from
13 an operational perspective or a customer
14 satisfaction or an employee dimensioned
15 perspective, I don't think we have that within
16 the Office of Workers Compensation Program but
17 I do think we have an opportunity for
18 continuous improvement.

19 I think that's what NIOSH is
20 looking at as well. In that respect I really
21 see four overarching themes that we're going
22 to be looking at across all of our OWCP

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1 programs. The first is maintaining high
2 levels of customer satisfaction.

3 I've only been there for six
4 months but one of the things that we've
5 already instituted is a new electronic
6 customer satisfaction survey. It's not highly
7 complicated. It has seven questions to it.
8 We're looking at, not if you will, the outcome
9 and the decision with regard to a particular
10 claim but the nature of the interaction.

11 Was our staff responsive, did they
12 provide a timely response, were they
13 knowledgeable, were they able to provide
14 answers, were they courteous, and what was the
15 over level of satisfaction with regards to the
16 engagement and the interaction.

17 I think it's important we look at
18 that for anybody who wants to share with us
19 the good, the bad, and the ugly because the
20 good we can enhance. The bad and the ugly,
21 well, we need to be aware of that so we can
22 improve on things.

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1 I don't think we have too many bad
2 and uglies with respect to the nature of the
3 interaction. Clearly we are going to have
4 individuals who are frustrated on any one of
5 our four programs when their claim is denied.

6 I think what we're talking about
7 here in terms of making sure that we have a
8 good science based decision as to acceptance
9 or denial, that's fundamental to what we're
10 doing. Customer satisfaction, I think, is job
11 one from my perspective.

12 Two is continuing to enhance our
13 operations and our effectiveness. I talked
14 about continuous improvement. I don't think
15 that any of the programs that we have
16 responsibility need to be re-engineered. They
17 don't need to be blown up and restarted.

18 They need to be continuously
19 improved and we're going to be looking for
20 ways to continuously improve our operations,
21 our implementation, improving timeliness,
22 improving quality, improving the nature of the

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1 interaction with our claimants. Improving
2 internal and external communication.

3 That is something that you talked
4 about in terms of the dialogue, not only with
5 the claimants but with the stakeholders as
6 well. I think even with a program that is 10
7 years old there is always an opportunity to
8 improve the level of engagement, improve the
9 level of communication because things change
10 and people need to receive information as the
11 program changes and the requirements change
12 and so forth.

13 That's going to be the fourth
14 priority. I'm sorry, the third priority. The
15 fourth priority is working with our internal
16 workforce. I think, as everybody knows,
17 within the federal government we're, if you
18 will, at a cusp of the detention for
19 retirement.

20 I want to make our office an
21 office where people want to come to work,
22 where they feel motivated, they feel excited,

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1 they feel rewarded, and they want to keep
2 doing the great work that they're doing
3 because I think by in large we have a
4 passionate and highly dedicated workforce and
5 I want to make their work environment even
6 better for them.

7 Those are really going to be the
8 priorities that we're going to be focusing on
9 in the years to come. I think it coalesces
10 from what I've heard from NIOSH. I hope these
11 are concepts and theories that you endorse and
12 over time we'll provide you with updates in
13 terms of how we're progressing as an
14 organization.

15 When I look at those four
16 priorities, two of the things are really
17 fundamental to where we are moving forward on
18 the energy program. The first is obviously
19 outreach and community. I know that Rachel
20 and her leadership team have endeavored to
21 develop the joint outreach task force working
22 hand-in-hand with NIOSH, with DOE, with our

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1 ombudsman.

2 You play a role in that as well in
3 terms of the Board and in terms of your
4 findings and recommendations. We need to be
5 able to communicate to both stakeholders as
6 well as to claimants. That's a core function
7 in terms of moving forward.

8 It's something that I endorse and
9 it's something that we're going to be
10 monitoring and hopefully, again, we'll be able
11 to share more with you in terms of how that's
12 progressing, where we are experiencing
13 successes.

14 I welcome input from you in terms
15 of areas where you think we can do a better
16 job in terms of communication and outreach
17 both in terms of the fundamental tenants of
18 the program, what the eligibility requirements
19 are, what the process is, but also the changes
20 that are taking place as we look at the SECs
21 and we look at other aspects of the program.

22 The other areas from an

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1 operational perspective. Lew in his
2 discussion talked about timeliness. Obviously
3 that is something critical from our
4 perspective as well. It shouldn't take three
5 years to make a determination. It's something
6 that we should be able to do much sooner
7 because lives depend on this.

8 The well being of individuals
9 depend on this and it's something that we need
10 to do as quickly as we possibly can. Clearly
11 one of the things that I'm going to be working
12 with with Rachel with the help of you and
13 others is how can we make our process more
14 timely, more effective.

15 How can we maintain the high
16 levels of quality that we have. Those are two
17 of the things that I think have even been
18 reinforced this morning that we're going to be
19 focusing on as we move forward.

20 Before I turn the podium over to
21 Rachel, I guess I wanted to acknowledge just a
22 couple of people. With me today is Jeff

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1 Nesvet. Jeff has been the counsel, the
2 associate listener on this program since the
3 onset. He was involved in the development of
4 the statute.

5 I would suggest that there are a
6 lot of attorneys in the federal government, as
7 we all know, but I think he's one of the best.

8 I've worked in four different departments. I
9 think it's a rarity when you have an
10 individual who is so well versed on both the
11 program as well as the law. I encourage you
12 to spend some time talking with him over the
13 day.

14 Janette is our regional director
15 in Denver. I think she does a marvelous job
16 in terms of the interaction with the
17 stakeholder community, with the claimants and
18 so forth. She volunteered her and her staff
19 to come and help with some of the
20 administrative work over the next couple of
21 days.

22 I think that is emblematic of the

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1 nature of the program and the people that we
2 have. Then I'll finish off with Rachel who in
3 the short time that I've known her this is the
4 future of the government.

5 This is the type of people that we
6 need to nurture and grow because she's
7 passionate about the program day in and day
8 out, both of her employees as well as the
9 claimants that we serve as well as the
10 stakeholders that we work with.

11 I'm very pleased now to turn the
12 podium over to her. She's going to talk a
13 little bit about some of the things that we're
14 moving forward with and some of our
15 priorities. I look forward to the
16 opportunities to talk with many of you during
17 the day.

18 Although this is your 77th
19 meeting, this is my first meeting. You can
20 count on me being at more of these meetings.
21 I'm passionate about serving the public.
22 That's why I came to work in the federal

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1 government 21 years ago.

2 I think the Department of Labor is
3 the foundation of what serving the American
4 public is about. You can expect to see me for
5 many more years to come. I applaud you for
6 the work that you're doing for the individuals
7 who have supported the country in terms of our
8 nuclear weapons. Thank you and I look forward
9 to working with you in years to come.

10 MS. LEITON: Thank you, Gary.

11 I'm very happy that Gary is with
12 us. I think he's going to lend some positive
13 support to the program. I think we are going
14 to be able to work closely together on some
15 improvements on customer service and various
16 other factors in service to our workers.

17 Before I run through the
18 presentation, I just wanted to mention a
19 couple of things we have done in the last
20 year. We did have a customer service
21 satisfaction survey that we conducted last
22 year with all of our -- well, random

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1 selections of claimants. That included
2 survivors.

3 It included people who were denied
4 benefits, who were accepted benefits, who had
5 hearings, who had not had hearings just to ask
6 them what their experience was with the
7 process, with the letters that they got, with
8 the communication with our hearing reps and
9 our district office staff.

10 The results of that were actually
11 not -- they were fairly positive in that 71
12 percent of them said they would recommend the
13 program to others. Of course, we found that
14 the ones who had been denied benefits were a
15 little bit more frustrated than those who had
16 been approved.

17 One thing in particular that we
18 did take away from it, as I believe Lew Wade
19 had pointed out, is the complication of the
20 program and the frustration with the claimants
21 with the process. They don't understand all
22 the various complexities. That's one of our

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1 priorities that we've been working on in the
2 last year is to try to make it a little bit
3 more understandable.

4 We revised our procedure manual
5 for our claims examiners combining Part B and
6 Part E. As you know, we've had -- you may or
7 may not know we've had two separate procedure
8 manuals since we had two separate programs but
9 it's really one program.

10 We revised that and we've combined
11 it, updated it with various changes that have
12 occurred over the years. That's currently
13 online for everyone. It's helpful for our
14 claims examiners.

15 In addition to that we are about
16 to publish a new recommended decision chapter
17 which kind of makes the process for how we
18 explain the decisions a little bit easier for
19 the claimants to understand I'm hoping.
20 Basically the format is a little bit more
21 claimant friendly.

22 Various little things like that we

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1 are hoping to make a difference. We've also
2 developed more brochures that explain wage
3 loss, impairment, our process for recommended
4 decisions and final decisions. Those are the
5 sorts of customer service activities that
6 we're engaging in at the moment to just try to
7 help them understand, the claimants
8 understand, our process.

9 We are also going to be conducting
10 some more training at our district offices
11 that actually conduct training on a regular
12 basis that they have new staff or new
13 procedures come around.

14 Our national office staff is going
15 to go out and talk to our claimants and
16 families, train them a little bit on various
17 factions of the program that may be more
18 complex than others. I'm hoping that will
19 also help to improve customer service.

20 As Gary mentioned, we have new
21 goals that we are going to be looking at for
22 Fiscal Year '12. High priority goals with

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1 regard to overall processing times from
2 beginning to the end of the process. NIOSH
3 looking at your processing time will affect
4 our processing time in terms of those goals in
5 the years coming forward.

6 I think we've seen improvements in
7 the amount of time that it's taking at NIOSH.

8 I think working together with NIOSH we'll be
9 able to improve that overall for the claimants
10 who are the ones that become the most
11 frustrated with our processes and our
12 processing time.

13 In addition, our website we are
14 looking at ways to make it more claimant
15 friendly, help claimants so that maybe they
16 can determine and have a better understanding
17 exactly what the process means, where their
18 claim might be in the process, that sort of
19 thing.

20 We also have a new medical
21 director in the last year who has been working
22 with us on medical directives. She just

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1 conducted training with all of our district
2 offices. She is still in the process but I
3 think she's almost done.

4 Just on some basic concepts,
5 understanding better some of the cancer
6 diagnoses and all of our Part E conditions.
7 I've heard from the districts that's been a
8 pretty beneficial training for our claims
9 examiners.

10 She's also working with our
11 district medical consultants and having
12 regular telephone calls with them so that
13 their reports are a little bit more consistent
14 across.

15 It's always difficult for doctors
16 to have the same format and they are obviously
17 not going to have the same opinions but
18 understanding what causation means and that
19 sort of thing, what we are looking for in our
20 reports and how we can best serve our claimant
21 population. Those are just some of the things
22 that we're looking at right now, what we've

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1 been moving forward on.

2 Now I'll go through our
3 presentation. As most of you know, the
4 program was enacted in October of 2000. We
5 had a Part B and a Part D at that time. Part
6 D was administered by the Department of
7 Energy. Then in 2004 they abolished Part D
8 and they created a federal program called Part
9 B. All of the cases that were with Department
10 of Energy were transferred to Department of
11 Labor to administer Part E.

12 Over the last 10 years we've had
13 almost 144,000 cases filed. Now we've just
14 hit over \$7 billion of compensation paid to
15 date. As you know, we have four different
16 federal agencies involved in the program,
17 Labor, Energy, HHS, and Justice.

18 We do have four district offices
19 in Jacksonville, Cleveland, Denver, and
20 Seattle. Our Washington, D.C. national office
21 is in our Final Adjudication Branch. As I
22 indicated, of the \$7 billion we have a

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1 majority in Part B. The rest are in Part E
2 and 11 percent of that in medical.

3 For the number of payees that
4 we've actually been able to compensate, a
5 majority, again, are Part B cases, 60 percent
6 and 40 percent for Part E.

7 There are very important
8 distinctions between Part B and Part E with
9 regard to employment factors. That would be
10 that under Part E just DOE contractors and
11 subcontractors and that's also under B but B
12 is more inclusive in terms of coverage for DOE
13 federal employees, Atomic Weapons Employers,
14 beryllium vendors. Those are not covered
15 under Part E.

16 The relevancy to a case that is
17 accepted from NIOSH if it's a Part B case,
18 it's going to be accepted under Part E but
19 they have to have met these eligibility
20 criteria under E so those AWEs will not be
21 covered. RECA, Radiation Exposure
22 Compensation Act, is covered under Part B.

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1 Again, very important distinctions
2 between the two parts are the covered
3 conditions. Under Part E pretty much
4 essentially any condition that an individual
5 develops that is related to toxic substance
6 exposure would be covered. Under Part B there
7 are only four conditions; that's CBD,
8 beryllium sensitivity, chronic silicosis, and
9 cancer.

10 Survivor definition is also
11 different under Part B and Part E. As you can
12 imagine these differences are rather
13 frustrating and confusing to claimants but
14 that's the way the law was written. We try to
15 explain it to them as best we can. Basically
16 adult children are covered under Part B and
17 they are not under Part E. That's the main
18 distinction there.

19 Benefits between the two parts.
20 Under Part B there's a lump sum compensation
21 of \$150,000 for an employee survivor. For
22 RECA employees it's a \$50,000 lump sum. Under

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1 Part E it's impairment and wage loss.

2 Impairment is \$2,500 per
3 percentage of whole person impairment as
4 determined by a medical physician and testing
5 that's conducted. Or wage loss which is
6 between \$10,000 and \$15,000 depending on the
7 level of wages that were lost as a result of
8 the covered condition. For survivors under
9 Part E it's \$125,000. The cap is \$400,000.
10 The main difference for Part E really is that
11 they can receive ongoing compensation.

12 If they have an impairment and
13 then it worsens over the next two years, they
14 can file again. And the same for wage loss.
15 That can be an ongoing benefit which is
16 different from Part B which is just lump sum
17 compensation.

18 Some of the challenges that we
19 have are probably similar to the challenges
20 that NIOSH has with regard to the data that is
21 available out there. One of our challenges is
22 to verify employment and obtaining records.

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1 We go to various lengths to assist
2 claimants in verifying this employment that's
3 going to the Department of Energy first and
4 foremost. Then we also have access to the
5 ORISE database which has various information
6 about where people worked.

7 The Center for Construction
8 Research and Training, CPWR. We also look at
9 corporate verifiers, SSA wage data and
10 affidavits. This becomes very important, as
11 you know. When it comes to SEC Classes trying
12 to place people in particular locations can be
13 a challenge. A Class Definition is very
14 specific, that's where we run into challenges
15 at certain times. We try to work as closely
16 as possible with NIOSH to let them know where
17 our challenges may lie.

18 MEMBER FIELD: Can I ask a
19 question?

20 MS. LEITON: Yes.

21 MEMBER FIELD: For Social Security
22 wage information do you have data prior to the

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1 70s?

2 MS. LEITON: They have --

3 MEMBER FIELD: Employer specific?

4 MS. LEITON: Yes. Well, they do.

5 Often times that data is more scarce that they
6 have to go back to microfiche. They can do
7 it. It's a little bit more time consuming and
8 it's usually a certain cutoff where they
9 divide it into quarters, when they don't, but
10 we are able to get information from them.

11 Okay. Dose reconstruction
12 probably causation. Obviously dose
13 reconstructions are conducted by NIOSH and
14 determine the level and extent of occupational
15 radiation dose. A Probability of Causation is
16 undertaken which is a scientific calculation
17 of likelihood that radiation exposure, cause
18 of cancer.

19 Department of Labor uses the NIOSH
20 IREP database system to determine the PoC
21 based on the dose reconstruction what is
22 conducted by NIOSH. If once we have used that

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1 report and plugged it into the program, it's
2 50 percent or greater, then an individual is
3 compensated. Otherwise, they are not.

4 Special Exposure Cohort. Probably
5 don't need to go into this too much, as you
6 all know, but it's a worker group designation
7 of presumption that the occupational radiation
8 causes cancer. You have to have had 22
9 cancers that are named in the law. If you
10 don't, hopefully there's a partial dose
11 reconstruction available to the employees.

12 There's also employment work
13 criteria. In the majority of cases that's 250
14 workdays having worked in a particular
15 location for a particular time frame that is
16 defined by HHS. If an individual is
17 determined to have fit into that Class, they
18 do not have to undergo dose reconstruction.

19 There were four legislative SEC
20 Classes at three gaseous diffusion plants plus
21 Amchitka. NIOSH also designates new SEC
22 Classes and thus far there have been 72

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1 additional SEC Classes added as of May 24th.
2 We adjudicate the SEC Classes but we have no
3 role in the actual designation of those
4 Classes.

5 Just some of our statistics here.

6 We've approved overall 32,000 cases and about
7 22,000 have been denied. A majority of the
8 reason for that is the PoC less than 50
9 percent under Part B. Then the second is that
10 sometimes we do not get enough medical
11 evidence to support the claim.

12 Part E briefly. As I indicated,
13 you have to establish that any toxic
14 substances they were exposed to in the work
15 place caused the condition, caused,
16 aggravated, or contributed to a condition and
17 the causation standard is at least as likely
18 as not.

19 We have various tools that we work
20 with to establish causation under Part E. We
21 conduct occupational health questionnaires
22 with the claimants, either the employees or

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1 their survivors. We've developed a Site
2 Exposure Matrix which is basically a tool that
3 is used by our claims examiners.

4 We found that early in Part E our
5 claims examiners weren't able to place people.

6 They weren't able to determine what they
7 might have been exposed to. The claimants
8 were having a difficult time providing us with
9 that information.

10 Although it's their burden, we
11 wanted to help our claims examiners and help
12 our claimants to try to establish exposure so
13 we developed the Site Exposure Matrix working
14 in close collaboration with the Department of
15 Energy.

16 It's basically a database that
17 provides information about facilities, the
18 buildings that were there, what types of
19 exposures might have been there. Then there's
20 a link to Haz-Map which is a relational
21 database which determines in some cases what
22 an individual might have been exposed to that

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1 was related to a condition.

2 The SEM is not an end all and be
3 all. It's just a tool to assist the claims
4 examiners in adjudication and development of
5 the claim. We also rely on the document
6 acquisition request from the Department of
7 Energy, Former Worker Program work history
8 interviews, CPWR. The DOE had position panel
9 findings from Part D that we also used in this
10 determination. We also rely in some cases on
11 affidavits and facility records.

12 Under Part E this is our
13 distribution for final decisions. We have
14 approved almost 27,000. We have denied about
15 22,000. You'll see here that the PoC is a
16 factor in some of these denials. For cancer
17 cases related to radiation we do rely on the
18 dose reconstruction process for Part E.

19 We will be able to accept a cancer
20 if we determine that a different toxic
21 substance other than radiation caused it. In
22 a lot of cases since it is an "at least as

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1 likely as not" threshold we do rely on dose
2 reconstruction for that.

3 This is our information on the
4 NIOSH referral case status. As I indicated
5 earlier, I believe there's been a lot of
6 improvement over the last several years in
7 terms of the timeliness, the amount of cases
8 that have been returned from NIOSH. We've had
9 34,000 referrals and 32,000 have been
10 returned, some with dose reconstruction, 4,000
11 without dose reconstruction. Our records
12 indicate there are approximately almost 2,800
13 cases that are currently at NIOSH, 2,100 of
14 which are initial referrals and 668 which are
15 reworks or returns to NIOSH.

16 I know that Jeff has been through
17 this with you before. Our statistics
18 sometimes are a little at variance with
19 NIOSH's but that is partly because of the way
20 we define certain items.

21 SEC Classes that had been added.
22 There have been almost 3,300 cases withdrawn

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1 from NIOSH for SEC Class review. We've issued
2 almost 3,000 final decisions of which almost
3 2,900 have been final approvals. Right now we
4 have 24 recommended decisions awaiting final
5 decision.

6 There are 80 cases total pending
7 from all the SEC Classes and 275 cases were
8 closed. Either they weren't eligible -- for
9 some reason they were not eligible. We also
10 have five new Classes that were just added and
11 we're working on the bulletins for those.
12 We've actually been very successful in meeting
13 our goals.

14 Once an SEC is created we have
15 very specific goals for issuing a recommended
16 decision, particularly in those that have been
17 screened and determined will likely be in the
18 Class. They have 60 days to issue a decision
19 on that case. We've been measuring that and
20 have been successful.

21 We've been very lucky to have been
22 able to work closely with NIOSH in developing

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1 lists, on pulling back cases that may be
2 there. Our claims examiners are trained now
3 and have a pretty good understanding of
4 exactly what they need to be doing to screen
5 through these cases and pay the individuals
6 that should be approved as soon as possible.

7 NIOSH dose reconstruction case
8 status. This is just a breakdown of what I
9 basically said before. A majority are denials
10 for dose reconstruction cases but it's about a
11 35 percent approval.

12 Part B cancers with a final
13 decision to accept. Accepted dose
14 reconstruction cases about 7,600. SEC cases
15 obviously are the majority, 13,000. Then we
16 break it up a little bit. In some cases we
17 have a 50 percent or greater and an SEC status
18 just because there might have been an
19 acceptance under dose reconstruction and then
20 an SEC Class was added or a new cancer was
21 added, or something along those lines.

22 Part B cases sent to NIOSH.

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1 Monthly this kind of gives you a general idea.

2 As you can see it's pretty steady at this
3 point. We are getting to a steady state at
4 the Department of Labor with both Part B and
5 Part E. It hasn't fluctuated very much in the
6 last year. New Part B cases received monthly.

7 Again, this is just another breakdown that
8 shows pretty much a steady state of receipts.

9 Top four work sites are still
10 Hanford, Y-12, Oak Ridge, and Bethlehem Steel.

11 We've got some breakdown of these statistics.

12 You can review them at your leisure but they
13 are declining slightly over all in these four
14 top facilities. I think it just might be that
15 we've gotten all the cases that we can in some
16 of these situation and we are working through
17 them.

18 This is just a breakdown of AWE
19 cases versus our DOE cases received monthly.
20 While they are still pretty steady, we had a
21 little uptake in April but AWEs are always
22 smaller because they are smaller facilities

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1 and we don't get as many cases from AWE
2 facilities.

3 This is just a run-through and you
4 can look at these on your own. These are the
5 cases that we've received and the claims that
6 we've received from the various facilities
7 that are under discussion with the Board. The
8 majority have been from Hanford, Savannah
9 River Site, and then FMPC. The rest are
10 smaller but steady.

11 Then Part B cases filed. The
12 majority are NIOSH cases. Well, it's a good
13 portion. Thirty-five percent are NIOSH cases
14 and 36 percent other.

15 That's really all I have for the
16 presentation but I'm happy to take any
17 questions you may have.

18 CHAIRMAN MELIUS: Board Members
19 with questions for Rachel or Gary?

20 Yes, Brad.

21 MEMBER CLAWSON: I was just
22 wondering if a person filed under Subpart E

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1 and then receives a letter from you stating
2 that they are waiting pending a dose
3 reconstruction, or it's under Part E and it
4 doesn't need one, why would that be that way?
5 Is that verifying employment or --

6 MS. LEITON: No. Actually, the
7 only time that we would be waiting for a dose
8 reconstruction under Part E is if it's for a
9 cancer case for radiation exposure because the
10 definition as the law states is "at least as
11 likely as not" which we have defined to be a
12 50 percent or greater threshold.

13 For radiation it would be
14 inconsistent to be saying for radiation that
15 at least as likely as not threshold means
16 something different. It means the same. It
17 is confusing for claimants. It's the way for
18 consistency purposes that we've interpreted
19 the law.

20 It's a relation state. Basically
21 for anything else other than radiation for
22 cancer cases, we need to rely on the NIOSH

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1 dose reconstruction due to the way the
2 definition reads.

3 MEMBER CLAWSON: The reason why is
4 because this was actually a harmful substance.
5 He was a decon tech is what he was. His dose
6 levels weren't that high but the chemicals
7 that he dealt with and that's why he filed
8 under like --

9 MS. LEITON: We would look at that
10 separately. If there are other toxic
11 substances besides radiation, we definitely
12 look at that and there are instances where
13 we'll accept a cancer case that is related to
14 somebody besides the radiation when the dose
15 reconstruction is below 50 percent.

16 CHAIRMAN MELIUS: Phil.

17 MEMBER SCHOFIELD: When you use
18 the SEM database how is that applied because a
19 lot of these people have no idea what
20 chemicals they're exposed to and, in some
21 cases, we're talking an excess of 10,000,
22 15,000 different chemicals. How does that

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1 apply to a claimant's case?

2 MS. LEITON: Well, basically we
3 look at the job category, where they worked,
4 what buildings they may have worked in and
5 that narrows it down in the database. If a
6 person files and they worked at Hanford, we
7 can talk to them and say, "Do you know what
8 building you may have worked in?"

9 Or even if we don't know what
10 building they may have worked in, if they know
11 what job category they worked in, that may
12 narrow it down to what buildings. Within
13 those buildings and within those job
14 categories we've been able to gather enough
15 records to establish these are the things that
16 likely this person would have been exposed to
17 in this building in that job category.

18 As I said, it's not the end all
19 and be all and we are always updating it. We
20 take information from the public and we are
21 constantly doing research with DOE records to
22 update it. It is a struggle for the claimant

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1 and that's part of the reason we developed
2 this Site Exposure Matrix was to help them
3 determine -- help us determine what they might
4 have been exposed to.

5 MEMBER SCHOFIELD: Let me throw
6 out this scenario. You have people who for
7 whatever their job category is may not
8 directly work with the chemicals but they go
9 through these laboratories. They go through
10 all these rooms with all these different
11 chemicals maybe once or twice a day. They are
12 taking recordings.

13 They are checking security,
14 checking doors, whatever it is, but they are
15 in these facilities day in and day out. Even
16 though their job category doesn't say they
17 work with these chemicals, they are around
18 them constantly.

19 MS. LEITON: That's part of the
20 reason that we do occupational history
21 questionnaires. It's also part of the reason
22 that the Site Exposure Matrix is not a

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1 decision making tool. If they are not in
2 there, if their job -- you know, if they say
3 they may have been exposed to something, in
4 particular when they say it, their doctor says
5 it, their records show it, and it's not in the
6 SEM, we don't rely solely on the SEM.

7 In some cases we've had cases
8 referred to national office where we have
9 industrial hygienists that will review the
10 information, the specifics of the case, and
11 say this is what we determined. This person
12 likely would have been exposed to for this
13 duration.

14 Then we make a causation
15 determination based on medical evidence using
16 whatever resources we can to get that medical
17 evidence. The SEM is just a tool when we
18 don't have other information. If it's not in
19 there, we will seek further information. We
20 will not deny it based solely on the SEM.

21 CHAIRMAN MELIUS: I have a couple
22 questions and actually a couple requests.

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1 I'll start with the requests. The
2 information, the new communications
3 information you've talked about for claimants,
4 could you share that with the Board when
5 that's ready because it would be --

6 MS. LEITON: Sure. You mean our
7 brochures?

8 CHAIRMAN MELIUS: Brochures and so
9 forth. I think it would be useful given we do
10 the public comment periods and just for us to
11 understand how you're communicating there and
12 hopefully we can --

13 MS. LEITON: We can send you the
14 weblinks with that information on it.

15 CHAIRMAN MELIUS: Whenever that's
16 ready.

17 The second request is sort of
18 related back to Lew's presentation. One part
19 of the Quality Assurance Program for dose
20 reconstruction is the review that is done by
21 DOL as cases go and then the reworks that you
22 ask for.

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1 I think a number of years ago we
2 got a presentation from DOL on cases that were
3 referred back sort of by category and so
4 forth. Pete Turcic came in and did that.
5 Maybe my memory is off. I think that would be
6 useful at some point.

7 MS. LEITON: The number of
8 reworks?

9 CHAIRMAN MELIUS: Well, number but
10 also classify why were they sent back.

11 MS. LEITON: Right.

12 CHAIRMAN MELIUS: I think it helps
13 us understand is there something because we
14 have our own program for reviewing dose
15 reconstruction. It's a little bit different
16 obviously. I think it's useful in terms of
17 understand the process and so forth.

18 It may not have changed and a lot
19 of it is just new information becomes
20 available on the second cancer or job site
21 information or whatever. I think it's helpful
22 for us to understand that at some point.

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1 Third item is actually a question
2 and that is the Rocky Flats issue with
3 Ruttenber Data.

4 MS. LEITON: I know this has been
5 a challenge for a while now. We keep telling
6 you that we're going to get you an answer. We
7 actually are much closer. We've been working
8 with NIOSH on this. Our struggle currently is
9 what the neutron dose means in the Ruttenber
10 database. We are working with NIOSH on that
11 determination.

12 In terms of the buildings, we are
13 also working with DOE. I was hoping to have
14 an answer for you today. I really hope to
15 have an answer to you by next time.

16 CHAIRMAN MELIUS: Okay. Thank
17 you. We'll ask again next time.

18 MS. LEITON: I'm sure you will.

19 CHAIRMAN MELIUS: Okay. Then my
20 final question goes back to, I think, part of
21 the hardest issue we have, at least from the
22 Board's perspective, in working with you, and

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1 it's just a difficulty we share, and that's
2 the Class Definition issue that comes up. We
3 struggle with it.

4 I think we've gotten better with
5 it over the 10 years or so but it still is a
6 problem trying to come up with -- one is for
7 us to define a Class in conjunction with NIOSH
8 on a particular site is re-review the
9 information site and then how do you turn that
10 Class into something that's workable or
11 useable by the Department of Labor.

12 I think it's probably best
13 discussed on individual cases because every
14 situation is different in terms of what is
15 available but it's certainly something we
16 would like to continue to work with you on and
17 communicate as much as possible on so we sort
18 of get the intent of the SEC turned into
19 something that you can implement.

20 MS. LEITON: Right. I do really
21 appreciate those efforts and the efforts of
22 NIOSH to share your ideas on it. Our biggest

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1 thing is always can we place them there. If
2 DOE can't provide us with records or we don't
3 have any other methods to get them in a
4 particular location that has made the Class,
5 then we are going to have to deny these cases
6 in which case it kind of defeats your purpose.

7 I do appreciate that collaboration.

8 CHAIRMAN MELIUS: Thank you.

9 Paul or Mark on the line, do you
10 have any questions?

11 MEMBER ZIEMER: Dr. Melius, I have
12 a question.

13 CHAIRMAN MELIUS: Yes.

14 MEMBER ZIEMER: First, let me
15 thank both Gary and Rachel for their excellent
16 presentations.

17 Rachel, I would like to ask a
18 question that has been kind of an ongoing
19 question of mine over a number of years but
20 I'm going to ask it in a slightly different
21 way. It has to do with the final number that
22 cranks out of the Probability of Causation

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1 calculation, the IREP Program.

2 I'll ask it this way. Does Labor
3 have an official policy on the number of
4 decimal places to which they make the
5 calculation? The reason I ask that is I've
6 always maintained that two decimal points are
7 unjustified by the uncertainty in the
8 calculation.

9 I believe one is also unjustified.

10 The question boils down to why aren't we
11 going to simply whole numbers? The official
12 policy on that that demands two decimal places
13 is a misleading figure in my mind.

14 MS. LEITON: I'm going to have
15 Jeff Kotsch help me with this, our resident --

16 CHAIRMAN MELIUS: I thought that
17 is why Jeff Nesvet came. We haven't seen you
18 for a number of years.

19 MR. KOTSCH: Jeff Kotsch, DOL. We
20 still adhere to the number of decimal points
21 that NIOSH provides is generally the way the
22 output comes which is two decimal places.

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1 MEMBER ZIEMER: Is that a policy -
2 - or an official policy?

3 MR. KOTSCH: I have to hesitate.

4 MS. LEITON: I think we basically
5 adhere to what NIOSH --

6 CHAIRMAN MELIUS: Legal counsel is
7 really going to --

8 MEMBER ZIEMER: They really show
9 me that Labor has to make the decision on that
10 issue.

11 MR. NESVET: Well, I think this is
12 something we'll probably have to talk to NIOSH
13 about. One has to keep in mind that the
14 Probability of Causation regulations are
15 regulations that are issued by the Department
16 of HHS, not the Department of Labor. We do
17 our best to interpret those regulations and we
18 clearly work with HHS in shaping them. Some
19 of you folks recognize me.

20 I've been around the block on this
21 program for some years starting from before it
22 was a program. To the extent that we need a

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1 legal interpretation of decimal points, that
2 is something we would have to work with HHS to
3 come to so I don't think we're in a position
4 to give you an answer right now.

5 MEMBER ZIEMER: I've got a burr in
6 my saddle. I think at some point, and maybe
7 the 10-Year Review should bring this up, and I
8 haven't raised that in the 10-Year Review with
9 Dr. Wade, but it would seem to me to push
10 anything beyond a full number is really a
11 stretch from a scientific point of view.

12 That means, for example, a 49.7 is
13 a 50 percent. You can't scientifically say it
14 isn't. It's that kind of issue. I don't know
15 at what point we are in a position to address
16 this but I thought I would at least get it on
17 the record.

18 I think it's very misleading even
19 I think to claimants to think that we can do
20 this to two decimal places. We're at four
21 significant figures. That's personal. I
22 don't know if the other Board Members agree

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1 with this but it certainly is an issue in my
2 mind.

3 CHAIRMAN MELIUS: I think now that
4 you've raised it, Paul, I think we probably
5 would be interested in an answer.

6 I will tell you, Jeff, we didn't
7 wait five years or however long it's been
8 since you've been to a meeting. We haven't
9 saved up the question.

10 MR. NESVET: I appreciate that.
11 I'll be back in another five years. That is
12 something we can talk to NIOSH. We may have
13 to get some interpretation of that. As I
14 said, it is an HHS regulation that we are
15 bound by so we certainly are bound in this
16 instance to consult with the authors of the
17 regulation, one of them I see in front of me.

18 CHAIRMAN MELIUS: Who's not being
19 helpful either. Okay. Thank you.

20 Anybody else? Josie. I'm sorry.

21 MEMBER BEACH: I just have a quick
22 question, Rachel. You mentioned the survey at

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1 the beginning of your presentation. I don't
2 know if I caught it. Is that available on the
3 website so we can look at those results?

4 MS. LEITON: It is not currently
5 but we are working towards putting the results
6 online.

7 MEMBER BEACH: Okay. Thanks.

8 CHAIRMAN MELIUS: Anything else?
9 Okay. Thank you, Rachel.

10 MS. LEITON: Thank you.

11 CHAIRMAN MELIUS: Thank you, Gary
12 and Jeff. We appreciate you coming here.
13 Thank you for the presentations, the updates.
14 We look forward to seeing you all again.

15 Next item on our agenda is
16 Department of Energy. I do want to give you
17 -- we will do this presentation and then we
18 will take our break.

19 LaVon, I think you're going to get
20 bumped.

21 He expects it, you know. I think
22 Friday morning -- no. Guess Pat didn't make

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1 it so Greg is here. Okay.

2 Welcome, Greg.

3 MR. LEWIS: So I'm Greg Lewis with
4 the Department of Energy, Office of Health,
5 Safety, and Security. Pat Worthington was
6 planning on being here but couldn't make it.
7 She assures everyone she will be at the August
8 meeting in Hanford so you've got me for today.

9 I'm going to talk a little bit
10 about how we support the EEOICPA Program over
11 at the DOE. Again, the Office of Health,
12 Safety, and Security is the office that
13 administers the program and coordinates within
14 DOE. We work closely with all of the field
15 sites, at least over 20 that have a
16 significant role in the program.

17 Our core mandate at the Department
18 of Energy is to work on behalf of the program
19 claimants to ensure that all available worker
20 and facility records are provided to DOL,
21 NIOSH, and the Advisory Board.

22 Today I'm going to talk first

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1 about our responsibilities and the role of the
2 DOE. Then I'm going to talk a little bit
3 about some initiatives that we've been doing
4 over the past few months. Then I'll talk
5 about another program that closely relates to
6 the EEOICPA Program, the former Worker Medical
7 Screening Program, and then I'll take
8 questions.

9 Many of you have seen this before
10 and we are getting close to a break. If I'm
11 going too fast or you have questions, please
12 feel free to stop me.

13 We have three main
14 responsibilities under the program. We
15 respond to individual records requests from
16 the Department of Labor and NIOSH for
17 employment verification, radiological exposure
18 records, and other exposure records.

19 We provide support to large-scale
20 records research projects at various
21 facilities. This would be, of course, the
22 Special Exposure Cohort projects, Site Profile

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1 updates, as well as things the Department of
2 Labor does like Site Exposure Matrix.

3 Then our third responsibility
4 which is somewhat smaller but equally
5 important is to conduct research along with
6 the Department of Labor and NIOSH on issues
7 related to covered facility designations.

8 So for all three of those things
9 at the Department of Energy we primarily rely
10 on our site point of contact, POCs as we call
11 them. We have one at every Department of
12 Energy facility out there and they are really
13 the backbone of our program.

14 They coordinate all records
15 research activities with NIOSH, the Advisory
16 Board, and the Department of Labor. They set
17 up site visits and tours, some of which can be
18 extremely complex and can require coordination
19 and participation from many site departments
20 and security and things like that so those can
21 be a little bit tricky.

22 They work with DOL and NIOSH to

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1 identify subject matter experts and put them
2 in contact with the right person on site that
3 can answer the many complex questions that
4 these researchers seem to have.

5 Then, of course, they manage our
6 site's response to individual records
7 requests. I'll get to that later but we do
8 close to 20,000 records requests a year which
9 keep these POCs pretty busy.

10 Then they are also an onsite
11 source of information to current workers, and
12 even former workers if they still have a
13 relationship with the site because many of our
14 POCs have been working on site for 20 or more
15 years. They have contacts within the
16 community, within the site. They often help
17 individuals if they are trying to file or to
18 get to the right agency, whether that's DOL or
19 NIOSH.

20 Just to give you an example of
21 something that is somewhat outside our scope
22 but it gives you an example of what our POCs

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1 do, recently one of our POCs was attending a
2 local meeting sponsored by the Cold War
3 Patriots, a nonprofit group. She was
4 attending just to provide information on DOE
5 and what we do and how we process records
6 requests.

7 She started talking to a gentleman
8 who was explaining to her that he planned to
9 file a EEOICPA claim and he had a brain tumor.

10 He was waiting until after he had surgery,
11 which was the next day, just because
12 everything had been crazy with going to
13 doctors and that whole process.

14 Immediately our POC explained that
15 if he were to file today and he could get in
16 the program because the Department of Labor
17 would be the primary payer if his claim was
18 eventually compensated the payment for the
19 medical care would be retroactively applied to
20 the date where he filed.

21 Because she was aware of that and
22 familiar with the program, she contacted -- I

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1 don't know if it was the resource center or
2 the local district office had them contact
3 that gentleman that afternoon and got his
4 claim filed. I believe he was compensated
5 but, either way, it's knowledge of the program
6 and things like that that our POCs really
7 provide to both their current and former
8 workers.

9 So for individual records we
10 respond to about 7,000 employment
11 verifications from the Department of Labor,
12 about 4,000 requests for radiological data
13 from NIOSH, about 7,000 what we call DARs,
14 document acquisition requests, which are
15 requests for other exposure data, IH, medical
16 records, things like that that show what the
17 worker might have been exposed to.

18 In FY 2010 we responded to about
19 17,000 records requests, In FY 2011, which
20 goes through October, we anticipate responding
21 to about 18,000 this year.

22 With our records request we have a

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1 fairly involved process to respond to those.
2 Claimants often worked at multiple DOE sites.
3 They might have worked at multiple divisions,
4 had multiple job titles on site throughout
5 their career.

6 When we prepare a records package
7 it can be hundreds of pages long and it can
8 consist of medical records, as I've seen
9 before, radiological records, badging,
10 incident and accident reports. It can have a
11 number of different components.

12 We also have to go to many
13 different sources. One site, as I have on the
14 slide up here, routinely checks about 40
15 different sources for response of records
16 including hard copy records, microfilm,
17 microfiche, database scan records.

18 They both consist of different
19 formats in terms of electronic or paper, but
20 they can also depending on the years worked
21 have to go to multiple different sources for
22 the same type of record because some of our

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1 sites change contractors every five to 10
2 years. They often brought in a brand new
3 system, a brand new database.

4 For example, if a worker worked
5 from 1970 to 1990, we may have to go to one
6 database for records from '70 to '75, another
7 database from '74 to '82, and so on. It's not
8 just a matter of going to a file cabinet and
9 pulling out an individual's record. We really
10 have to dig and it's more of an investigatory
11 process.

12 The second main function that we
13 have is to support large-scale records
14 research projects. These can be very
15 challenging for us because we often don't have
16 a lot of heads up. The project will just
17 start. We need to juggle existing funding to
18 make sure that the right site has the right
19 funding to support the project.

20 It's also difficult to tell how
21 extensive a project is going to be. As you
22 guy know and as Lew was discussing before, the

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1 more you find the more you might need to dig
2 or, at least, that's how it ends up being at
3 some of our sites. We really try to make sure
4 the right funding is in place and we have the
5 right resources available to support the needs
6 of NIOSH and the Advisory Board and the
7 associated contractors.

8 With the large-scale records
9 research projects we also review not all but
10 many of the records for classification related
11 concerns. We have reviewed millions of pages
12 so far at our various sites. This can be a
13 difficult and time-consuming process.

14 In addition, this is also an area
15 where a site has a certain available staff or
16 classification of reviews. Typically they
17 have a somewhat constant workload. When the
18 researchers for this program come in, you
19 know, it can be over a period of months or
20 even a year or more.

21 The volume can go up considerably
22 so if they have a site visit, you know, it can

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1 take the site two, three, four weeks or more
2 just to review the records requested during
3 that one site visit.

4 Many times by the time they are
5 done reviewing those records, the researchers
6 are back for another visit. We've had to hire
7 subcontractors or even bring back retired
8 classification officers to help review for
9 search capacity.

10 Here are a few of the projects
11 that we are supporting right now. Some of
12 these are just starting. Some are hopefully
13 wrapping up, we believe. I'll talk a little
14 bit about a few of them.

15 With Sandia we've supported five
16 visits since August. I believe we have
17 another visit scheduled -- we are starting to
18 schedule it for the July/August time frame.
19 We are also supporting requests for Ross
20 Aviation and Medina and Clarksville with
21 Sandia. Medina and Clarksville are also
22 something that we're supporting at Pantex

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1 because as closure facilities those records
2 were spread throughout a couple locations.

3 We scheduled a meeting at DOE
4 headquarters back in April to get Members of
5 the Advisory Board, SC&A, NIOSH, and everyone
6 together to review the classified information.

7 Unfortunately, that happened to be scheduled
8 the week after the almost government shutdown.

9 As Ted knows, we held off until
10 about Friday at 1:00 before we ended up having
11 to cancel that. Of course, they averted the
12 shutdown about 11:55 for thereabouts so I
13 guess if we had held off until Saturday
14 morning, we might have been able to do it.

15 Unfortunately we had to postpone
16 it and weren't able to reschedule until mid-
17 June but we're going to be supporting that
18 visit in mid-June as well as a site data
19 capture visit which we have heard may be the
20 last one. Of course, you never know but it
21 looks like things are coming to a close there
22 so we are glad to have been able to support to

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1 these visits.

2 At Savannah River we've supported
3 over 10 different data capture visits over the
4 last year or so. We continue to support these
5 data capture efforts, although they seem to be
6 more targeted toward specific issues now.

7 Now, with our document reviews all
8 final documents, all final reports that are
9 created by NIOSH, the Advisory Board, SC&A,
10 etc., go through DOE headquarters for a
11 classification review. We believe we've
12 gotten our process pretty much down at this
13 point. We follow our security plan in terms
14 of protocol.

15 They are sent in to our
16 headquarters and we get them back typically
17 within about eight working days. I guess
18 since February, since the last Board meeting,
19 we've had 61 documents submitted and the
20 average has been eight days. In certain cases
21 we've done them in one or two when necessary.

22 Actually, back to that last slide.

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1 I will also say we do struggle -- I see Brad
2 over there. We do struggle somewhat with our
3 DOE sites, with headquarters, because it's
4 centralized. Because we work closely with
5 that one office, we are able to make sure that
6 those documents are returned in eight days.

7 I know at our sites it's certainly
8 not as quick as eight days. But also at our
9 sites they are more reviewing source documents
10 and not reports so whereas the reports might
11 be 10, 20, 30, 40 pages, source documents
12 could be hundreds of pages and could have been
13 created back in the '40s or '50s.

14 It's both difficult to review and
15 the classification officer may not have the
16 expertise because it's 40 or 50 years old so
17 they may have to refer to the guides quite
18 frequently and go off information that they
19 need to look up.

20 Again, it's a slower process. We
21 try to get them to return documents as quickly
22 as possible. When SC&A or NIOSH alert us to

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1 problems, we try to resolve those as quickly
2 as possible.

3 Then with general SEC support we
4 have routine conference calls. We have our
5 site experts participate in Advisory Board
6 Working Groups in conference calls. We
7 facilitate secure classified meetings and
8 discussions like I was just talking about with
9 Pantex.

10 The third, and final,
11 responsibility the Department of Energy has
12 under the program is facility research. We
13 actually maintain the database of over 300
14 facilities covered under EEOICPA. That's
15 AWEs, beryllium vendors and DOE facilities.
16 We work closely with DOL and NIOSH to conduct
17 research.

18 There are facilities where we
19 added years or have taken years away based on
20 new information. We've also added
21 descriptions, or even added new facilities.
22 Any time new information comes to light we

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1 take a look at that, we'll conduct an
2 independent research effort on our part to
3 find new information and try to make the right
4 decision as far as facility coverage.

5 Our Office of Legacy Management
6 supports us in that. I have a bunch of
7 information on the slide but essentially they
8 are a records management office within DOE so
9 they understand records. They understand
10 where they would be.

11 They also have experience with the
12 DOE history in understanding how the facility
13 is related, where they might need to go to
14 find the right records to respond to an
15 inquiry.

16 Now I'm going to talk a little bit
17 about some of the initiatives we've been
18 undertaking in the last few months. We have
19 an ongoing effort to identify any additional
20 records useful for EEOICPA. Just one example.

21 At the Hanford site recently as part of the
22 SEC research there was a collection uncovered.

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1 I believe it had to do with source terms.
2 I'm sure Sam Glover can correct me if I'm
3 wrong.

4 Anyway, they found this collection
5 and realized the way it was indexed was not as
6 useful as it could be to both NIOSH and for
7 DOE to respond to claims so we are going
8 through with an indexing effort right now.
9 Because they are classified records we had to
10 hire normal employees with Q clearances and we
11 have them on a separate subcontract.

12 They are actually working weekends
13 for the next few months to index and get this
14 collection into useable form. Of course, we
15 didn't make them work weekends. This is
16 something they wanted to do, extra money.

17 It ends up being both efficient
18 for us and probably the fastest way to get
19 this collection into useable format. There is
20 always a few things like that going on around
21 the complex. We are just starting one at
22 Kansas City Plant as well.

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1 The Site Exposure Matrix effort.
2 I talked about this a little bit at the last
3 Board meeting. We started the initial review
4 back in, I believe, it was 2009. We started
5 it in early 2010 and finished at the end of
6 2010. It took about a year. We were able to
7 review the entire database and provide
8 clearance for DOL to put that online, which
9 they have done.

10 Almost immediately after this was
11 finished in early January we started a second
12 review of the information, the new information
13 that has been submitted since we started our
14 initial review. Of course, when we started
15 our review we cut off the database and made
16 sure it was static because if it's constantly
17 changing, it's going to be extremely difficult
18 for us to review.

19 Almost immediately after
20 completing the initial review we started the
21 second review. It took about four months for
22 the second as opposed to a year for the first.

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1 Just within the last few weeks we responded
2 to DOL that there were no problems with the
3 database.

4 I believe they are going to be
5 getting that update up there, if they haven't
6 already, within the next few weeks I would
7 imagine. So outreach. I know Gary mentioned,
8 I think, the outreach efforts that have been
9 going on in coordination with DOL and NIOSH.

10 The Joint Outreach Task Group was
11 created a few years ago to combine efforts
12 between DOL, NIOSH, the Former Worker Medical
13 Screening Program, the Office of the Ombudsman
14 for DOL and NIOSH with the general idea that
15 all of these groups are trying to reach the
16 same population so with combined efforts we
17 could both create efficiency in terms of the
18 cost for outreach and reach more groups with
19 the same effort.

20 We think it's been very
21 successful. We had, I guess, about 19 town
22 hall meetings within the last year. The next

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1 meeting is, I think, scheduled for Chicago in
2 early June. If anyone wants more information
3 about that meeting, they can just let me know.

4 So the Former Worker Medical
5 Screening Program is the other program
6 administered by my office, HS-14. The mission
7 of the Former Worker Screen Program is to
8 identify and notify former workers at risk for
9 occupational diseases. We provide them free
10 medical screening. We do it close to their
11 home. We have established screening programs
12 near the larger DOE communities, Oak Ridge and
13 Savannah River and Hanford, things like that.

14 But we also have two national
15 programs, the National Supplemental Screening
16 Program which contracts through clinics
17 throughout the country to provide screenings
18 to former production workers, and the Building
19 Trades Medical Group which also contracts with
20 local clinics to provide screenings around the
21 country for former construction and trades
22 workers.

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1 For this area the local screening
2 programs are the National Supplemental, as I
3 mentioned, and the Building Trades Program.
4 There is contact information on the slide. I
5 believe these slides will be up on the NIOSH
6 website eventually once they post the
7 information for the meeting. Of course,
8 anyone can contact my office if they want more
9 information about these programs.

10 With that, does anyone have any
11 questions?

12 CHAIRMAN MELIUS: Well, thank you,
13 Greg, for a good update.

14 Anybody with questions? Your
15 timing is good. You go up against the break
16 and everybody is quiet.

17 MR. LEWIS: This is a first. You
18 can put me before the break next time.

19 CHAIRMAN MELIUS: Paul or Mark on
20 the line, do you have questions?

21 MEMBER ZIEMER: I have no
22 questions.

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1 CHAIRMAN MELIUS: Okay. Thanks.
2 Mark was going to be in and out. Okay. With
3 that then, it's 10:43. Why don't we come back
4 around five after 11:00. Thank you.

5 (Whereupon, the above-entitled
6 matter went off the record at 10:45 a.m. and
7 resumed at 11:09 a.m.)

8 CHAIRMAN MELIUS: If everyone
9 could get seated, we'll get started. We'll
10 get started again and welcome Dr. Lockey who
11 has joined us now. He got on his plane this
12 morning and made it after abandoning the
13 airport last night. Tornado watch -- warning.

14 Ted, you want to check the line?

15 MR. KATZ: Yes. Can I check to
16 see which Board Members we have on the phone
17 line right now?

18 MEMBER ZIEMER: Paul Ziemer here.

19 MR. KATZ: Hi Paul. How about
20 Mark Griffon. Are you with us?

21 Mike Gibson, are you on with us by
22 any chance? Okay.

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1 CHAIRMAN MELIUS: Okay. As I
2 mentioned earlier, we're going to skip LaVon
3 and go to -- LaVon is a short presentation.
4 We can fit it in maybe 5:00 a.m. tomorrow
5 morning if anybody wants to come. No, we'll
6 find time in some of our Board work time for
7 that.

8 So we'll have an update now on the
9 HHS proposed rule on CLL, Jim.

10 DR. NETON: Thank you, Dr. Melius.
11 My formal remarks probably won't last the
12 full hour so depending on the Board
13 discussion, maybe there will be some time to
14 fit Bomber in after all.

15 It is with great pleasure, I have
16 to say, that I am finally able to get up here
17 and present to you HHS' formal position, or
18 NIOSH's formal position on chronic lymphocytic
19 leukemia and its inclusion as a covered cancer
20 under EEOICPA.

21 It's been going on for quite some
22 time, as most of you know, and many of you

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1 might suggest probably too long. I would say
2 this is probably one of the most challenging
3 scientific issues that we've had to deal with
4 in this program. Not only from the risk model
5 perspective, which is somewhat complex, but
6 also from the dose reconstruction aspect as
7 well which I'll cover a little bit later in my
8 remarks.

9 The proposed rulemaking issue was
10 issued in the Federal Register March 11th, a
11 little over a month ago. The comment period
12 is out there and ends officially, I think,
13 June 20th so there's still plenty of time to
14 comment. Most recently I looked at the
15 regulatory docket and I think we have right
16 now only three comments listed in the docket.

17 Before I do forget, the regulatory
18 docket is out there. I'll have a link to it
19 later in my presentation but it's also
20 reachable from our DCAS website. You can
21 click to get over there. Not only the docket
22 but also the option to make a comment if so

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1 desired.

2 A little bit about the background
3 that most of you already know. I think I
4 presented pieces and parts of this at various
5 Board meetings. This is the first time I'm
6 able to sort of put it all together. As is
7 well known, CLL is the only cancer that the
8 Probability of Causation is zero under the
9 Probability of Causation rule in 2002.

10 That decision was a conscious
11 effort on NIOSH based on a couple facts. One
12 was the unavailability of existing
13 epidemiologic studies that demonstrate a link
14 between radiation and CLL. There were studies
15 out there that were suggestive. Many had
16 negative risk coefficients and some have
17 positive but nothing out there that would
18 conclusively link CLL.

19 In general even among the
20 radiation research bodies that exist and make
21 comments on these risk models, there was
22 pretty much a consensus of opinion in 2002

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1 that CLL should be considered non-radiogenic.

2 To some extent that thought pattern persist
3 in some organizations.

4 Probably as important is the
5 feasibility of development of quantitative
6 risk model. Even if we determine that CLL was
7 radiogenic, as you know, most of the risk
8 coefficients were generated using the life
9 span study of Hiroshima and Nagasaki
10 survivors.

11 In the entire cohort the 80,000 or
12 so people in that cohort there were only four
13 cases of chronic lymphocytic leukemia total
14 which is not many to develop a quantitative
15 risk model from.

16 In fact, I think it was estimated
17 that only maybe one of those were possibly
18 related to radiation exposure out of four but
19 the numbers are so small it's hard to tell.
20 That's due to the fact that CLL is a rare
21 cancer in the Japanese population. Much rarer
22 than it is in the U.S. population. We'll talk

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1 a little bit more about that later.

2 At the time of the publication of
3 the Probability of Causation rule in 2002,
4 this was listed in the preamble, that NIOSH
5 was committed to revisiting the decision on
6 radiogenicity as new scientific information
7 became available. We kept our ear to the
8 ground and over time evidence started to
9 emerge that made us start to rethink that
10 position.

11 Continuing on to summary of
12 activities, I just made a couple of brief
13 slides on this because it has been a long
14 process. It started way back in, I think,
15 2004 when a public meeting was convened by the
16 NIOSH Office of Energy Research Programs to
17 evaluate this radiogenicity issue.

18 That was using some money that was
19 earmarked by Congress and funded directly to
20 the Office of Energy Research Programs to look
21 at this issue. The meeting was one aspect of
22 it. Also NIOSH at that time engaged in some

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1 additional leukemia-type research of their
2 own.

3 At the end of this meeting the
4 participants determined that the current
5 evidence was still inconclusive. They were
6 looking at it from a purely scientific
7 perspective. Although some new information
8 had emerged to possibly make one think that
9 CLL could be radiogenic, there was nothing
10 still conclusive on the table.

11 Subsequent to that meeting NIOSH,
12 and that is specifically DCAS or OCAS at the
13 time, polled subject matter experts regarding
14 the radiogenicity of CLL from a slightly
15 different perspective. We asked the question
16 is there sufficient evidence to continue to
17 disregard CLL as a radiogenic cancer under
18 EEOICPA compensation program.

19 If you think about it, that's a
20 slightly different question to be asked. The
21 majority of the reviewers, three out of five
22 reviewers supported the position that CLL

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1 should be considered radiogenic. There's a
2 couple reasons for that.

3 One is that new epidemiologic
4 information had emerged that even though the
5 risk coefficients were positive but not
6 statistically significant, there were more and
7 more studies out there indicating that, yes,
8 maybe there was a connection between radiation
9 exposure and CLL. A lot of it had to do with
10 the way the data were analyzed as a function
11 of latency period.

12 Secondly, if one thinks about this
13 from a biological plausibility issue, is it
14 really reasonable to conclude that CLL is the
15 only cancer that could not be caused by
16 radiation given what we know about the way
17 radiation causes cancer and that it
18 specifically damages DNA.

19 Given that, it was hard to fathom
20 why CLL couldn't at least plausibly be caused
21 by radiation. There's a number of reasons why
22 the epidemiologic data was not informative and

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1 those have been wide reported in the
2 literature. Partly because it's a disease of
3 old age. It takes years to develop.

4 It's also been misclassified many
5 times. It's a hard one to nail down with a
6 specific ICD-9 code. It's often been
7 considered to be -- it could be misclassified
8 as hairy cell leukemia or small lymphocytic
9 lymphoma. Those sort of things make the
10 epidemiology a little bit less than robust in
11 trying to determine the radiogenicity.

12 Anyway, bolstered by the -- there
13 were two reviewers that did not support the
14 position. One reviewer was neutral on the
15 subject and basically said the information was
16 still in her opinion inconclusive. There was
17 one reviewer out of the five that concluded
18 that it was not radiogenic CLL.

19 In fact, that same particular
20 reviewer also felt that lymphomas in general
21 were not -- if they were radiogenic they would
22 be radiogenic themselves. Bolstered by the

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1 three out of the five reviews as a supported
2 position CLL should be considered, we started
3 to conduct some research into appropriate risk
4 model for CLL.

5 When I say we, we actually engaged
6 the services of SENES Oak Ridge, Inc., our
7 dose risk model contractor. They are the same
8 organization that developed in consort with
9 National Cancer Institute the risk models that
10 currently exist in NIOSH IREP.

11 They did a detailed look into the
12 molecular biological basis, the epidemiology,
13 and the clinical basis of what was going on
14 with CLL to see if a risk model could be
15 assembled. I'll talk a little bit more about
16 that later.

17 Concomitant with that effort we
18 also -- these first two bullets should be
19 reversed to get the chronology right. We are
20 also doing research into the dosimetric target
21 organ for chronic lymphocytic leukemia because
22 being a disease or cancer of the lymphocytes

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1 it was not clear to us at that time what
2 target organs should be reconstructed when we
3 did dose reconstructions.

4 Lymphocytes are present throughout
5 the body so is there one particular organ that
6 we need to consider or is it more diffuse?
7 Well, the answer as it turned out was, in our
8 opinion at that point, that the lymphocytes
9 are diffusely disseminated throughout the body
10 in both the hematopoietic system; that is, the
11 bone marrow and the blood stream, as well as
12 the entire lymph system of the body. That
13 created somewhat of a difficult situation for
14 us to reconstruct doses.

15 We came up with that concept and
16 Oak Ridge was the main player in this helping
17 us out. We did pull subject matter experts on
18 a draft opinion on this. I think we pulled
19 three subject matter experts and they agreed
20 with us that the etiology of CLL -- the origin
21 of the cancer could be anywhere in the
22 lymphatic or hematopoietic system and we

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1 proceeded to develop a dose model based on
2 that concept.

3 After the risk model was drafted
4 and dose reconstruction approach completed, it
5 took sometime and it wasn't until actually
6 January of 2010 that both of those pieces were
7 finalized within NIOSH. Shortly thereafter on
8 March 11th of 2011 we issued a Notice of
9 Proposed Rulemaking in the Federal Register.

10 As I mentioned regarding the CLL
11 risk models, SENES Oak Ridge conducted a
12 comprehensive review of public papers that
13 were out there. There were a lot of
14 epidemiologic papers out there, notably those
15 published by David Richardson, John Boice.
16 There was an entire issue of the British
17 Journal of Hematology that covered CLL that
18 NIOSH researchers including Schubauer-Berigan
19 and Silver contributed to.

20 We considered all those in context
21 and also compiled sex and age specific
22 incidence rates because the incidence rates in

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1 Japan, as I mentioned, were very low and it
2 would certainly not match those, we didn't
3 expect, in the United States.

4 The third bullet here, one thing
5 that is probably one of the more significant
6 issues with CLL is the critically evaluated
7 epidemiologic data related to the issue of
8 latency. CLL has been considered a disease of
9 old age. A latency period was considered to
10 be much longer than that of other leukemias,
11 for example.

12 Certainly of leukemias and
13 actually even longer than those of solid
14 tumors that we consider in NIOSH IREP. There
15 was a lot of effort put into that. In fact,
16 that was one of the larger sources of comments
17 we received when the model was reviewed.

18 So as a starting point, SENES Oak
19 Ridge used the existing myeloma and lymphoma
20 model as a starting point for the model. One
21 might remember that we have one model that
22 covers non-Hodgkin's lymphoma, lymphoma, and

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1 multiple myeloma.

2 That model is based on 117 cases
3 that were in the life span study of the
4 Japanese Hiroshima and Nagasaki survivors and
5 those were used. We took that model and then
6 developed an extended latency period tail on
7 that model.

8 One of the reasons that we thought
9 this was a good starting point is CLL is
10 classified now as a form of non-Hodgkin's
11 lymphoma by the World Health Organization.
12 Given that it's no longer in the leukemia
13 realm.

14 At least in the World Health
15 Organization's eyes it's a lymphoma, although
16 that is inconsistent with the ICD-9,
17 International Classification of Disease
18 Registry, which still considered it leukemia
19 but we strongly believe that the lymphoma
20 designation is correct.

21 Again, start with a multiple
22 myeloma lymphoma model and then extend the

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1 latency period. The original draft model had
2 a latency period of 15 plus or minus five
3 years.

4 As with other risk models, it's
5 not a set value. The risk is very low. It's
6 short latency period and there is an S-shape
7 function that increases over time to confer
8 maximum risk at some point out in time.

9 As I said, we did have the model
10 reviewed by four subject matter experts. I
11 think two of them were the same ones that we
12 asked the opinion on radiogenicity. We
13 received a number of comments, reviewed those
14 comments, and adjusted the model -- the
15 document as appropriate.

16 But the major modification was to
17 the risk model. One major modification risk
18 model was the latency period which was
19 shortened from 15 plus or minus five years to
20 10 plus or minus five years. There was some
21 evidence that there is a fair amount of
22 uncertainty of the latency period with CLL and

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1 that has a lot to do with the way it's
2 diagnosed in the field.

3 Oftentimes CLL is diagnosed sort
4 of coincidentally to other illnesses when a
5 person goes in for a checkup. It oftentimes
6 has no real clinical symptoms until it's
7 fairly far progressed.

8 This is just a graph of the
9 latency adjustment. Maybe I should explain
10 this a little bit. The Y-axis here is a
11 latency adjustment which is some fraction of
12 the full excess relative risk per sievert.

13 If you look at .5, the 50 percent
14 value, that would be 10 years. Then the
15 dotted lines are the uncertainty about that
16 latency adjustment plus or minus five years.
17 At 10 years one gets 50 percent of the excess
18 relative risk per sievert and an uncertainty
19 factor is included in there as a triangular
20 distribution of plus or minus five years.

21 The lower bound would be five
22 years, the upper bound would be 15 years.

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1 This latency adjustment will be incorporated
2 into the multiple myeloma lymphoma model for
3 the CLL excess relative risk per sievert
4 calculation.

5 One thing we wanted to do was to
6 sort of do a reasonableness check on the
7 model. Let's quantitatively look at the model
8 and see what kind of Probability of Causations
9 that it generates because this is a brand new
10 model and no one has ever looked at it before.

11 We evaluated the model under a
12 somewhat restricted exposure scenario and that
13 was recalculated for males exposed between 20
14 and 40 years of age who were acutely exposed
15 to one sievert of high energy gamma radiation
16 so about 100 rem of gamma radiation exposed
17 earlier in their career between 20 and 40
18 years of age.

19 This will give you a sense of what
20 the Probability of Causation results might be
21 for someone exposed externally with a uniform
22 beam of photons. Although the analysis was

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1 restricted to males, the results should be
2 similar for females and that's because the
3 same risk coefficient is used for both.

4 It turns out in the multiple
5 myeloma and lymphoma in the Japanese survivor
6 data the point estimates for risk in females
7 is negative. It's only positive for males so
8 we've applied the male positive estimates for
9 use in this model.

10 What we found, I have a table to
11 show this, the PC results were greater than 50
12 percent for some cases under some
13 circumstances. This slide is a little small
14 and potentially hard to read but what you see
15 here, and I highlighted in yellow on the
16 slide, one reaches greater than 50 percent
17 only under situations of the latency time of
18 greater than 10 years and for early ages at
19 exposure like 20 and 25 years.

20 You can't get over 50 percent in
21 this graph if you are exposed over 30 years of
22 age to one sievert of external radiation.

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1 Interestingly, I put the 50th percentile on
2 here and none of the 50th percentiles which,
3 of course, we don't use approach the 50
4 percent value.

5 There are certain circumstances
6 under 100 rem of external radiation that would
7 be compensated under this specific condition.

8 I would say that 100 rem of external exposure
9 is a fairly significant dose. We rarely see
10 that in current days.

11 I would think in the very early
12 years in situations where you had a lot of the
13 pitchblende ore processing going on, maybe in
14 the Mallinckrodt era where they were doing a
15 lot of that, you could get to that level. It
16 would be fairly difficult to be compensated.
17 The probability is not zero but you need some
18 fairly substantial external doses to be
19 compensated for CLL under this circumstance.

20 Let's talk a little bit about the
21 dose reconstruction methodology. I mentioned
22 CLL is a disease that originates from a

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1 population of lymphocytes and specifically of
2 mature B lymphocytes, and more specifically
3 antigen stimulated mature B lymphocytes. I've
4 learned a lot in the research of this program.

5 We would call those precursor
6 cells, CLL precursor cells these antigen
7 stimulated mature B lymphocytes that can
8 circulate basically throughout the lymphatic
9 and hematopoietic system.

10 As we learned in our review, and
11 our subject matter experts concur, these
12 lymphocytes could undergo transformation to
13 CLL clones anywhere in the blood forming or
14 lymphatic system. Because of that, a dose
15 reconstruction for a non-homogeneous exposure.

16 The biggest example this, of course, would be
17 internal dose must account for this.

18 If you inhale plutonium we all
19 know it's going to preferentially accumulate
20 in certain organs once it becomes systemic.
21 Strontium-90 the same way. The dose to the
22 CLL precursors is going to be very different

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1 from an internal perspective depending upon
2 the radionuclide that is inhaled.

3 Because of that we're proposing to
4 use a probabilistic approach based on the
5 weighted average of the doses to the various
6 irradiated sites. I've got a couple slides
7 that hopefully can give you a feel for how
8 that is going to work.

9 This is a slide of the
10 distribution of lymphocytes in the body along
11 with their 95 percentile confidence intervals.

12 You can see that about almost 90 percent of
13 the B cells reside in the lymph nodes, the
14 spleen, bone marrow, and the intestine.
15 Nonetheless, there are 12 various sites where
16 these lymphocytes could reside and 13 if you
17 count residential soft tissue component.

18 The biology is not extremely well
19 known and that's why we put confidence
20 intervals about these values because this
21 represents the range of our knowledge based on
22 the current available science.

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1 If one knows the distribution of
2 lymphocytes and one knows the uncertainty
3 about that distribution, then one could
4 calculate an effective dose to the B
5 lymphocytes in a spreadsheet type calculation.

6 That's what is portrayed here in this example
7 of dose calculation.

8 Here we have -- it's kind of hard
9 to read, I understand, but I couldn't figure
10 out a way to fit this on a more readable
11 slide. Here you have the various compartments
12 in the first column, the fraction of the pre-
13 CLL cells in that tissue in the second column.

14 There's a column labeled "additional
15 fractions" because that melds this stuff with
16 the ICRP biological models.

17 In this particular example we've
18 calculated what I would call the effective
19 lymphocytic dose to ingestion of one becquerel
20 of strontium-90.

21 In the second column from the
22 right you have the dose per unit intake of

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1 strontium-90 in sieverts per becquerel so one
2 merely multiplies that dose coefficient times
3 the fraction of the cells that are radiated in
4 that compartment and you come up with the
5 strontium-90 ingested per unit intake on the
6 weighted dose component issue on the far
7 right.

8 If you sum that entire column up,
9 you end up with the effective dose to the
10 lymphocytes from an ingestion. In this
11 particular case, strontium-90. The value in
12 the lower right-hand column in yellow is the
13 effective dose input that would go into the
14 NIOSH IREP spreadsheet.

15 It would also have though the
16 propagated uncertainty of the distributions of
17 all of those various compartments. We have
18 this running in a model basis as a
19 spreadsheet. We are working towards tying
20 this in with our IMBA program right now.

21 Interestingly, the overall spread
22 of the distribution based on the uncertainty

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1 of the location of all the lymphocytes is much
2 smaller than the overall uncertainty we
3 normally assign to an internal dose because
4 all internal doses that we assign unless they
5 are upper-bound estimates are recorded with a
6 geometric standard deviation of three.

7 I can't remember exactly now what
8 the overall uncertainty it adds to that GSD of
9 3 is not insignificant but it's not a major
10 portion of that GSD of 3. We're looking at
11 ways to sort of streamline this a little bit
12 and maybe just include the GSD of 3 for the
13 internal dose and add a component, an
14 additional uncertainty that is likely going to
15 be a standard addition to that uncertainty in
16 each case. That's where we are. It sounds
17 complex but it's easily put into a spreadsheet
18 type format.

19 In summary our proposed rule would
20 rescind the designation of CLL as being non-
21 radiogenic and added as one of the covered
22 cancers. I want to make sure, though, as

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1 pointed out, we're not talking about making
2 this a presumptive cancer. We're talking
3 about making this a covered cancer so that
4 dose reconstructions can move forward.

5 A new risk model would be added to
6 allow for calculation of Probability of
7 Causation for CLL and that would be the
8 modified version of the existing lymphoma and
9 multiple myeloma model. The dose
10 reconstruction methodology would use a
11 probabilistic approach to calculate the
12 weighted average dose for the population of
13 the mature lymphocytes in the body.

14 All the information I just talked
15 about, including the Notice of Proposed
16 Rulemaking, the various reviews, subject
17 matter expert reviews, our responses to their
18 comments, the proposed dosimetry model are all
19 included at this address in the regulatory
20 docket 209.

21 It's also available as a link from
22 our DCAS website. If you go under Probability

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1 of Causation, you'll find the link there. As
2 I said, it includes all the various
3 information that we could think to put in
4 there including all the relevant references.
5 The public comment period closes June 20th.

6 That's it. Thank you.

7 CHAIRMAN MELIUS: Thank you, Jim.

8 I just want to correct one thing for the
9 record. Although it's correct in your slide,
10 I don't think it was clear when you presented
11 it, and that is even though you're using the
12 male risk model, you're applying it to both
13 males and females. You just weren't complete,
14 that's all. I didn't want anybody listening
15 in not seeing the slides not to understand
16 that.

17 I also would like some
18 clarification because I'm confused. When I
19 first went to the docket, and I still am
20 confused based on what's in the rulemaking,
21 but you have the SENES document which was the
22 proposed risk model. Is there a document that

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1 updates that?

2 DR. NETON: That proposed risk
3 model was modified and finalized to
4 incorporate the comments that were received
5 from the subject matter experts.

6 CHAIRMAN MELIUS: And is there a
7 document that states that that is on the
8 docket?

9 DR. NETON: Yes. There is a
10 document called Responses to the Subject
11 Matter Expert Comments. It's a 20-page
12 document where we listed all the comments we
13 received and our interpretation of those
14 comments and whether we modified the final
15 version or not.

16 CHAIRMAN MELIUS: But there is no
17 final version?

18 DR. NETON: Well, it's a final
19 version of the proposed model. This is
20 proposed rulemaking. It's a proposed model.
21 It could be modified based on comments we
22 received. It's our final model but it's a

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1 proposed model until we finalize it based on
2 comments.

3 CHAIRMAN MELIUS: It's confusing
4 the way it's stated in the rule in the
5 proposed regulations as opposed to what you're
6 telling us now. That's why I'm just trying to
7 understand what the Board is supposed to be
8 responding to.

9 DR. NETON: The document to review
10 is a proposed risk model that was modified
11 based on public comments and those public
12 comments are there as well.

13 CHAIRMAN MELIUS: So it's really
14 the two.

15 DR. NETON: There's a third piece,
16 though, which is the proposed dosimetric
17 approach that is also out there on the
18 regulatory docket which talks about this
19 weighted probabilistic dose reconstruction
20 approach. That took quite a bit of effort.
21 This was really cutting edge science that we
22 were dealing with.

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1 CHAIRMAN MELIUS: I guess I'm
2 having a little trouble finding that on the
3 docket. That's all.

4 Then let me just clarify so the
5 Board knows, and I know, what we're suppose to
6 do, or expected to do. You are expecting us
7 to comment on the regulation or on the
8 proposed dose model?

9 DR. NETON: Both.

10 CHAIRMAN MELIUS: Both.

11 DR. NETON: They are listed both
12 in the NPRM. The NPRM discusses both pieces.
13 It talks about the risk model. I think the
14 last few paragraphs talk about the proposed
15 dosimetric approach and it references the
16 document that is on the regulatory docket.

17 CHAIRMAN MELIUS: Because, again,
18 you state on the Notice of Proposed Rulemaking
19 that EEOICPA has required that HHS obtain a
20 technical review by the Advisory Board prior
21 to establishing the Probability of Causation
22 guidelines. That's why I wanted to make sure

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1 it's clear and clarify.

2 With that as background, does
3 anybody on the Board have comments or
4 questions?

5 MEMBER ZIEMER: Dr. Melius.

6 CHAIRMAN MELIUS: Yes, Paul. Go
7 ahead.

8 MEMBER ZIEMER: Paul Ziemer here.

9 I have two questions. One is procedural and
10 one is technical. On the procedural is there
11 an expectation that the Science Issues Work
12 Group will look specifically at this proposal?

13 CHAIRMAN MELIUS: Paul, I would
14 say that is one possibility. I think that
15 they are trying to get comments back by June
16 21st is the close so that's why I was asking
17 what we were expected to review and comment
18 on. There's different possibilities.

19 I'm not saying this is what I
20 would prefer but if one could approve the
21 general concept and certainly the addition of
22 the change in the regulation and say that we

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1 need more time to really look at the proposed
2 guidelines and how they are going to do the
3 guidance of dose reconstruction.

4 Alternatively we could say that we
5 approve both but I think we're really
6 approving based on what's in the docket and
7 what's the presentation that we got today. I
8 don't think it was as straightforward to
9 figure out exactly what we were expected to do
10 when we received this but that certainly is
11 one possibility.

12 We could refer that part of it if
13 people aren't comfortable approving both or
14 there may be some other options between now
15 and June 21st but we don't have any meetings
16 scheduled in that time period. It would be
17 difficult to even schedule one given some of
18 the notice requirements for the Board.

19 MEMBER ZIEMER: My second question
20 is technical. Admittedly, I haven't read the
21 details on the reviewer's reports at this
22 point. Maybe Dr. Neton can help me understand

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1 the final column on the weighted dose
2 components and the rationale for adding those
3 up.

4 I tried to think of an analogy.
5 Let's say, for example, there was an exposure.

6 Just remove it from this and just say some
7 kind of exposure where different organs in the
8 body received different doses. If you wanted
9 to know the total body dose, you wouldn't
10 typically add up those doses.

11 In fact, if you had a total body
12 dose of 5 rem, each organ in the body would
13 have received that dose so you don't add them
14 up. Or if you took a skin dose to the arm and
15 a skin dose to the leg and so on, you don't
16 typically add those up and get a total skin
17 dose.

18 I'm having a little difficulty in
19 following the rationale for adding up the
20 components here. I know the weighted part
21 should be accounting for that but I'm missing
22 something here.

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1 DR. NETON: Well, this is very
2 akin to how one does effective dose in the
3 ICRP nomenclature where you have weighting
4 values for each of the tissues that add up to
5 100 percent and then you --

6 MEMBER ZIEMER: Okay. So, Jim,
7 it's sort of like if you take the weighted
8 doses from radon and add them up, then you get
9 the 5 rem total even though the lung dose may
10 be much higher. That's what you're saying.

11 DR. NETON: Correct.

12 MEMBER ZIEMER: I got you. So, in
13 a sense, it's been accounted for --

14 DR. NETON: Yes.

15 MEMBER ZIEMER: -- that particular
16 organs got higher than this weight number.

17 DR. NETON: Well, it's what
18 fraction of the total --

19 MEMBER ZIEMER: It's a fraction of
20 the risk really that we're looking at here.

21 DR. NETON: Exactly.

22 MEMBER ZIEMER: I got you. Okay.

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1 Thank you. That makes sense.

2 CHAIRMAN MELIUS: I think our
3 legal counsel would like to comment.

4 MS. LIN: Obviously not to the
5 technical question. I just want to note that
6 the public comment closes on June 20th so you
7 need to submit your comment by then, not the
8 21st. However, if the Board decides they need
9 more time to consider the NPRM, then you need
10 to tell the agency.

11 Additionally, in the NPRM there is
12 a set of questions, right? Three or four
13 questions?

14 DR. NETON: Yes, at the very
15 beginning.

16 MS. LIN: Those questions would
17 help guide your review.

18 CHAIRMAN MELIUS: Thank you for
19 that clarification.

20 Other Board Members have
21 questions?

22 I'm sorry, Jim.

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1 MEMBER ROESSLER: Jim, I have a
2 question on the latency adjustment. I assume
3 that is sort of a multiplier that you apply
4 after you do all the other calculations?

5 DR. NETON: Exactly. You take the
6 excess relative risk based on attained age and
7 age of exposure and you come up with that
8 value. Then you multiply the excess relative
9 risk value times the value in the Y-axis
10 depending on where you are.

11 MEMBER ROESSLER: Then the
12 uncertainty, you said, is you use a triangular
13 distribution?

14 DR. NETON: Uncertainty is a
15 triangular distribution about that. The
16 dotted line, plus or minus five years, at 10
17 years would be a lower bound of a triangular
18 distribution. Five years and an upper bound
19 of 15 years.

20 MEMBER ROESSLER: So then once you
21 apply that, it could be zero.

22 DR. NETON: No.

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1 MEMBER ROESSLER: The multiplier
2 will never be zero?

3 DR. NETON: It approaches zero
4 very asymptotically there as you see but it's
5 never zero.

6 MEMBER ROESSLER: Never zero.
7 Okay. Thank you.

8 DR. NETON: Pretty close to zero
9 though, I think. If you're one month after
10 exposure, you're not going to get much
11 conferred risk.

12 CHAIRMAN MELIUS: Other questions?
13 Yes, Bill.

14 MEMBER FIELD: Jim, again I have
15 to congratulate you for taking the lead on
16 this. I think this is really cutting-edge
17 science. I think you put a lot of work into
18 it. I think it's very sound. I guess my
19 question has to do more with not the inclusion
20 but the diagnoses. Is there a set criteria
21 now for diagnoses? It's not like normal
22 cancer where you use pathology. Most of the

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1 time you have to use flow cytometry to make
2 the diagnoses.

3 DR. NETON: That's a good question
4 and I don't know the answer to that other than
5 we rely on the Department of Labor to provide
6 us the cases and I'm trying to hide behind
7 them. That's just the way the program is set
8 up.

9 If they present us a case that has
10 an ICD-9 code that says it's chronic
11 lymphocytic leukemia, then that's what we're
12 going to do. That doesn't help, I'm sure, but
13 I understand the issues. I'm well aware of
14 the issues in diagnosing CLL.

15 MEMBER FIELD: Unlike Japan I
16 think the rates are much higher in Europe
17 versus what we have in the United States. I
18 think part of that different is we have a very
19 hard time making that and tracking that in
20 cancer registries and just patient to patient.
21 I think it's very under-reported.

22 DR. NETON: I agree.

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1 MEMBER FIELD: Do you have a rate?
2 Is it like around 15,000 estimated per year?
3 Something like that?

4 DR. NETON: I know it's in the
5 NPRM somewhere.

6 MEMBER FIELD: That's fine.

7 DR. NETON: There's a regulatory
8 cost. I can't remember off the top of my head
9 but it's pretty low. We don't expect to have
10 too many cases of CLL come to this program.

11 We expect a bolus in the beginning
12 because, obviously, Department of Labor had
13 some CLL cases in the very beginning and we
14 worked through those but I don't think the
15 overall number we are expecting to come
16 through is going to be that large.

17 MS. LIN: I have reviewed the
18 answer and it says \$15,273. It says that the
19 agency expects to review 363 reopened cases
20 plus 132 new CLL cases in the first five
21 years.

22 DR. NETON: So it's a pretty small

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1 number compared to the overall statistics.

2 CHAIRMAN MELIUS: Okay. I'm going
3 back to one of my original questions. I'm
4 looking through the docket and I do not see
5 any final guidelines. I don't see anything in
6 Responses to Comments and so forth that go
7 back before the SENES report.

8 The last description I see of any
9 sort of dose reconstruction guidelines and
10 model and so forth that really is the SENES
11 report, plus what's in the Announcement of
12 Proposed Rulemaking.

13 DR. NETON: There is a Response to
14 Comments. I just printed it out.

15 CHAIRMAN MELIUS: Well --

16 DR. NETON: Isn't it called
17 Responses to Comments of the CLL Risk Model.
18 It should say Responses to Comments or
19 something of that nature.

20 CHAIRMAN MELIUS: There is
21 Response to Review Comments on the draft
22 report --

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1 DR. NETON: That's right.

2 CHAIRMAN MELIUS: -- dated
3 December 1, 2009.

4 DR. NETON: Yes. That's it. Then
5 the final --

6 CHAIRMAN MELIUS: That's before
7 the SENES. I guess my question is is the
8 SENES report the January 2010 model?

9 DR. NETON: That's the final
10 model.

11 CHAIRMAN MELIUS: Okay. Okay.
12 That's what I was trying --

13 DR. NETON: Sorry for the
14 confusion but I didn't want to call it the
15 final model or the model. I just left it as a
16 proposed model because it could change based
17 on additional public comment during the open
18 comment period.

19 CHAIRMAN MELIUS: Okay.

20 DR. NETON: What we did was we
21 took the 2009 comments, and they're all
22 listed, and incorporated them or not, based on

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1 our judgment, into that 2010 SENES document.

2 CHAIRMAN MELIUS: Okay.

3 DR. NETON: Sorry for the
4 confusion.

5 CHAIRMAN MELIUS: No, no.

6 What's the Board's wishes in terms
7 of going forward on this? I suspect we're not
8 ready to take action right now, and we don't
9 have to take action at this moment. We can
10 think about it and come back during one of our
11 work periods to talk about what to do and so
12 forth.

13 Yes, Wanda.

14 MEMBER MUNN: Unless we come in
15 individually I see no logical way between now
16 and June 20th that we as a Board could make
17 any comment unless we do as has been implied
18 that we might do have our Work Group take a
19 look at this, bring a recommendation before
20 the Board prior to its next meeting, and make
21 a recommendation at the next meeting.

22 This, of course, would require our

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1 notification to the agency that we have
2 comment but can't make it by June 20 but it is
3 one path we might follow if we really want to
4 spend the time and effort to look at this as
5 closely as it probably should be looked at
6 given the amount of effort that's gone into it
7 so far.

8 CHAIRMAN MELIUS: This may
9 surprise you, Wanda, but I tend to agree with
10 that approach. I think that may be feasible.

11 I will say it's not -- if I understand the
12 rulemaking process, while they are in the
13 process of developing the rule and so forth,
14 they really aren't in a position to let us
15 comment so it's not that they sort of kept
16 this from us deliberately. Some of it is just
17 the way the regulatory rules are and so forth.

18 MEMBER MUNN: We knew they were
19 working on it and asked them to do so.

20 CHAIRMAN MELIUS: Yes. No,
21 obviously. We talked about this before. It's
22 also gone on for a long period of time.

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1 Any other comments? If not, why
2 don't we think about this over lunch. We'll
3 come back during our work periods and decide
4 what we should do and so forth on that.

5 Thank you very much, Jim. That
6 was a good presentation and I appreciate it.

7 With that, why don't we take our
8 break. Actually, we are scheduled to start at
9 1:30. We'll be talking about the Fernald
10 petition. We will have petitioners, we
11 believe, listening in so we will start
12 directly at 1:30.

13 (Whereupon, the above-entitled
14 matter went off the record at 11:52 a.m. and
15 resumed at 1:30 p.m.)

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A-F-T-E-R-N-O-O-N S-E-S-S-I-O-N

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1:32 p.m.

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CHAIRMAN MELIUS: We will reconvene now. It's 1:30. The Federal Executive Officer here is giving the Board Chair a hard time.

Ted, you want to check the line and do the housekeeping?

MR. KATZ: Yes. In case we have new people on the line, let me just ask people in general on the line to mute your phones. Use *6 if you don't have a mute button and that will help everyone else on the line here in the proceedings.

Can I check with my Board Members on the line and see who we have.

MEMBER GRIFFON: Mark Griffon.

MR. KATZ: Mark, welcome.

How about Dr. Ziemer or Mr. Gibson?

Okay. I think we'll just carry

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1 on.

2 CHAIRMAN MELIUS: First thing on
3 our agenda for this afternoon is the Fernald
4 site. This site, and we'll be talking
5 tomorrow about Savannah River, are updates on
6 what's been happening at the site. Both of
7 these are fairly lengthy processes that the
8 Work Groups have gone through. I believe
9 Fernald longer than Savannah River.

10 I believe that we could very well
11 be taking Board action on both of these sites
12 at the August meeting. We are not planning on
13 doing it at this meeting but the idea of these
14 presentations is to bring the entire Board up
15 to date on what the Work Group has been doing,
16 SC&A and NIOSH and the back and forth and
17 review that is under way.

18 These are both large sites. They
19 are both complicated. I thought that would be
20 a way that we could at least get information
21 so that if we are going to be ready to take
22 action in August, at least we'll have a

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1 background and understand what's going on.
2 Also it will give an opportunity for Board
3 Members who aren't on the Work Group to raise
4 questions or suggestions they might have for
5 part of these evaluations.

6 Obviously I don't expect people
7 have read all the documents and gone through
8 everything on these but, again, it will give
9 us hopefully enough initial familiarity with
10 the site and what's going on with the
11 evaluation at that site, the SEC evaluation,
12 that will be helpful for us in August.

13 I think as you may see from the
14 rest of the agenda here, we have a relatively
15 lighter agenda than normal, at least in terms
16 of voting and dealing with SECs than we did in
17 the last few meetings but August will probably
18 make up for it when we're in Hanford.
19 Hopefully this will help to get us ready.
20 With that, I'll turn it over to Brad to do an
21 introduction and then --

22 MEMBER CLAWSON: Thank you, Dr.

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1 Melius. I'm Brad Clawson. I'm the Work Group
2 chair for Fernald. What I wanted to make up
3 front is I'm just going to give an overview of
4 what we have done. John Stiver from SC&A is
5 going to go into detail of each one of these
6 items and we'll go from there.

7 First of all, SC&A submitted a
8 Site Profile review 11/10/06. SC&A submitted
9 an SEC review on 07/02/07. Six particular SEC
10 issues were identified. There were 10 Work
11 Group meetings held from August 2007 to April
12 2011. Numerous White Papers exchanged from
13 Work Group discussions. SC&A and NIOSH have
14 prepared over 20 White Papers supporting
15 documents during this time.

16 April 19, 2011 Work Group met.
17 Three SEC issues remain. April 15, 2011 NIOSH
18 submitted 0025 feed material, process center,
19 internal dose topics in response to the Work
20 Group's action item.

21 April 17, 2011 NIOSH delivered a
22 response to SC&A second RU, recycled uranium,

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1 White Paper.

2 Outstanding issues. Coworker
3 model for uranium internal exposure. November
4 10th NIOSH performed an analysis of
5 construction workers. What we got into was
6 were we going to be able to capture the
7 construction workers with the nonconstruction
8 workers on their urinalysis bioassay.

9 One thing about Fernald is it had
10 a lot of uranium urinalysis data but not much
11 OTIB-78 and delivered a report to the Board no
12 deliverable as of April 19 of this year.

13 Issue No. 3, recycled uranium, RU.
14 Two SC&A papers, March 2009, February 2011.
15 Topics ongoing discussions since April of
16 2009, five meetings. No progress until April
17 19, 2011 at the Work Group. There's a little
18 bit of movement on it but we kind of begged to
19 differ on a few subjects.

20 Significant SEC issues remain.
21 SC&A prepared responses. We have none at this
22 time. We've kind of come to an impasse and

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1 this is where we're coming to the Board.
2 Something that came out of the April 19th
3 meeting was NIOSH indicated that they had
4 located 450 boxes of site specific records.
5 We don't know what the contents are on those.

6 Outstanding issues going on.
7 Issue 6B, reconstruction of internal exposure
8 for inhalation of thorium-232 from in vivo
9 chest count data from 1968 to 1988. NIOSH has
10 a White Paper issued in January of 2008. The
11 topic of the Work Group discussion since
12 January 2010, four meetings.

13 SC&A issued a review of NIOSH's
14 White Paper July 2010. NIOSH responded to
15 SC&A's review at the November 10, 2010 Work
16 Group meeting. NIOSH submitted two memos
17 January 19, 2011 in response to the SC&A
18 review. Issues discussed in detail at the
19 April 2011 meeting.

20 Issues remaining regarding data
21 accuracy and completeness. This has been
22 brought up by the petitioner. The time that

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1 it would take and the money it would take we
2 never really -- we didn't think that we could
3 go on on that one. We wouldn't even be able
4 to understand if we could get something that
5 was out of it.

6 To summarize this, we've been at
7 this five years, 10 Work Group discussions.
8 The timeliness issue comes up quite a bit,
9 especially by the petitioners. Two SEC issues
10 resolved with some caveats.

11 The HIS-20 validation was
12 completed. The thorium-232 daily weighted
13 average there are a few caveats with this but
14 two SECs that we've deemed at our Site Profile
15 is raffinates thorium with Ra-226 and the K-65
16 silos. They are in the process. We feel that
17 these are going to become Site Profile issues
18 but we haven't come to a conclusion on that.

19 The uranium coworker model, the
20 construction versus subgroup issue one, still
21 out there. Low progress on two significant
22 issues prior to the April 19th Work Group

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1 meeting. We still have significant ones out
2 there. We have new data that has come in that
3 we haven't been able to review or that we even
4 know what is in there.

5 The Work Groups work very hard on
6 this, same as NIOSH and SC&A. At the last
7 meeting I asked both sides if you go on to the
8 database, the O: drive, SC&A has combined all
9 of our White Papers and everything that we've
10 done on it and so has NIOSH. They've put them
11 in there so that you will be able to review
12 this.

13 We're bringing this to the Board
14 because we're kind of at a point where we've
15 kind of at an impasse and it's going to come
16 down to the Board to be able to get involved
17 and be able to review many of these things and
18 be able to help us from there.

19 That's about it. I'll turn the
20 time over to John Stiver. Is there any
21 questions?

22 CHAIRMAN MELIUS: First, any

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1 questions for Brad? Okay.

2 MEMBER CLAWSON: I'll turn it over
3 to John.

4 CHAIRMAN MELIUS: I actually have
5 one, Brad.

6 MEMBER CLAWSON: Okay.

7 CHAIRMAN MELIUS: Maybe John or
8 somebody could -- what is a blunder?

9 MR. STIVER: This is a term that
10 came out of a paper published in Health
11 Physics by Adam Davis and Dan Strom. It's
12 basically an uncertainty analysis of this
13 whole weighted-air sampling data and its use
14 in dose reconstruction in this program.

15 The problem there was that these
16 data have been collected since the 1940s and
17 it's pretty much a continuous process through
18 time. It really wasn't intended to be used in
19 the dose reconstruction setting. It was
20 mainly for industrial hygiene purposes.

21 As a result of that we never
22 really did any kind of an uncertainty analysis

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1 on these data sets. Davis and Strom did this.

2 One of the things they discovered they
3 weren't expecting were a lot of typographical
4 errors, math errors and things of that nature.

5

6 They refer to them as blunders.

7 It doesn't imply any degree of stupidity or
8 anything like that. They are just mistakes.

9 It's kind of an odd term. I expected to get
10 that question actually.

11 MEMBER CLAWSON: Dr. Melius, I'm
12 glad you brought that up because I thought
13 what are we saying here.

14 CHAIRMAN MELIUS: Is this
15 something you health physicists use commonly?

16 I can't imagine it being a professional term
17 but thanks for the explanation, John.

18 MR. STIVER: Okay.

19 MR. MORRIS: This is Robert Morris
20 with ORAU team. I worked on some of that and
21 I can answer your question, Dr. Melius.

22 CHAIRMAN MELIUS: Okay. Go ahead.

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1 MR. MORRIS: Blunders is a
2 technical term in one of the ISO standards on
3 uncertainty.

4 CHAIRMAN MELIUS: Oh, okay.

5 MR. MORRIS: And it conveyed the
6 idea of mistakes, typically a rounding error,
7 a typographical error, a transcription error,
8 or a mathematical mistake which you would see
9 quite a few of in the 50s with no calculators
10 handy.

11 CHAIRMAN MELIUS: Okay. I can see
12 where blunder would sort of fit that.

13 MEMBER CLAWSON: We were not
14 trying in anyway --

15 CHAIRMAN MELIUS: Thank you very
16 much.

17 MEMBER CLAWSON: I didn't
18 understand it either. I know what a blunder
19 is. I get that quite a bit.

20 MR. KATZ: While John is coming
21 up, I'm remiss to note for the record that Dr.
22 Lockey has recused himself. Thank you.

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1 MR. STIVER: Good afternoon,
2 everybody. My name is John Stiver. I'm the
3 Health Physicist with SC&A. The last couple
4 of years I've been involved pretty heavily in
5 the Fernald SEC issues resolution process.
6 I'm actually fairly close to it.

7 As Brad mentioned earlier, this is
8 probably one of the SECs that has gone on the
9 longest, about five years in time. I think
10 the main reason for that is there are some
11 very complex technical issues that have
12 involved a lot of discussion. Kind of an
13 iterative process of White Paper exchanges,
14 knowledge being developed, new models being
15 proposed in response and so forth.

16 So what you're going to see today
17 is really a snapshot in time. This is the
18 state of affairs as of the 10th Work Group
19 meeting, the April 19th meeting. What you're
20 going to see in summary may not make a lot of
21 sense in terms of what you might typically
22 expect for an SEC. Mainly that you would

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1 expect in the early years when there is a poor
2 industrial hygiene process is data collection
3 isn't very good.

4 You would think that would be
5 always the -- in most cases that would be the
6 time frame we need to be concerned with.
7 Fernald has some kind of unique aspects to it
8 that are going to result in some kind of
9 unusual, not really recommendations but
10 periods during which we feel that there may be
11 issues involved in being able to reconstruct
12 doses.

13 We can go ahead and get started
14 here. You may have seen this slide not too
15 long ago, or something very similar to it.
16 This basically is just the overview. The six
17 issues that were identified in the SEC
18 Evaluation Report were the coworker model for
19 uranium internal exposures, validation of the
20 electronic database from which the hard copy
21 records were transcribed.

22 The issue of recycled uranium has

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1 probably been the most complicated of all.
2 There is the use of radon breath data for
3 reconstructing doses from radium and thorium-
4 230 mainly for workers in the refinery who
5 handled raffinates which is a term for the
6 waste product after uranium extraction. It
7 contains high quantities typically of radium
8 and thorium and subsequent U-238 decay
9 progeny.

10 Associated with that is the review
11 of radon emissions from the K-65 silos which
12 were the principal source of radon exposure to
13 workers at Fernald. Finally, issue 6 is the
14 reconstruction internal inhalation exposures
15 from thorium-232. This is really a two-part
16 issue based on two different time frames.

17 The first being the use of these
18 daily weighted exposures, weighted air
19 concentrations from about 1954 up through '67.

20 Then in '68 Fernald brought in this mobile in
21 vivo rad monitoring laboratory from Y-12. At
22 that time then the use of the air sampling was

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1 pretty sharply curtailed in favor of doing
2 chest counts. From then on these chest counts
3 were then used to assess intakes of thorium-
4 232.

5 As we said earlier, there have
6 been 10 Work Group meetings, SC&A's work
7 products and associated summary information.
8 There's a file in there called "Read Me" that
9 kind of gives you a synopsis of each one of
10 these documents and what issue it fits into
11 and kind of how it was developed.

12 Sort of a CliffsNotes version I
13 guess. Those can be found at the blue
14 highlighted path file name there. As Brad
15 said, after the April 19th meeting, just last
16 month, there were still two main issues
17 outstanding being the recycled uranium and
18 thorium chest count issues.

19 Let's go ahead and take a look at
20 these issues. I've been very close to this
21 and so if I start going too fast and makes
22 leaps of faith here, please sure to tell me to

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1 slow down the train and I'll do that. Or if
2 there is something, some particular issue that
3 comes up you want to discuss, you can stop me
4 and we'll go through that.

5 This issue No. 1 is really about
6 the completeness and adequacy of the bioassay
7 data because this is really the cornerstone.
8 Fernald has a lot of problems. What they do
9 have is a lot of bioassay data, a lot of
10 uranium bioassay data all the way back into
11 the 50s.

12 Really the first step in
13 developing a coworker model was to assess the
14 quality and completeness of this data set. As
15 of the April meeting all these issues have
16 been resolved except for the issue of the
17 coworker model for construction workers.

18 I'm going to diverge a little bit
19 here. At the Savannah River site we did some
20 work on that site and we found that at least
21 for certain years and certain buildings the
22 construction worker exposures were

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1 statistically significantly higher than those
2 for all workers.

3 So what we want to do is kind of
4 get a better handle on whether that issue is
5 going to be a problem for Fernald as well.
6 NIOSH is in the process of developing this
7 model as of the April 19th meeting. That
8 report had not yet been completed.

9 Issue No. 2 is the validation of
10 the HIS-20 database. This is really a two-
11 part issue, the first being the at some point
12 in time NIOSH had done a validation study but
13 stopped short of a complete analysis because
14 they felt they had adequately analyzed the
15 data to the level of significance that was
16 required.

17 We at SC&A had some issues related
18 to that. As a result of the Work Group
19 meetings NIOSH went ahead and completed that
20 study. It was delivered in December of last
21 year. It resolved all of SC&A's concerns. At
22 the February 8th meeting it was recommended

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1 that Subpart A be closed out. Consequently
2 there are no action items at this time.

3 Issue 2B. There were concerns
4 raised by the petitioner about the integrity
5 of the hard copy bioassay data; namely, that
6 it may have been tampered with to create the
7 appearance of lower exposures than actually
8 took place.

9 SC&A prepared a report at the
10 Board's instruction that looked at some
11 strategies that could be used to analyze data
12 sets for corrupt monitoring practices. We
13 came up with three possible approaches to
14 this. One was comparing the urinalysis to in
15 vivo monitoring. Of course, you would be
16 limited there by a subset of workers who
17 really had complete sets in both time frames.

18 Another was to look at the
19 consistency and reliability of the urinalysis
20 results. Do the results really comport with
21 the known biokinetics. If not, is there some
22 kind of pattern where you have high followed

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1 by several lows that would make sense in terms
2 of excretion rates.

3 The third approach was to compare
4 the daily weighted exposure data to urinalysis
5 records. There's a couple problems with that.

6 You would have to have detailed knowledge of
7 the workers' locations, job types throughout
8 time, whether respiratory protections were
9 worn and that type of thing.

10 The Work Group had agreed that
11 such investigations, as Brad also mentioned,
12 would consume considerable resources and would
13 likely be inconclusive. As a result there are
14 no action items at this time.

15 Now, the next few slides will be
16 devoted to recycled uranium. This is probably
17 the most complex of all the issues and still
18 has some outstanding problems.

19 Our main concern is, as you know,
20 we've established that Fernald had a
21 comprehensive set of uranium bioassay
22 measurements but not much for some of these

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1 other constituents that would be found in
2 recycled uranium, that being plutonium-239,
3 neptunium-237, fission products such as
4 technetium-99, strontium-90 and so forth.

5 The concern is really that the
6 proposed defaults of a sort of one-size-fits-
7 all model that NIOSH will use, with what would
8 considered bounding defaults and
9 proportionality to the uranium content, was
10 that there may be certain groups of workers in
11 certain processes and certain time frames for
12 which those values would not be bounding.

13 Here is an example of the
14 dosimetric significance for the proposed
15 original NIOSH default of 100 parts per
16 billion on a uranium mass basis. The doses
17 for plutonium could be up to five times higher
18 than the uranium dose. Of course, that would
19 scale with higher defaults, higher
20 concentrations.

21 The period of interest. When we
22 look at the timeline of the uranium receipts,

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1 they were first received in 1953. Between '53
2 and 1961 I think there is about 45 metric
3 tons. Then receipts really started to ramp up
4 and peaked in the mid-1960s and then again in
5 the mid-1980s for a total of about 18,000
6 metric tons. There's a table in one of the
7 DOE field office reports that illustrates that
8 quite nicely.

9 1986 after a long tenure by
10 National Lead of Ohio, the M&O, Westinghouse
11 Materials Company came along and replaced
12 them. This was a result of some DOE
13 investigations as well as an attached report
14 on recycled uranium. A lot of things were
15 kind of coming together in that time frame.

16 So Westinghouse came in and they
17 really changed up the entire industrial health
18 process. They introduced a comprehensive
19 improvement, monitoring, air sampling, regular
20 bioassay for different subgroups of workers.
21 From 1986 and beyond we are fairly confident
22 that doses from recycled uranium can be

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1 reconstructed.

2 Prior to 1986 one of the findings
3 in our report was that the Rad-Safe program
4 was probably not adequate to control exposures
5 from these contaminants. Thus, the period of
6 interest is really from 1953 to 1985.

7 Here is a little history of the
8 different Work Group discussions and what
9 happens to kind of give you a snapshot, a
10 thumbnail sketch, I guess, if you will of what
11 the issues were at various time frames.

12 All the way back in October of
13 2008 we were tasked to review the NIOSH White
14 Paper on RU with basically the same goal in
15 mind throughout the entire period which was
16 are these defaults going to be appropriate and
17 bounding for all the workers.

18 As of January of 2010 we produced
19 our White Paper. We discussed it. NIOSH had
20 not had time to respond to it and agreed to
21 prepare their response for those 11 findings
22 which they indeed did at the November 9th

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1 meeting of last year. The responses were
2 discussed in detail and some action items
3 emerged from that.

4 This particular meeting really
5 concentrated on the source of data that were
6 used to generate these defaults, mainly these
7 DOE reports that came out around the year
8 2000, these mass balance reports that really
9 traced quantities of recycled uranium
10 throughout the DOE complex.

11 In addition to that, there were
12 some site-specific data that we felt indicated
13 that these defaults may not be applicable to
14 actual worker exposures at the site. Our
15 action items produced the second RU report
16 that really focused in on the availability of
17 site-specific data.

18 Also really look into the veracity
19 of the field office report subgroups.
20 Basically what they did was they came up with
21 19 different process subgroups for this data.
22 There are about 4,000 plutonium measurements

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1 mostly taken in the 1980s. They used process
2 knowledge experts.

3 Also the available data to parse
4 this data set down in different processes
5 which would then correlate to various
6 activities that might have taken place in the
7 facilities.

8 At the February meeting we
9 presented our second RU White Paper. These
10 were some key findings here many of which were
11 unchanged from our first report, one of those
12 being there was a lack of data and limited
13 health physics program integrity during the
14 NLO tenure.

15 There were limitations associated
16 with the DOE reports, these mass balance
17 reports. Typically variability uncertainty
18 and data completeness issues. The big issue
19 that emerged from our review of the site-
20 specific data was this dolomite problem. This
21 was magnesium fluoride used in the reduction
22 of green salt to uranium metal. This takes

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1 place in Plant 5.

2 This is a process that
3 concentrates these contaminants. Every time
4 one of these reduction pots is utilized, about
5 50 percent -- 50 to 60 percent of the
6 plutonium transuranics and other fission
7 products move into the slag.

8 Then the slag is then re-milled
9 through Plant 1, recycled, and used again so
10 you have this continuous loop. Actually a
11 small part of it is either sent off to be re-
12 extracted if the uranium content is high
13 enough. Another portion is disposed of.
14 About half of it each time around gets reused
15 so you have this concentration loop that's
16 going on. These are the most highly exposed
17 process subgroups in the entire facility.

18 We found high plutonium and
19 neptunium in concentrations in dust collector
20 samples which also correlate to Plant 5 and
21 Plant 1. We found high concentrations in
22 boundary air samples. I think there were

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1 seven of them, seven different locations.
2 There were well over 200 parts per billion in
3 1983.

4 We also looked at subsequent
5 years. You see the spike coming in about 1982
6 which correlates to this time frame of
7 processing of the most highly contaminated
8 materials. It peaks out about '84 and then
9 drops back down to less than 100.

10 We also found high concentrations
11 and onsite air samples collected in 1989. We
12 have concerns to some extent about back
13 extrapolating this data from the 1980s to
14 earlier time periods.

15 This idea of one size fits all
16 model where it's kind of an all or nothing
17 phenomenon you don't have the granularity to
18 look at the subgroups and say, "Okay, for this
19 group of workers and this year and this plant
20 we can't reconstruct the doses but these other
21 guys over here we think we're okay with."

22 Here you've got one size fits all.

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1 It's either you've got it or you don't. It's
2 very critical that you have bounding yet
3 plausible upper bounds.

4 NIOSH was tasked then to respond
5 to the second report and provide a response
6 for the next meeting. They did deliver a
7 response. It turned out it was right before
8 the meeting so these next slides are really
9 based on about one-day's review of the
10 response. It's just the way it turned out.
11 We haven't been tasked to continue our work at
12 this point so what you're seeing now are
13 preliminary observations based on what NIOSH
14 provided.

15 We found some very good things
16 about this new report, couple of things that
17 we'd had troubles with before. Now their
18 acknowledgment of these chemical processes and
19 magnesium fluoride could pose a potential
20 exposure above their previous default levels.

21 They acknowledge the limitations
22 and the uncertainties in the DOE field office

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1 reports. Previously they had used the
2 arithmetic mean values for these subgroup
3 processes to define their defaults. Those
4 ranges of data were very extreme. Very large
5 spread in the data. We felt that log-normal
6 fit was probably more appropriate based on our
7 analysis in our first RU report.

8 They proposed using the upper 95th
9 percentage for log-normal distributions for
10 all but the highest process subgroup for the
11 period of 1973 to 1989. This period is when
12 these tower ash and incinerator ash residues
13 from the gaseous diffusion plants were sent to
14 Fernald for extraction of uranium.

15 This material was significantly
16 more elevated in these contaminants than
17 previous shipments had been. This subgroup
18 represents probably the highest concentration
19 of any amount of material

20 In the 1980s the most contaminated
21 there were 16 hoppers that this tower ash that
22 came in from Paducah. The term they use for

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1 this is plutonium out of specs, or POOS for
2 short. This POOS material in 1980 really had
3 contributed about 50 percent of the entire
4 plutonium inventory from that point on at
5 Fernald.

6 The net result was an increase in
7 the default values. Factor of 4 for
8 plutonium. It went up from 100 to 400 parts
9 per billion. They used the subgroup 8 which
10 happened to be the magnesium fluoride data
11 set. A factor of 3 for neptunium and a factor
12 of 2 for technetium-99.

13 There are still some outstanding
14 problems with it and this is probably -- slide
15 10 really lays out our position on this at
16 this point based on our preliminary review.
17 NIOSH continues to correlate the increase in
18 worker exposure potential with receipts of
19 this POOS material beginning in 1973.

20 Remember the new higher defaults
21 are to be applied from '73 on. Prior to 1973,
22 though, they are proposing these very low

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1 continuant concentrations, seven parts per
2 billion uranium, two parts per billion
3 neptunium, and tech-99 is way down there at
4 19.

5 However, at the last meeting in
6 our discussions, one thing we weren't really
7 clear about was where in the process does this
8 POOS material get downblended? Is it up front
9 or a subsequent process that might allow a
10 higher fraction of workers to be exposed. It
11 turns out that this material was downblended
12 before it ever went to the refinery.

13 You have in Plant 1 the sampling
14 plant, milling plant, and also a little bit in
15 Plant 4. This is where this material was
16 downblended. It was downblended to bring it
17 into specifications with uncontaminated
18 uranium oxide before it was fed into the
19 refinery.

20 From the standpoint of the workers
21 downstream of that initial processing, or
22 initial downblending, the arrival of this

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1 material in 1973 really has no impact on
2 exposures that would have been experienced
3 before. So the magnesium fluoride data, which
4 is significantly farther down the stream from
5 the refinery, is really indicative of
6 conditions that existed in this plant from the
7 get go.

8 You've got metal production that
9 has not changed from the inception when the
10 plant was first brought on line until when
11 they stopped. They used the same process,
12 green salt reduction. The same types of
13 apparatus. These high values you're seeing
14 don't just apply to '73 and beyond. They
15 apply all the way back to the extent that they
16 apply at all.

17 From 1973 on, though, '73 to '85,
18 you have this other group of workers who are
19 subjected to the group 10A materials, the most
20 highly contaminated group. We feel that post-
21 downblending are not to be correlated with
22 POOS receipts and the higher defaults may be

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1 applicable. I should have gone to the next
2 slide here. I think I got ahead of myself.

3 Anyway, in summary we've got --
4 this is the snapshot of where we stand on RU
5 right now. NIOSH has proposed higher
6 defaults. They considered variability in the
7 DOE field office reports and their
8 uncertainties.

9 The plutonium defaults were based
10 on the magnesium fluoride data set which is a
11 very robust data set in our opinion. Four
12 hundred data points, site specific. It is
13 limited to the 1980s but the process was
14 unchanged from earlier periods. Back
15 extrapolation is not the kind of issue it
16 might normally be.

17 It is the highest group except for
18 subgroup 10A. Log-normal fit actually over-
19 predicts the 95th percentile of the data. If
20 you look at the data set, the probability plot
21 actually has kind of a hockey stick shape to
22 it. The 95th percentile fit is above most of

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1 the data points.

2 The initial POOS feed
3 concentrations in subgroup 10A is where we
4 still have an issue. This may impact the
5 handlers, downblenders, and possibly indirect
6 exposures to nearby workers, bystanders who
7 may also be subjected to these high
8 concentrations.

9 The data set contained only 39
10 points. It's extremely variable and
11 uncertain. We have in the DOE a Ohio report.

12 I think it's Appendix F where they have the
13 summary statistics. No, it might be C. I
14 forget. Basically they have all the different
15 data points tabulated for the different
16 groups.

17 What they have is for this group
18 10A it's about the only set where you've got
19 measurements taken by two different
20 laboratories at two different locations.
21 You've got measurements taken at Paducah and
22 you also have measurements on the receiving

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1 end at Fernald.

2 Just an example, one of the most
3 highly contaminated batches, one of the
4 hoppers, there was a variability of almost a
5 factor of 10 based on two measurements from
6 that one hopper. You've got very sparse data
7 set, highly uncertain, high amount of
8 variability.

9 NIOSH in our meeting claimed that
10 the operators at the plant, at NLO, knew that
11 this material was coming. They used airline
12 respirators, special procedures to protect the
13 workers. From a common sense standpoint that
14 makes perfect sense. However, our review of
15 the historical documentation, the RU Task
16 Force report, kind of cast doubt on the
17 effectiveness of these procedures in time.

18 We have a potential exposure whose
19 impact has not been quantified or estimated at
20 this time. We feel that it's significant from
21 about '73 to '85, particularly from 1980 to
22 1986 when the most contaminated ash was

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1 received.

2 As Brad mentioned, one of the
3 action items from the November meeting for
4 NIOSH to conduct a search for additional
5 documentation, the raw data, and that's where
6 this 450 boxes from Legacy National came from.

7 Any questions about recycled uranium at this
8 point or can I go on? Any questions? Too
9 many questions? Okay. Let's go ahead and
10 move on.

11 CHAIRMAN MELIUS: Well, maybe I
12 can ask now since you brought it up again. Do
13 we have any idea on these 450 boxes what they
14 contain?

15 MR. STIVER: As of the meeting the
16 contents were unknown.

17 CHAIRMAN MELIUS: Mark.

18 MR. ROLFES: This is Mark Rolfes.
19 We have samples some of the 450 boxes held at
20 DOE Legacy Management. I think we sampled
21 roughly 25 to 35 of those boxes. They do
22 contain isotopic analyses from the Fernald

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1 site for the various constituents of the
2 recycled uranium that was processed at
3 Fernald.

4 From my recollection these samples
5 were collected from the '60s, '70s, '80s.
6 There was a lot of focus on the 1980s
7 primarily because that was the time period
8 that the highest transuranic contaminated
9 materials were processed.

10 We haven't gone through an
11 extensive -- we haven't gone through the
12 entire contents obviously because of the
13 volume of records that are available. I don't
14 know if you have any other questions.

15 CHAIRMAN MELIUS: No, just trying
16 to get at least a preliminary understanding.
17 Thanks, Mark.

18 Wanda, you had a question? Then
19 Bob.

20 MEMBER MUNN: I'm not sure I can
21 even phrase this question properly because I
22 think I missed something on what you were

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1 saying, John, when we were talking about POOS
2 when it went into the process. I didn't quite
3 follow after you said it came into the front
4 end. Therefore, it would not have had any
5 effect on the downstream exposure prior to the
6 time that it arrived or after it arrived. Did
7 I misstate that?

8 MR. STIVER: Yes. The reason
9 being is the POOS materials were downblended
10 in Plant 1 before they were ever fed into the
11 refinery.

12 MEMBER MUNN: Right.

13 MR. STIVER: The concentrations in
14 that material going into the refinery would
15 have been diluted down so it wouldn't have had
16 this big bolus of highly contaminated material
17 going through the refinery and on to
18 subsequent steps. It was downblended and
19 diluted beforehand.

20 MEMBER MUNN: It was downblended
21 to the point that there was no significant
22 difference between that blend and what the

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1 downstream workers were handling before this
2 process began?

3 MR. STIVER: I believe they were
4 downblending it not to 10 parts per billion.
5 I don't remember the exact number. I believe
6 it was between 10 and 20. You can see from
7 the magnesium fluoride data sets that has an
8 order of magnitude higher than what's coming
9 in in the feed.

10 You really have this group of
11 workers who have the highest exposure
12 potential by virtue of this concentration
13 mechanism that is going on. That
14 concentration if you look at the content of
15 the feed materials over time after
16 downblending, if you look at it on a graph, it
17 would pretty much be a flat line.

18 There might be some little blips
19 here and there. The concentration you're
20 seeing in the 1980s we believe would most
21 likely be applicable to early time periods
22 just based on the process knowledge and the

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1 chemistry that is going on.

2 MEMBER MUNN: So what you're
3 really saying is the POOS doesn't matter.

4 MR. STIVER: It matters for this
5 other group. It matters for the handlers and
6 the downblenders.

7 MEMBER MUNN: Only in Plant 1 only
8 upfront.

9 MR. STIVER: But do we know who
10 those workers are? That's the point beings
11 that hasn't yet been estimated or quantified
12 so that's why we can still consider that an
13 outstanding issue.

14 MEMBER MUNN: Okay. My other
15 question dates back prior to a couple of
16 earlier comments. I have the impression that
17 there is no -- you're saying there's no real
18 reliance on any of the bioassay data that's
19 available.

20 MR. STIVER: Bioassay data that
21 were collected for transurancis and recycled
22 uranium were after 1986 when Westinghouse came

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1 on board.

2 MEMBER MUNN: There isn't anything
3 for the earlier years?

4 MR. STIVER: No, there is nothing
5 for the earlier years but you do have a lot of
6 uranium bioassay data. If you can bound the
7 constituents in that uranium, then you can
8 link that after the uranium bioassay result
9 and that's the strategy that's been employed
10 here.

11 MEMBER MUNN: I guess what I'm
12 really trying to get at is whether there is
13 any question being raised with respect to the
14 bioassay data that does exist for the earlier
15 years.

16 MR. STIVER: The uranium bioassay
17 data has been validated for issue one about
18 the adequacy of the data.

19 MEMBER MUNN: That's what I wanted
20 to verify.

21 MR. STIVER: It was all
22 interrelated. As John Mauro likes to say,

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1 that's the rock we're standing on. That's
2 really the cornerstone.

3 MEMBER MUNN: Something you said
4 led me to believe that because the existing
5 bioassay data did not have some counter test
6 that it was not being relied upon but I
7 misheard what you were saying then.

8 MR. STIVER: That might have been.

9 MEMBER MUNN: All right. Thank
10 you, John.

11 MEMBER CLAWSON: John, if I could
12 just make a comment, too, for the Board. One
13 thing to remember is that Fernald was run as a
14 heavy metals plant, Lead of Ohio. They ran it
15 like a heavy metals plant. They were doing
16 urinalysis just like you would for lead or
17 anything else like that but they were looking
18 for uranium.

19 That's what they had. We've got
20 fairly good data on that. I think it's 450
21 different ones but that's all they did. They
22 ran it like a heavy metals plant until in the

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1 late 1980s and so forth when they were
2 replaced by Dow and so forth. Then they
3 really started -- that's when they started to
4 have a RadCon program for the radionuclides
5 that were out there.

6 MEMBER MUNN: But I think I hear
7 you saying that since you are not -- you don't
8 have enough confidence in your knowledge of
9 the constituents of what was being handled to
10 be able to extrapolate from the uranium data
11 to other radionuclides. I think that's what
12 I'm hearing. Right?

13 MR. STIVER: No. The issue is we
14 felt the default values that NIOSH had chosen
15 were not bounding.

16 MEMBER MUNN: Oh.

17 MR. STIVER: It's tied back to the
18 uranium bioassay data which we feel is solid.
19 It's just those ratios of the contaminants
20 you're going to add into that and
21 corresponding activity to account for these
22 other materials, are those values bounding.

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1 If it's a one-size-fits-all kind of model,
2 it's critical that those values be bounding
3 for all Classes of workers.

4 MEMBER MUNN: So it's the bounding
5 that you are questioning.

6 MR. STIVER: It's really the
7 bounding.

8 MEMBER MUNN: All right. Okay.

9 CHAIRMAN MELIUS: Isn't it whether
10 you can set a reasonable bound?

11 MR. STIVER: Yes, and that's why
12 we think this magnesium fluoride data is so
13 critical to the process.

14 CHAIRMAN MELIUS: Okay.

15 Bob.

16 MEMBER PRESLEY: This is an issue
17 that we've struggled with for a long time and
18 this is a lot of data that's come out. It's
19 not new. We've been discussing this for a
20 while. There's some new stuff that SC&A has
21 brought up here. I would like to know, has
22 HHS had a chance to look at this and see if

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1 they agree with it or what? These issues that
2 we've got now, or what their position is.

3 CHAIRMAN MELIUS: Well, if I
4 understand this correctly, and I hope the
5 issues that you are referring to is that for
6 whatever reason SC&A and the Work Group
7 received the latest NIOSH report relevant to
8 just before the last Work Group meeting.

9 MR. STIVER: Right. It's
10 preliminary.

11 CHAIRMAN MELIUS: So this is a
12 preliminary analysis. SC&A have not even
13 committed to -- have not even been tasked yet
14 with a more complete analysis of that. I
15 think one of the issues -- one of the things
16 going through my mind is we need to get SC&A
17 tasked and then it will be appropriate for
18 either as part of a Work Group session or part
19 of a more formal response for NIOSH to weigh
20 in.

21 I think to resolve this we need at
22 least a response to the NIOSH report and then

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1 we need another Work Group meeting to hash
2 this out. That would include some response
3 from NIOSH. We're not trying to presume that
4 this is all closed at this point in time.

5 MR. STIVER: I would agree with
6 you 100 percent on that.

7 CHAIRMAN MELIUS: Is that fair,
8 Bob? Okay.

9 MR. STIVER: Should we go ahead to
10 the next --

11 MEMBER FIELD: Just a quick
12 question. You said earlier on that
13 construction workers had higher exposures?

14 MR. STIVER: For Savannah River
15 site I did some analysis of their data and for
16 certain years and certain buildings the
17 construction worker values were statistically
18 higher than they were for other workers.
19 Especially when you have a subdistribution.

20 MEMBER FIELD: Do you know why
21 that would be?

22 MR. STIVER: I'm really not sure.

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1 There are probably many different factors
2 that could contribute to that. The fact that
3 they are moving among a lot of different
4 buildings. Plus they may not have had the
5 same level of scrutiny and monitoring that the
6 other workers might have had. We have that
7 uncertainty there.

8 MEMBER FIELD: Okay. Then you
9 mentioned there's a good number of
10 subprocesses that go on?

11 MR. STIVER: I was talking about
12 in relation to the mass balance reports that
13 DOE put out. What they tried to do was
14 account for the movement of these materials
15 throughout the DOE complex. They did that by
16 assigning these data into a subgroup process
17 based on process type.

18 MEMBER FIELD: I see. Okay.

19 MR. STIVER: They came up with 19
20 different subgroup processes.

21 MEMBER FIELD: Okay. Are there
22 workers associated with those?

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1 MR. STIVER: That's where you
2 would be able to identify, I would say for
3 this particular one I keep bringing up, the
4 magnesium fluoride, we know that process was
5 involved in metals production which was also
6 the dustiest process. The dirtiest jobs in
7 the entire plant were metals production. Not
8 only the dirtiest but they also have the
9 highest concentrations.

10 MEMBER FIELD: What I'm wondering
11 is can you like assign workers that match
12 those processes?

13 MR. STIVER: Do you have the
14 granularity to say --

15 MEMBER FIELD: Right. He worked
16 in this process.

17 MR. STIVER: You may on an
18 individual basis. I believe the reason we are
19 going to these -- I don't want to be speaking
20 for NIOSH but it's apparent from my
21 involvement you just don't have the
22 granularity to assign workers into particular

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1 buildings at certain periods of time. A lot
2 of them moved among different buildings.
3 There wasn't always a good record of tracking
4 where they went and when they went and that
5 type of thing.

6 MEMBER FIELD: Do you have any
7 insights whether or not the bioassay data
8 covered most employees or was there just a
9 lockdown on some employees?

10 MR. STIVER: That's a little
11 outside my area of expertise. I believe even
12 in the 1950s about 25 percent of workers were
13 covered. Then in the '60s it was up to 90
14 percent.

15 MEMBER FIELD: Okay. Thanks.

16 MR. STIVER: John might be able to
17 weigh in on that. He did the analysis on that
18 issue.

19 DR. MAURO: Awhile back we looked
20 really carefully at issue No. 1, the
21 completeness and adequacy of the uranium
22 bioassay data which basically was they took

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1 urine samples and measured milligrams per
2 liter of uranium in urine. The data starting
3 in '52 up through '57, 25 percent of all
4 workers had data which is a lot.

5 They had more than one urine
6 sample in a given year. Then starting in '57
7 over 90 percent of all the workers had
8 bioassay data of that type where they had more
9 than one urine sample per year. When I say
10 this is the rock you stand on, it means you
11 got really good urine bioassay data.

12 There still is this question
13 whether the -- there may be a few workers,
14 some workers, who need to use a coworker model
15 but, remember, over 90 percent have the data.

16 Maybe 10 percent you'll have to resort to a
17 coworker model.

18 The coworker model was developed
19 and this question that came up on construction
20 workers really goes to the question, okay,
21 when you do have to use coworker data, does
22 the distribution that you build with all of

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1 this data apply to all workers or is it
2 possible that construction workers may need
3 some adjustment as was done with Savannah
4 River?

5 That's the question that is being
6 looked at by NIOSH by looking at that subset
7 because they do have that data. They could
8 break out those workers and ask themselves if
9 one size fits all or do you need an adjustment
10 factor.

11 SC&A's position is that if there
12 is a difference, it will be apparent once you
13 sort that data and the degree to which you
14 need an adjustment factor will emerge from
15 that. That's why we refer to it as a Site
16 Profile issue more than an SEC issue.

17 MR. STIVER: Okay. Issue 4. This
18 is for the intakes of radium and thorium-230
19 by the raffinate workers, the Plant 23
20 refinery workers who handled these wastes.

21 Based on our former discussions
22 and exchanges of White Papers, we believe that

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1 the NIOSH OTIB-25 which utilizes radon breath
2 data to ascertain radium and thorium intakes
3 is a sound methodology. We have no issues
4 regarding that with this caveat that the
5 intake ratio of the two radionuclides are
6 known and the worker population be identified.

7 The remaining issue we had with
8 this is there is a subgroup of workers for
9 which they have potentially high intakes of
10 thorium-230 in these waste streams without a
11 corresponding radium concentration or a
12 significant uranium concentration.

13 This is what sparked the review of
14 Revision 7 of this White Paper that is listed
15 here under the status of the issue. NIOSH
16 posted their response to our review of their
17 White Paper, this Revision 7 White Paper on
18 Fernald thorium-230 and other associated
19 radionuclides Revision 7 so NIOSH has posted
20 their response to that.

21 Let me just back up and say what
22 the issue was here. Most of these Q-11 pitch

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1 blend sources of feed materials came in from
2 the early '50s until about 1958. Then after
3 that Fernald went more -- started processing
4 yellowcake produced in the U.S. and Canada.

5 This material already had the
6 radium extracted from it but not the thorium-
7 230 so you have material going to these three
8 different silos. There's 1 and 2 contain the
9 K-65 materials, a great deal which came from
10 Mallinckrodt in about 20,000 barrels that were
11 then hand dumped into a slurring device and
12 then fed into the silos. They have radon
13 breath data for that group of workers.

14 But we're concerned with these
15 people for which uranium bioassay data is
16 going to be below the detection limit and you
17 don't have any radium that could be measured
18 either. How do you get a handle on these
19 potential thorium-230 intakes for these
20 workers?

21 Well, at our last Work Group
22 meeting -- Mark, correct me if I'm wrong on

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1 this but the way I understood it was what they
2 are going to do they essentially consider that
3 this is going to be an non-exposure situation
4 because this material that was -- this
5 yellowcake, when it was handled, when the
6 raffinates were produced, the material was
7 calcined.

8 This was from a period about up
9 until 1962. The reason they did that was to
10 recapture the nitric acid because it was
11 valuable. What you are left with here is this
12 fine dispersable dry powder. But NIOSH's
13 position, and what the source documentation
14 indicates, is that this process took place in
15 a closed system.

16 Calcining mechanism was closed and
17 then it was airlifted over to silo 3. Then
18 they showed in Appendix A of this report a
19 series of air-sampling data that show in the
20 raffinate area you've got basically detection
21 limits, MDL levels of air concentration.

22 What they are proposing to do is

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1 then they're saying, "Okay. Well, we know
2 this material. If there was any kind of an
3 intake, the uranium content is not zero but
4 it's going to be below the detection limit."
5 It becomes one of these missed dose situations
6 where you take half the detection limit.

7 Then based on the known ratios for
8 measurements of what was in the silo, you know
9 the ratio of uranium to thorium-230 and then
10 you can make an adjustment factor. It becomes
11 one of these using the uranium data as a
12 surrogate for these other nuclides when the
13 concentration ratios are known.

14 Mark, is that pretty close to
15 what --

16 MR. ROLFES: This is Mark. Yes,
17 what you said is essentially correct. The DWE
18 data in the raffinate areas were very low air
19 concentrations right around background
20 essentially.

21 If, for example, an individual was
22 potentially exposed to silo 3 material, we

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1 could use their urinalysis data and it could
2 be a positive urinalysis data. There is
3 nothing -- you know, even if it's not a
4 positive urinalysis data, we would still use
5 that data to assign ratios of other
6 radionuclides.

7 MR. STIVER: So there is no
8 intention of using the DWE data for the entire
9 plant to do any kind of bounding doses?

10 MR. ROLFES: We can certainly do
11 that if we needed to but we're using the
12 urinalysis data.

13 MR. STIVER: At this point you're
14 not doing that. Okay. All right. I just
15 wanted to be clear on that. Thank you.

16 The small script down here under
17 the second main bullet really is just a
18 bulleted outline of what we just discussed,
19 how this material was calcined, how it was
20 transferred in a closed system.

21 We basically agree with this
22 adjustment factor. We think that would be an

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1 adequate way to control these doses which are
2 in all likelihood very small.

3 We believe it's a tractable Site Profile-type
4 issue and no action items emerged related to
5 Issue 4.

6 Issue 5. This has a long and
7 storied history. There have been numerous
8 White Paper exchanges. I know SC&A has
9 produced five papers on this particular issue.

10 In summary, our position on this
11 is that the NIOSH estimate for radon release
12 from the K-65 silos is substantially
13 underestimated. We also believe that their
14 atmospheric dispersion modeling is not
15 scientifically valid for the configuration for
16 the silos that exist.

17 While it actually results in an
18 overestimate, the overall net effect is still
19 not enough to compensate for the
20 underestimated source term. Lots of back and
21 forth discussions, lots of White Paper
22 reviews. As a practical matter, both DCAS and

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1 SC&A believe this is a tractable problem.

2 It is not an SEC issue. We have
3 agreed to disagree. They have not accepted
4 our approach and we believe that there are
5 still significant problems with ours. This
6 really is -- we have confidence that this can
7 be bounded based on our own analyses that have
8 been done in these White Paper reviews.

9 At the April meeting, I believe in
10 the transcript you'll see, that the Board
11 agreed to move this from the SEC list of
12 issues into TBDs.

13 There were some outstanding action
14 items from February 9th. One was to go back
15 and look at any cases that might have been
16 impacted by these findings. I don't think
17 there was any resolution of that.

18 I know there was kind of an
19 outstanding item but we thought it would be a
20 very small number if any at all because the
21 lung cancers were basically treated as --

22 DR. MAURO: In concept though

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1 we've had all these disagreements on how much
2 radon is coming out of the silos, we think
3 it's quite a bit more than their estimate and
4 have the disagreements on how you model the
5 atmospheric dispersion. In the end what
6 you're really saying is how is that going to
7 change your dose reconstruction.

8 Are there people that where there
9 were dose reconstructions done, would the
10 outcome of those dose reconstructions, which
11 mainly affect the respiratory tract, would any
12 of them be affected by whether we used our
13 approach or we used their approach. I think
14 that was the question that you are referring
15 to.

16 MR. STIVER: That was the
17 question. I don't know if that had been
18 looked into at this point.

19 DR. MAURO: I would have to say I
20 think NIOSH did look into that matter but I
21 don't recall the answer.

22 MR. STIVER: Okay. In any case,

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1 this is no longer considered an SEC issue and
2 it will be discussed in the TBD context.

3 Issue 6. This is a two-part
4 issue. This regards the reconstruction of
5 exposures from the inhalation of thorium-232.

6 There is a time period for which monitoring
7 is not available from 1954 to 1967. This is
8 Issue 6A, the use of this DWE data.

9 Basically what you have for the
10 different plants -- let me back up here. Is
11 everybody familiar with what a DWE is? Do you
12 all understand that concept? Basically it's a
13 time weighting of these general air samples
14 and breathing zone samples for a particular
15 job and particular facility.

16 What they do by doing time motion
17 studies for particular work, a particular type
18 of worker is known to do a certain number of
19 tasks throughout the day. They know the time
20 it takes to produce these tasks, what the
21 tasks entail. What they do is they monitor.

22 They set up samplers, little

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1 lapel-type breathing zone sampler, to really
2 capture what this worker might be exposed to
3 based on the air concentrations during the
4 course of the day. Anywhere from about --
5 I've seen any number of about three to 22
6 different types of tasks associated with a
7 given job. For each one of these tasks
8 there's replicate measurements taken.

9 There's a high degree of
10 variability, particularly in the general air
11 sample for the fixed samplers. There are
12 changes in airflow patterns, there are changes
13 in the particular size distribution, and a lot
14 of other factors that can come to play here
15 that result in a lot of variation and when you
16 look at the source data you see that.

17 What we have then is NIOSH's
18 proposed response to our White Paper. First
19 of all, this is such a complicated issue it's
20 hard to frame it sometimes. Back in March of
21 2009 NIOSH put out a White Paper where they
22 laid out a methodology for using this DWE data

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1 to bound thorium intakes, or to assess thorium
2 intakes.

3 We were tasked to review that and
4 we produced a White Paper response that July.

5 In that response we had 20 findings. Eight
6 of those were related to the data adequacy and
7 validity. The others were related to the
8 modeling mechanisms.

9 Basically our problem with the
10 data validity had to do with the fact that the
11 DWE, which was instituted by the Health and
12 Safety Laboratory back in the 1940s, it was
13 really intended just to monitor work place
14 conditions. It was not ever intended to be
15 used for dose assessment.

16 They would collect these data.
17 It's obviously a snapshot in time. It's
18 representative of what that particular worker
19 was exposed to during that sampling period for
20 that day in that facility.

21 They compiled these things and
22 they looked at them and they said, "Okay.

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1 We've got people that are above the maximum
2 allowable concentrations in this particular
3 part of the building doing this particular
4 operation. How can we modify that to bring
5 these values down?" So it was basically an
6 index to exposure but not used directly for
7 dose assessment.

8 What they did not do was perform
9 any kind of an uncertainty analysis on these
10 data. Really what you have is you've got a
11 whole distribution of DWEs but you only have
12 one average. Basically these reports will
13 show you a high value and a low value and an
14 average and it will tell you the number of
15 samples that were taken.

16 In some cases the raw data exist.

17 In other cases we haven't located that data.

18 As a result of this issue it's common within
19 the EEOICPA program. Adam Davis and Dan Strom
20 in 2008 published an uncertainty analysis
21 where they looked at five different facilities
22 that used DWEs from 1948 to 1955.

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1 There were approximately 165
2 workers, 63 job categories, about 430 air
3 samples. They used Monte Carlo methods and
4 they looked at the different -- they basically
5 looked at the variability in the data set.
6 The fundamental unit of measure here was this
7 task air concentration measurement for which
8 there were typically replicates.

9 I've seen up to 15 or 20 samples
10 for one given task. They would take this and
11 look at it two different ways. They looked at
12 a discrete distribution where using Monte
13 Carlo methods they would go through. For each
14 run they would pick at random one task value
15 for each of those, multiply by the time
16 weighting and there's one outcome.

17 They would do that 10,000 times
18 and build an output distribution. For the
19 discrete data it's very spiky. It doesn't
20 really seem to comport with any type of
21 statistical distribution.

22 They also looked at log-normal fit

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1 of this data. They took the data set and
2 constructed a log-normal -- assumed that it
3 followed log-normal statistics. They did a
4 fit and then they would go through and do the
5 same Monte Carlo methods. Go through and pick
6 off one of these values, 10,000 iterations or
7 whatever, and produce a nice output
8 distribution.

9 When you overlay those two the
10 discrete, which is based on the actual data,
11 and then the log-normal fit you see that the
12 log-normal always has a tail that extends far
13 beyond the highest actual measurement. That's
14 one of the advantages of using the log-normal
15 is because it accounts for the potential for
16 values that were not measured.

17 In actuality I believe the
18 standard deviations were about one-and-a-half
19 to two-and-a-half times higher for the log
20 fits than they were for the discrete fits.
21 This is important because one of the problems
22 we've always had with this DWE concept is that

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1 you've got types of admissions or events that
2 might take place over a short period of time,
3 or sometimes chronic events like some of these
4 fugitive emissions from ball mills and things
5 like that.

6 The historic record is just rife
7 with these descriptions of how dirty these
8 operations were. But, you know, as a general
9 air sample is it in the right place for a
10 particular day to measure the dust that is
11 coming off of that fugitive emission. We have
12 these uncertainties in data that weren't
13 measured. The log-normal gives you a way to
14 at least account for that.

15 Davis and Strom went through and
16 they analyzed all these data and they produced
17 geometric standard deviations, GSDs for these
18 data sets, and they came up with a 95th
19 percentile GSD of about 4 and the 99th
20 percentile ranged up to about 7 or 8.

21 The GSD of 5 is probably pretty
22 good for DWE data so you have kind of a

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1 recommendation, and it's not really an
2 endorsement or policy statement or anything,
3 but they recommend that a GSD of 5 is probably
4 going to be adequate to bound DWE data for
5 particular jobs.

6 And NIOSH came back after our
7 review in July actually in response to -- we
8 found out about this through Weldon Spring
9 because they had the same kind of problem at
10 the Weldon Spring site. It turns out NIOSH
11 had issued a new revision to their method that
12 had abandoned the previous approach in favor
13 of this Davis and Strom method.

14 It's really kind of a shortcut
15 method because -- actually I can show you.
16 Okay, here we go. My eyes aren't as good as
17 they used to be. You can really distill this
18 down to four recommendations. NIOSH has taken
19 the Davis and Strom methodology and applied it
20 to their particular situation here and this is
21 what emerged.

22 They are going to assign the DWE

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1 for the job description with the highest DWE
2 in the facility where thorium was handled for
3 a particular year to every worker in that
4 plant with a GSD of 5.

5 Just think about what this means.

6 You've got, say, a guy in Plant 9 where they
7 did the metals production for thorium. You've
8 got a whole range of workers in there. You've
9 got supervisors. You've got people who really
10 don't handle the metal so much. And you've
11 got the guys like the laborers and helpers
12 who've got their heads down in these reduction
13 pots scrubbing them out.

14 Maybe they had respiratory
15 protection and maybe they didn't. You've got
16 that guy who is doing that job in Plant 9 in
17 1955, has a DWE of 685 MAC. MAC is the
18 maximum allowable concentration. This guy is
19 getting huge intake.

20 It's a very dusty environment.
21 You're looking at that guy and say, "We're
22 going to take him. Everybody in this plant is

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1 going to get this DWE. Not only that, we're
2 going to assign a GSD of 5 for the uncertainty
3 to account for what we may have missed." You
4 might look at that and say is that really
5 plausible?

6 Yes, it is because you actually
7 have the data. You have an average
8 concentration of 685 MAC for this category of
9 worker and there is uncertainty involved in
10 that. Now, did every single worker in that
11 plant do that job? No, but some of them did
12 but you don't know who they are. We believe
13 that is a reasonable approach to take.

14 The next step. If you don't have
15 air sampling data or you don't have DWEs at
16 all, what you can do is take a high DWE from
17 an adjacent year. If you are missing one or
18 two years but you have information for the
19 previous year and later years and you know the
20 processes hadn't been altered during that
21 time, you can be reasonably sure that you can
22 use the data from another year.

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1 It's a pretty common practice.
2 I've seen it done a lot in dose
3 reconstruction. Again, assign a GSD of 5. If
4 you don't have DWE, if you don't have time
5 waiting, what they are proposing to do is use
6 the 95th percentile of year sampling data.
7 Basically you just take all this data.

8 For the guy whose got the 685 MAC,
9 he's got one job that took 15 minutes to do,
10 scrubbing out the pots. The concentration in
11 that particular job was like a million DPM per
12 cubic meter. It's so dusty you couldn't
13 breathe it for any length of time at all.

14 If you're using the 95th
15 percentile, Davis and Strom showed that if you
16 do this you are going to capture every DWE but
17 it may not be physiologically realistic.
18 That's not always going to be the case. You
19 may have another plant somewhere, say the
20 pilot plant, or the refinery where you've got
21 low concentrations. You take the 95th
22 percentile and it's physiological possible.

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1 Davis and Strom aren't really --
2 they don't really come down with any
3 particular recommendation on this. They do
4 seem to believe that the average of the
5 unweighted air concentrations is adequately
6 claimant-favorable.

7 However, they showed that it
8 bracketed 60 of the 63 job categories so you
9 still have three jobs for which it didn't
10 apply. This is still kind of an area that is
11 open here.

12 CHAIRMAN MELIUS: John, can we try
13 to move this along a little bit because we're
14 running up against --

15 MR. STIVER: I'm sorry. I'm too
16 far into the details.

17 CHAIRMAN MELIUS: We have to have
18 questions and so forth.

19 MR. STIVER: So basically one of
20 the other things Davis Strom found is that
21 this idea of what they call blunders in the
22 ISO document, they found those could result

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1 and they did take place on the average of
2 about a factor of 200 underestimate all the
3 way up to a factor of 10 underestimate.

4 We believe that NIOSH should
5 undertake a review of the raw data to just get
6 some kind of a bound on the frequency and
7 magnitude of these blunders. We also believe
8 that this issue of the 95th percentile needs
9 to be reviewed.

10 At this point there really are no
11 action items regarding Fernald. I know NIOSH
12 is developing a method for looking at blunders
13 for Weldon Spring which would evidently be
14 used for these other sites as well.

15 Issue 6B. This is the later
16 period from 1968 to 1988. NIOSH used chest
17 count data from the mobile laboratory from Y-
18 12. Again, lots of White Papers going back
19 and forth. There's no DWE data after '68 so
20 the ability to reconstruct these doses is
21 completely dependent on the integrity of this
22 chest count data.

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1 We have two issues, data adequacy,
2 data completeness. Regarding data adequacy,
3 from the early decade 1968 to '78, the data
4 reported in milligrams of thorium. However,
5 we have no information on the calibration. We
6 don't know which decay daughter product was
7 used, whether it was actinium or lead-212.

8 We have highly variable and
9 uncertain data that doesn't comport well with
10 biokinetics during this period of time and an
11 MDL which appears to be not supported by the
12 data set or by the references. The subgroups
13 are easily distinguishable below the detection
14 levels which we don't feel should be possible.

15 From '79 to '88 they reported
16 nanocuries of thorium based on lead-212. Once
17 again, the MDA appears high, in 85 percent of
18 the data or below the detection limit. This
19 equilibrium factor, this is a factor to
20 account for this equilibrium once thorium is
21 separated. In theory it would reach a low of
22 about .4 several years after separation and

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1 build back in to one.

2 I know NIOSH posted a new document
3 yesterday and one of the things they did was
4 revise their estimate of this equilibrium
5 factor down. We still have issues on that
6 regarding some of the experimental data that
7 shows it could be a factor of 10 to 100 lower
8 based on the solubility type.

9 Data completeness. At the last
10 meeting NIOSH indicated that they thought that
11 their distribution was broad enough to account
12 for all the workers and thorium workers would
13 probably be -- if you couldn't identify them,
14 then the chemical workers would be a
15 reasonable surrogate.

16 Our position is we looked at that
17 and we found that, first of all, you only got
18 thorium workers for 1968. There's like 60
19 people who are identified as thorium workers.
20 We took a look at their distributions
21 compared to chemical workers and this is what
22 we find. The thorium workers have

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1 significantly higher intakes throughout the
2 entire portion of that curve compared to
3 chemical operators who were non-thorium
4 chemical operators.

5 You also see that in all this data
6 you are below 6 milligrams for almost all of
7 it, yet you can still discern these subgroup
8 differences which gets back to the MDA issue.
9 Here is all chemical operators and all
10 workers. They are basically the same.

11 Action items that emerged. NIOSH
12 is going to post about 300 pages of
13 calibration information from the Y-12 lab.
14 SC&A will prepare a formal White Paper report
15 on this thorium worker subgroup issue.

16 So, in summary, this is the last
17 slide Brad showed you, we've got the issue 1,
18 the construction worker subgroup analysis.
19 Issue 3, still SEC issue, we believe,
20 regarding recycled uranium for these front-end
21 workers that handle the most highly
22 contaminated materials.

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1 Issue 6B. I think there's SEC and
2 TBD components. The SEC component being that
3 the milligram thorium data adequate for dose
4 reconstruction for that first 10-year period.

5 Also more of a TBD issue given that the data
6 are adequate and what kind of adjustment
7 factor would be needed to account for the
8 thorium worker subpopulation.

9 That's it. I am certainly willing
10 to entertain questions at this point.

11 CHAIRMAN MELIUS: Thank you, John.

12 Questions? I have a couple. Just out of
13 curiosity the Davis and Strom paper, is that
14 something that was done for this program or is
15 that something independent?

16 MR. STIVER: It wasn't done under
17 the aegis of EEOICPA but it was done to
18 address this issue that has come up in this
19 program. I don't know if it was funded
20 through DCAS or what organization did that.
21 It was published in Health Physics literature.

22 CHAIRMAN MELIUS: Okay. I would

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1 just be curious to understand that. It
2 certainly seems to have been something for
3 this program. It's certainly relevant to it.

4 My second question is on your
5 summary. Maybe I misunderstood the item issue
6 No. 1, the coworker model. It seems to me, at
7 least one of the messages I got from you, it
8 wasn't even clear to me that a coworker model
9 was feasible partly because people were moving
10 around so much and so forth and whether you
11 would have enough data to do that.

12 MR. STIVER: That construction
13 worker sub-issue.

14 CHAIRMAN MELIUS: I guess we'll
15 see with the report but to me it still appears
16 to be potentially an SEC issue.

17 MR. STIVER: It's what kind of
18 adjustment would it take. We figure they use
19 about 10 percent of the values to determine
20 the kind of adjustment to ensure bounding.

21 CHAIRMAN MELIUS: Okay.

22 Anybody else have questions?

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1 Okay.

2 Brad, do you want to say anything
3 just to finish up here?

4 MEMBER CLAWSON: We never tasked
5 SC&A with the final report for NIOSH's
6 response.

7 MR. STIVER: For the RU issue?

8 MEMBER CLAWSON: For the RU. I'm
9 wondering if we need to address that.

10 MR. STIVER: Go ahead and do that?
11 It will be an action item?

12 CHAIRMAN MELIUS: Yes, but let's -
13 - Josie.

14 MEMBER BEACH: I have a question.
15 The additional 450 boxes has come up several
16 times. Both SC&A mentioned it and NIOSH. Is
17 there going to be some tasking for SC&A based
18 on that or -- I'm just curious what's going to
19 happen with the boxes or what is the forward
20 path.

21 CHAIRMAN MELIUS: You know, I
22 think to me going forward certainly SC&A --

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1 the Work Group needs to meet again, I think,
2 between now and August.

3 Secondly, the SC&A needs to be
4 tasked to review the NIOSH report that came
5 out just before the last Work Group meeting
6 and they need to have some -- then NIOSH
7 probably needs some time to also build into
8 that to review and at least be familiar with
9 the SC&A report.

10 We need to bring that to closure.

11 I would also think NIOSH needs to sort of
12 figure out what the schedule is for dealing
13 with those 450 boxes because I think it's a
14 question of what's feasible.

15 I don't think we are even at a
16 point of having SC&A review them as much as
17 the question is are they relevant enough that
18 some judgment be made that they are going to
19 affect the outcome and what is the time frame
20 for that. I assume eventually they will get
21 inventory but whether that's two months, six
22 months, five years, I don't know.

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1 I don't think it's fair given
2 resource issues related to that to give an
3 answer right here but I think at some point
4 the Work Group needs to understand that. We
5 certainly need to understand that by our
6 August meeting.

7 Are there any other sort of action
8 items that people see? Henry.

9 MEMBER ANDERSON: Just the issue
10 of the boxes. From worker interviews and any
11 other -- I mean, is there a claim somewhere
12 that there's missing data as far as
13 biomonitoring, things like that, that this
14 could represent versus, you know, there's a
15 lot of records that are just records that
16 wouldn't deal with this.

17 CHAIRMAN MELIUS: I think based on
18 -- Mark, why don't you go to the mic? You can
19 correct me. These might be relevant but it's
20 the question of what time frame they were
21 collected in or what's in those boxes in terms
22 of what time frame may determine how relevant

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1 they are. It may be difficult to tell without
2 going through all 450 to determine that. Then
3 the question is what time period and how
4 relevant they are. Is that a fair statement?

5 MR. ROLFES: I was going to say --
6 this is Mark Rolfes. Some of the information
7 that we've seen in the boxes that we've
8 sampled have, for example, each uranium ingot
9 that was produced by the Fernald site.

10 Each of the uranium ingots that
11 was produced at the Fernald site would have
12 been sampled. They would have taken a little
13 bit of the uranium metal that was produced.
14 Those are the types of records that we've seen
15 primarily in this 450 boxes of records.

16 These are not worker bioassay
17 results or air monitoring results which would
18 be directly used in dose reconstruction.
19 These are essentially the raw data which I
20 suspect were compiled by the Department of
21 Energy for the recycled uranium Ohio field
22 office report in 2000.

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1 CHAIRMAN MELIUS: Any other items
2 that people -- can we at least formally task
3 SC&A? I guess since we are meeting as a
4 Board, we should do it as a Board.

5 Brad, want to make a motion?

6 MEMBER CLAWSON: I would like to
7 make a motion that we task SC&A to review
8 NIOSH's recycled uranium paper.

9 MEMBER BEACH: I'll second that.

10 CHAIRMAN MELIUS: All in favor,
11 say aye.

12 (Chorus of ayes.)

13 CHAIRMAN MELIUS: Opposed? Okay.
14 So tasked.

15 Brad, as Work Group chair, if you
16 can sort of organize the follow-up meetings
17 and do some of this coordination. Thank you.

18 Thank you, John, for a very
19 thorough and helpful review. Obviously a lot
20 of work has been done but it's been a long
21 time also. Hopefully we get resolution, or at
22 least I would like to aim for resolution on

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1 this for August. If not, at least a lot of
2 progress trying to narrow down what needs to
3 be done here. It's been five years, Brad?
4 Yes. Do that.

5 Did Jim rejoin us? Let's try to
6 plan on doing some of our work session until
7 3:30 and then we'll take a break and come back
8 at 4:00. Is that satisfactory? I think we
9 have enough time in our schedule.

10 MR. KINMAN: I apologize. Can I
11 just interrupt? Ted, I'm not sure if you
12 spoke to the petitioner but I believe that she
13 was expecting to possibly address the Board.

14 MR. KATZ: I'm sorry. The sheet I
15 have indicates that you didn't get a hold of
16 her.

17 MR. KINMAN: I apologize that you
18 may not have the most updated information.

19 MS. BALDRIDGE: This is Sandra.

20 MR. KINMAN: She's on. Okay.

21 CHAIRMAN MELIUS: Okay. Go ahead.

22 MS. BALDRIDGE: I've been

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1 listening to the discussion and made a couple
2 notes, especially since I still have concerns
3 about the data quality. When it was mentioned
4 about the HIS-20 data, that was examined for
5 transcription errors and the transcription was
6 sound and was confirmed to be accurate. It
7 wasn't examined, to my knowledge, for accuracy
8 in the data itself but only for transcription.

9 National Lead of Ohio acknowledged
10 in their historical documents that were
11 included in the petition that there were
12 deficiency in the work records to the point
13 that they often didn't have knowledge of the
14 jobs or the tasks that the individual workers
15 would perform.

16 Now, dose reconstruction requires
17 knowledge of what workers were exposed to
18 based on where they were working. The
19 individual data was never compared to the high
20 air monitoring MAC, the general air count.
21 The urinalysis were never compared to that to
22 see if there was a correlation between what

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1 the urinalysis was showing or the dosimetry
2 was showing to see if they were actually
3 assigned the right job task for dosing or even
4 the right job location, plant location.

5 That is part of my concern. There
6 have been assumptions made in dose
7 reconstruction based on where they think
8 people were working and they, therefore,
9 assigned those doses when, in fact, the
10 individual was not working at that job
11 assignment and did not receive the doses
12 assigned that corresponded with that job.

13 Now, it was recommended probably
14 three, three-and-a-half years ago, that they
15 take a look to see if some of the individuals
16 that were suppose to have been working in
17 areas with extremely high general air level
18 MACs, I mean, in some cases we're talking
19 thousands over months and months and years,
20 and whether those individuals' records showed
21 that.

22 Now, it should have been a

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1 relatively simple task if they knew who was
2 working at what job and who actually was
3 receiving those exposures but nothing was ever
4 pursued to see if there was a correlation that
5 could confirm that the job assignments were,
6 in fact, the correct ones. That is still an
7 issue that hasn't been addressed.

8 At this point we have finished
9 five years. We are into the sixth year. The
10 petition was submitted in '05. We are in '11.

11 By August we will almost have completed five-
12 and-a-half years of evaluating documents and
13 data. I really think enough is enough.

14 There are answers that we are
15 never going to have. This could be an ongoing
16 project, as was mentioned, to go through 450
17 boxes of documents. Why were they just now
18 received? When this petition was presented
19 NIOSH didn't even know that there had been any
20 storing processing done in Plant 6.

21 The Technical Basis Document
22 stated that data has been destroyed so they

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1 proceeded to reconstruct data which absolutely
2 did not reflect the work place or the
3 exposure. Those people who worked in those
4 conditions had their dose reconstructions done
5 based on it being a strictly uranium process
6 and no allowance was made to those workers for
7 thorium exposure.

8 Now, that Technical Basis Document
9 has never been corrected and those dose
10 reconstructions have never been reexamined or
11 redone. That's kind of where I stand, I
12 think. The process I found has deficiencies,
13 at least in my point of view. I just hope
14 things get straightened out and the people who
15 gave their lives are compensated, their
16 families.

17 CHAIRMAN MELIUS: Okay.

18 MS. BALDRIDGE: That's it. Thank
19 you.

20 CHAIRMAN MELIUS: Thank you.
21 Also, Dr. Ziemer, are you on the line? I
22 don't know if you had questions. I neglected

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1 to also ask if you had questions.

2 MEMBER ZIEMER: No, I have none.

3 CHAIRMAN MELIUS: Okay. Thank
4 you.

5 Yes, Brad.

6 MEMBER CLAWSON: You know, Sandra
7 brought up something that we neglected.
8 Fernald actually became the national
9 repository for thorium and we're not talking
10 small amounts. We're talking train cars. I
11 found some documents in Hanford that this was
12 being set up because in the later years they
13 were trying to control all this and it
14 basically became the repository for it.

15 MS. BALDRIDGE: Could I add
16 something to that? The Technical Basis
17 Document acknowledged that it became the
18 repository in the '70s when, in fact, the
19 petition has a document where they are asked
20 to start stockpiling back in the late '50s so
21 there is a considerable time span between the
22 acknowledgment of it being the repository and

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1 when they actually started stockpiling them
2 and storing them on site.

3 CHAIRMAN MELIUS: Okay. Thank
4 you.

5 For our Board work time I guess
6 one of the issues is that -- we have the
7 comments from the November Board meeting,
8 public comments that Ted has provided us.
9 This is one that took some time. Right? So
10 it's a little distance.

11 I don't know if others have had a
12 chance to go through it. It looks like a
13 formidable document but it actually isn't. I
14 did go through it and I actually thought the
15 responses were appropriate except I have
16 questions on one which is on page 90 of the
17 document.

18 LaVon is not here. There he is.
19 Okay. LaVon. This was a comment from
20 Antoinette Bonsignore about Linde. It was a
21 question about failure to meet the time limit
22 requirements and evaluating the SEC petition.

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1 As it summarizes here, LaVon's
2 response was it's always the intent to try and
3 achieve -- I believe there is also
4 correspondence that she had with the Board,
5 and I thought also with NIOSH that the Office
6 of General Counsel had responded to which I
7 don't believe we have ever seen a copy of.

8 I think it would be useful just to
9 reflect that in the response because I think
10 there has been a more formal response. I
11 think you were actually aware of it, LaVon,
12 and so forth. I think that should be
13 reflected in this document.

14 I would also serve that as a
15 reminder if Office of General Counsel could
16 share their response to that issue with us
17 because it keeps coming up at other meetings.

18 That was the only comment I had. I don't
19 know if anybody else has had a chance to go
20 through this or had responses. I thought
21 otherwise it was fine as I recall.

22 MEMBER BEACH: I would like to say

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1 that it's well done and I like that addition
2 of the meeting minutes. That was very helpful
3 in reviewing this. Thank you.

4 CHAIRMAN MELIUS: When I went to
5 look at it and saw how many pages, I said,
6 "Oh, no." Then you see, since I have to
7 review the transcripts anyway.

8 Henry.

9 MEMBER ANDERSON: I was just going
10 to say I did look at it. When you first open
11 it and you see all the pages, but it really
12 was organized well so you should read it but
13 you didn't have to read. The comments were
14 easy to find and I thought they were
15 understandable and succinct which was helpful.

16 CHAIRMAN MELIUS: I'm not sure if
17 I understand what the categories are, the
18 category numbers.

19 Do we need to take formal action
20 on this, Ted?

21 MR. KATZ: No, you don't.

22 CHAIRMAN MELIUS: Then I think we

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1 can consider that closed -- archived. Anybody
2 have any thoughts on the CLL issue or do you
3 want more time until tomorrow to consider
4 that? Or reaction to Wanda's suggestion? I'm
5 asking if people want more time or just get it
6 done. Wanda's suggestion was that we ask for
7 an extension in the comment period from June
8 20th until after our next Board conference
9 call.

10 I would ask, Ted, what is the
11 procedure for doing that? Do we need to just
12 adopt a motion here to that effect or
13 correspondence?

14 MR. KATZ: I'm not even sure you
15 need a formal motion. I mean, clearly it's
16 your intent if that's what you want. If you
17 all say that's what you want, then I think we
18 communicate that to HHS.

19 CHAIRMAN MELIUS: I think we
20 should do that through a motion.

21 MR. KATZ: That's fine. I think
22 you can just do a voice vote.

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1 CHAIRMAN MELIUS: Do we have the
2 date? I don't have the date with me for the
3 next conference call.

4 MR. KATZ: Let me tell you. It is
5 July 11th.

6 CHAIRMAN MELIUS: Okay. Then we
7 would -- I'm trying to pull up dates. That's
8 what day of the week? Do you know? So the
9 comment period could be open until Friday of
10 that week. That would give us time to adopt a
11 letter or set of comments at the conference
12 call and then give some time to submit that in
13 case there is some redrafting or something
14 that has to be done before we send it in.

15 I think the motion would be to --
16 let me make sure I get the dates right --
17 leave the comment period open until July 15th
18 in order for us to be able to have our
19 Scientific Issues Work Group review report
20 back to the Board at our July call and then
21 for us to assemble or review those comments
22 and submit them to the docket. Can someone so

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1 move?

2 MEMBER CLAWSON: So moved.

3 CHAIRMAN MELIUS: The meeting is
4 the 11th. I just wanted to give time. If we
5 have a set of comments, we need to make some
6 changes to those or if there are additional
7 comments that come out of the Board meeting,
8 that would give us to the end of the week.

9 We are going to have to adopt
10 those comments at the Board meeting. We're
11 not going to have time for another Board
12 meeting or call but it would give us a chance
13 just to re-graph those and get those into the
14 docket.

15 MEMBER LEMEN: And that presumes
16 that somebody is going to call a meeting of
17 the Scientific Issues Work Group.

18 CHAIRMAN MELIUS: Correct, to
19 review it. We also have one sort of
20 logistical issue there. David Richardson, who
21 is the chair of that Work Group, has a
22 conflict on this particular issue because of

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1 previous involvement with it. We are going to
2 need a new chair, someone other than David to
3 chair. There are lots of people on that Work
4 Group so I don't think that will be a problem.

5 I will identify someone and make sure that
6 occurs.

7 MEMBER CLAWSON: I would say Dick
8 Lemen but it's up to you. You need a motion
9 to move?

10 CHAIRMAN MELIUS: Yes.

11 MEMBER CLAWSON: I so move.

12 CHAIRMAN MELIUS: A second to the
13 so move?

14 MEMBER BEACH: I will second it.

15 CHAIRMAN MELIUS: Okay. All in
16 favor say aye.

17 (Chorus of aye.)

18 CHAIRMAN MELIUS: Opposed?
19 Abstain? Okay. Good. See, we move along.

20 MEMBER ANDERSON: Now you are
21 committed to having comments.

22 CHAIRMAN MELIUS: But I actually

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1 think if the comment is that these are
2 acceptable -- I mean, these are good, I think
3 it behooves us to go into more detail than we
4 have been able to go through and more than
5 what's in the proposed rulemaking submissions,
6 the other document and so forth.

7 MEMBER LEMEN: I would just say
8 it's going to be hard to get the scientific
9 group together. It's only a month and a week
10 to do that and there are a lot of people on
11 that group.

12 CHAIRMAN MELIUS: It will be by
13 conference call and it's going to have to be
14 who is available for a conference call. I
15 don't think it necessarily needs to be long.
16 I think the preparation for it is probably
17 more of an issue.

18 We are getting into summer time so
19 maybe some vacation issues but I don't think
20 it has to be an in-person meeting. I don't
21 think it would necessarily has to -- are you
22 worried we are going to make you chair and do

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1 all the work? Do I hear another motion? I
2 guess we should say for the record Brad
3 Clawson had to leave to return home.

4 His son is graduating tomorrow. I
5 think he'll be with us on the phone at least
6 tomorrow morning. We are expecting Mark
7 Griffon to arrive tomorrow morning weather
8 permitting. He's got a flight from Boston.

9 MR. KATZ: Related to Mark coming
10 in tomorrow morning, we are actually -- I
11 think folks at DCAS are going to try to get in
12 touch or may have already got in touch with
13 some of the petitioners. For SRS we are
14 actually going to move the time to allow for
15 Mark to participate that.

16 Savannah River right now is on the
17 agenda for 8:30 to 9:30 but we are going to
18 move it to 11:00 a.m. which is within the
19 Board working session so that we can have Mark
20 participate. Like I said, we are trying to
21 get in touch with the petitioners directly but
22 I'm also saying this for the record now and

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1 I'll probably mention it again so that we can
2 get the word out on that.

3 CHAIRMAN MELIUS: At least on your
4 annotated agendas one of the other issues we
5 wanted to work on are dates for our 2012
6 meetings. Let's get on the right calendars,
7 everybody, because I certainly didn't start
8 out that way when I saw these dates.

9 MEMBER LEMEN: When is the
10 December meeting?

11 MR. KATZ: One sec.

12 CHAIRMAN MELIUS: 7th, 8th, and
13 9th.

14 MR. KATZ: Right, 7th through 9th.

15 MEMBER PRESLEY: Tampa?

16 MR. KATZ: Yes.

17 CHAIRMAN MELIUS: And so the week
18 that Ted has suggest for our teleconference is
19 the weeks of January 17th through 20th, 2012,
20 or the following week, the 23rd through the
21 27th. Anybody have preferences or major
22 conflicts that they are aware of? Bring your

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1 cell phone.

2 MEMBER MUNN: Which day?

3 CHAIRMAN MELIUS: The 17th through
4 20th or the 23rd through the 27th.

5 MEMBER MUNN: Since we're having a
6 December meeting, perhaps the second --
7 perhaps the later time would be better served
8 for our purposes.

9 MR. KATZ: So the 25th would be
10 Wednesday if you like to stick with
11 Wednesdays. Does that work for everyone?

12 Dr. Ziemer, Paul, does that work
13 for you?

14 MEMBER ZIEMER: Yes, that's good.

15 MR. KATZ: 11:00 a.m. is the
16 normal.

17 CHAIRMAN MELIUS: Our west coast
18 Members need their beauty sleep. January
19 25th, 11:00. Then for a meeting Ted is
20 proposing the last week in February starting
21 with the 27th or the first week in March.

22 MEMBER MUNN: I would request that

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1 you avoid March simply because I won't be
2 there. The last week in February. I will be
3 gone from the 1st of March for two weeks.

4 CHAIRMAN MELIUS: How about other
5 people?

6 MEMBER ZIEMER: I would prefer the
7 end of February. Ziemer.

8 CHAIRMAN MELIUS: Thank you, Paul.

9 MEMBER ANDERSON: So you're saying
10 the week of the 21st?

11 CHAIRMAN MELIUS: The 27th.

12 MEMBER ANDERSON: So that would
13 run us through --

14 MR. KATZ: The 27th is a Monday.
15 It would be the 27th, 28th, 29th.

16 CHAIRMAN MELIUS: We could do the
17 27th, 28th, 29th.

18 MR. KATZ: We could do that. That
19 would be preferable.

20 CHAIRMAN MELIUS: Wanda would at
21 least have to miss the last day and depending
22 on where we're located, it could be more.

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1 MEMBER MUNN: Honolulu.

2 CHAIRMAN MELIUS: Well, we could
3 meet in Honolulu.

4 MEMBER MUNN: You are welcome to
5 join the Society of Women Engineers there.
6 We're chartering a new section.

7 CHAIRMAN MELIUS: I'll join anyone
8 there. We could start Monday depending on
9 location. I guess that's hard for anybody.
10 It depends on where we are. We could travel
11 Monday morning and start 1:00 or 2:00 in the
12 afternoon but it really is going to depend on
13 location. We could start on Tuesday.

14 It's also a location making sure
15 that Wanda can make it back so she can go on
16 vacation and not have to miss two days of the
17 meeting. Why don't we keep open the 27th
18 through March 1st. Then as we get closer and
19 start to talk about locations, we can pin this
20 down more.

21 MEMBER MUNN: It isn't actually a
22 vacation. It really and truly is a

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1 professional meeting that starts on the 1st.

2 CHAIRMAN MELIUS: And goes for two
3 weeks?

4 MEMBER MUNN: No. The vacation
5 comes after the professional meeting.

6 CHAIRMAN MELIUS: We can work that
7 out then. Okay.

8 MR. KATZ: Okay. So we're going
9 to block off the 27th through the 1st for the
10 present.

11 CHAIRMAN MELIUS: Yes.

12 MR. KATZ: And think about
13 location. Just suggestions for thinking about
14 location. The end of February you probably
15 want to stay relatively south for that so
16 we've got Georgia, New Mexico, Texas,
17 California. We'll have been in Florida in
18 December.

19 CHAIRMAN MELIUS: Notice how well
20 we did in the spring here.

21 MR. KATZ: Indeed.

22 CHAIRMAN MELIUS: I'm not sure

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1 there is ever a good time.

2 MEMBER ZIEMER: Where do we stand
3 on the Santa Susana issues? Is it time to go
4 back out to California?

5 CHAIRMAN MELIUS: It's possible.
6 I think we've got a few meetings in between
7 that we haven't located yet. We have
8 Florida/Tampa in December. Have we done
9 beyond?

10 MR. KATZ: No. This would be the
11 next one.

12 CHAIRMAN MELIUS: The next
13 meeting. Okay.

14 MR. KATZ: We have a number of
15 sites in New Mexico that are still live.

16 CHAIRMAN MELIUS: Santa Susana.

17 MR. KATZ: And Santa Susana.

18 MEMBER ZIEMER: We've just been to
19 New Mexico.

20 MEMBER PRESLEY: Tennessee.

21 MR. KATZ: I mean, Tennessee late
22 February is really asking for trouble it seems

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1 like with weather.

2 MEMBER ANDERSON: We all want to
3 get there.

4 MR. KATZ: We have wanted to go to
5 Nashville, that's true.

6 CHAIRMAN MELIUS: Other
7 suggestions for that?

8 MR. KATZ: We've been to Augusta
9 but there's --

10 CHAIRMAN MELIUS: We've been there
11 very recently.

12 MEMBER BEACH: I think we should
13 put Nashville on the list. Santa Susana, I
14 know Mike is the Work Group chair and we
15 haven't met for some time. I believe we have
16 some documents coming out towards the end of
17 this year.

18 MR. KATZ: Okay. Why don't we
19 ponder. We don't have to settle it here.

20 CHAIRMAN MELIUS: We can follow up
21 tomorrow. Let's look at the document list.
22 It's almost coming on 3:30. We will take a

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1 break.

2 MEMBER ANDERSON: We are just
3 scheduled through March?

4 CHAIRMAN MELIUS: Correct.

5 MEMBER ANDERSON: Okay.

6 CHAIRMAN MELIUS: We haven't got a
7 place for the 2012 meeting. The Board will be
8 back here at 4:00. We have an administrative
9 session, Board Members only, conflict of
10 interest procedures. Those tend to go longer
11 than expected but hopefully less than an hour.
12 Maybe even half hour. I don't know. Then we
13 will reconvene as a Board in open session at
14 6:00 in this room again for those of you who
15 don't have to attend our sort of private
16 meeting here.

17 MEMBER ZIEMER: Dr. Melius.

18 CHAIRMAN MELIUS: Yes.

19 MEMBER ZIEMER: Paul Ziemer here.

20 On that closed session is there a separate
21 call in number that I should be calling in
22 and, if so, somebody will need to email that

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1 to me.

2 MR. KATZ: Paul, yes. I sent it
3 to the people I expected not to be here. I'm
4 sorry. We will email that to you.

5 MEMBER ZIEMER: Okay.

6 CHAIRMAN MELIUS: Thank you for
7 asking, Paul.

8 Okay. We'll break until 4:00 back
9 here.

10 (Whereupon, the above-entitled
11 matter went off the record at 3:30 p.m. and
12 resumed at 6:00 p.m.)

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1 E-V-E-N-I-N-G S-E-S-S-I-O-N

2 6:01 p.m.

3 CHAIRMAN MELIUS: Well, you're
4 addressing the people on the phone.

5 Welcome. This is the public
6 comment period for the Advisory Board on
7 Radiation and Worker Health for those of you
8 phoning in. We will be starting our public
9 comment period. We have the Congressional
10 Office scheduled for 6:00 but, before we do
11 that, I'll let Ted do the introductions.

12 MR. KATZ: Right. Welcome
13 everybody on the line. In the room so far it
14 looks like it's mostly staff here. I'm not
15 sure if there are any members of the public
16 who are going to be addressing us in the room.

17 No one has signed up from here locally,
18 although we have one person signed up to
19 address us by phone.

20 In case there are others on the
21 phone, though, let me just very quickly run
22 through sort of the guidelines about public

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1 address and the Board with it's transcripts.
2 These public comment sessions are transcribed
3 verbatim so your comments are captured in full
4 word for word.

5 Any information you give about
6 yourself personally will be in the transcript
7 and published on the Board's webpage. Any
8 information, though, you might give about a
9 third party would be redacted to the extent to
10 protect their privacy. That's the basic
11 ground rules.

12 If there is someone on the line
13 planning to comment, you can have sort of the
14 full ground rules by looking at the NIOSH
15 website. Under the Board section there is
16 something called a Redaction Policy and that
17 will tell you exactly how this works. That
18 concludes my introductory remarks.

19 CHAIRMAN MELIUS: And our first
20 public comment period is going to be a letter
21 from Representative Costello. I believe we
22 have on the line his Chief of Staff David

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1 Gillies and another staff member Robert
2 Stephan.

3 I believe, Robert, you were going
4 to read the letter into the record?

5 MR. STEPHAN: Yes. Thank you, Dr.
6 Melius. I'm on the line. Is David on the
7 line? I believe David has already called in
8 as well. He may have his phone muted.

9 CHAIRMAN MELIUS: Okay. Go ahead,
10 Robert.

11 MR. STEPHAN: Thank you, Dr.
12 Melius. Congressman Costello could not be
13 with you tonight because the Congress is in
14 session but he has drafted a letter with
15 respect to General Steel Industries that he
16 has asked me to read into the record. We also
17 have provided a hard copy that we hope will be
18 submitted as well if it's needed.

19 Chairman Melius and Members of the
20 Board, I write you on behalf of many of my
21 constituents who work at the former General
22 Steel Industries in Granite City, Illinois.

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1 In the past I have advocated to
2 you on behalf of former nuclear weapons
3 workers at Dow Chemical and Allied Chemical.
4 Thankfully, significant progress has been made
5 by all those involved on behalf of these
6 workers for which I want to express my
7 gratitude.

8 I am equally thankful for those
9 GSI claimants that have been approved for
10 compensation through the dose reconstruction
11 process. However, as I believe we all would
12 agree, significant work remains with respect
13 to compensating the remaining GSI workers.

14 Indeed, the Board has numerous
15 issues before it related to GSI that currently
16 rest with the TBD-6000 Work Group. It is my
17 understanding the Work Group anticipates
18 receiving from NIOSH two White Papers in July
19 and December of 2011 which will provide
20 guidance on the outstanding issues originally
21 proposed in NIOSH's GSI October 2010 Path
22 Forward document.

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1 I also understand from reading
2 transcripts of recent TBD-6000 Work Group
3 meetings the Work Group Members share my
4 sentiment that the outstanding GSI issues need
5 to be resolved as quickly as possible for
6 which I remain appreciative.

7 However, despite the hard work and
8 dedication by all involved, I am concerned GSI
9 workers would be facing an additional six
10 months, and possibly much longer, until the
11 TBD-6000 Work Group is finished with their GSI
12 issues and determinations have been made based
13 on the information provided.

14 It should not be the policy of the
15 Advisory Board that Work Groups have unlimited
16 time to conclude their work. I respectfully
17 request the full Board monitor closely the
18 TBD-6000 Work Group progress and not hesitate
19 to vote on the GSI SEC if TBD-6000 progress
20 does not conclude soon.

21 In closing, I thank you for your
22 service and dedication to our nation's Cold

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1 War heroes and look forward to concluding the
2 work necessary to bring closure for former
3 workers of General Steel Industries.

4 Sincerely, Jerry F. Costello,
5 Member of Congress.

6 CHAIRMAN MELIUS: Okay. Thank
7 you, Robert. Thank the Representative on our
8 behalf. We will have a report from that TBD-
9 6000 Work Group probably at tomorrow's meeting
10 and can update us on their progress. We will
11 certainly do our best to get this done as
12 expeditiously as possible.

13 MR. STEPHAN: Thank you, Dr.
14 Melius.

15 CHAIRMAN MELIUS: The other public
16 comment person that signed up for public
17 comment was Terrie Barrie.

18 Terrie, are you on the line?

19 MS. BARRIE: Yes, Dr., I am.

20 CHAIRMAN MELIUS: Okay. Go ahead.

21 MS. BARRIE: Thank you again for
22 allowing me to call in these comments.

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1 Good evening, everyone. I have
2 two issues that I would like to address
3 tonight. The obvious one is Rocky Flats. The
4 other is the Federal Agency's response to a
5 Freedom of Information Act request. In case I
6 go a little bit longer, you can cut me off
7 anytime and I'll be happy to send my comments
8 to be entered into the transcript.

9 In February, Dr. Melius, you
10 reactivated the Rocky Flats Work Group.
11 Unfortunately, in the past three months no
12 meeting has been scheduled to review the
13 concerns with the emails I have slated or with
14 the Site Profile issues that remain after the
15 vote on the SEC petition.

16 I fear that because of this lack
17 of action that some Rocky Flats claimants may
18 be having their dose underestimated. For
19 instance, a Rocky Flats claimant contacted me
20 to help him with his objection to his denial
21 of Part B.

22 I reviewed the NIOSH report and

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1 among other issues I noted that there was no
2 mention of his work at the stacker/retriever.

3 You may remember that one email dated August
4 1, 2006, states that a person who empties the
5 americium bird cages in the stacker/retriever
6 would have been exposed to radiation levels as
7 much as, and I quote, "a couple of hundred
8 millirems per hour."

9 The claimant estimated that he
10 worked as a stacker/retriever for
11 approximately 54 hours. It appears that he
12 would have received a pretty hefty dose. Yet,
13 this is not considered in his dose
14 reconstruction.

15 NIOSH's report for this claimant
16 still remains difficult to understand. He
17 worked in buildings where thorium strikes
18 happened, or may have happened, where he was,
19 or may have been, exposed to tritium. Yet, I
20 could not find where OTIB-28 or OTIB-66 was
21 used to reconstruct dose. Nor could I locate
22 that the dose reconstructor utilized OTIB-10

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1 for glove box workers' exposure.

2 This claimant was a machinist in
3 the Rocky Flats hot buildings and he would
4 have used a glove box during his employment.
5 I don't understand why a meeting hasn't been
6 scheduled. I hope it is not because the Rocky
7 Flats Work Group is waiting for SC&A's report
8 to the Worker Outreach Work Group concerning
9 the public comments.

10 These are two separate albeit
11 related issues. However, because it may be
12 possible that the dose being reconstructed for
13 Rocky Flats claimants may be underestimated.
14 The Rocky Flats Work Group needs to resolve
15 these outstanding Site Profiles and other
16 issues.

17 The second issue I wish to bring
18 to your attention tonight is the agency's
19 response to the Freedom of Information Act
20 request. Perhaps I should rephrase that to be
21 the lack of response. Honestly, I am not
22 trying to be sarcastic here but the excuses I

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1 have seen for delaying or denying a FOIA
2 request honestly makes me wonder if the
3 agencies have read President Obama's Executive
4 Order.

5 I won't get into the details with
6 my ongoing discussions with the Department of
7 Labor on documents I've requested, but perhaps
8 this battle resulted in the frustration I will
9 air tonight concerning NIOSH and the
10 Department of Energy.

11 In February of this year I
12 requested a copy of the DOE document entitled
13 "Thorium Use at Rocky Flat." This document
14 was reviewed by NIOSH in its investigation for
15 the SEC petition. It was also cited in the
16 NIOSH-ORAU article published in the Health
17 Physics Journal, I believe, in July of 2008.

18 I received a letter last week from
19 the Department of Energy denying the release
20 of those documents because the document they
21 located, and I quote, "is marked as a draft
22 copy." They decided they will withhold this

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1 document in its entirety because it's a draft
2 document, and I quote, "By their very nature
3 are typically predecisional and deliberative."

4 Therefore, the Department of
5 Energy has determined that this document can
6 be withheld under FOIA Exemption No. 5. I ask
7 you, is that fair? NIOSH reviewed it and
8 incorporated this document in their methods.
9 DOE did not cite any kind of national security
10 interest in withholding this document but, as
11 a result, the Rocky Flats claimants are denied
12 access to this report. Again, I ask you, is
13 this fair? Is this claimant-friendly?

14 I also checked with [identifying
15 information redacted], the SEC petitioner, for
16 National Bureau of Standards and I have
17 permission to speak on her behalf. A travesty
18 happened with that petition.

19 In order to understand the
20 workings of the government agencies, she
21 FOIA'ed from NIOSH in February again all
22 emails related to her SEC petition. So far

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1 all she has received is an acknowledgment of
2 the FOIA request. This FOIA request is now
3 over 100 days old which is a little bit past
4 the 20-day time limit required by law.

5 In conclusion, I respectfully ask
6 that the Rocky Flats Work Group immediately
7 schedule its first meeting to resolve the
8 outstanding Site Profile issues and other
9 issues related to the FOIA email.

10 An update on SC&A's report to the
11 Work Group, or do the Worker Outreach Work
12 Group, on its audit of NIOSH's response to
13 public comment. That the document titled
14 "Thorium Use at Rocky Flats" be released
15 either directly to me to circulate or posted
16 to DCAS' website.

17 That all draft White Papers
18 developed by DCAS, ORAU, or SC&A be posted to
19 DCAS' website immediately after review for
20 national security and privacy issues.

21 DOL, NIOSH, and DOE must abide by
22 the spirit and the letter of the FOIA

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1 legislation, especially with President Obama's
2 Executive Order. The agencies must release
3 documents within the time frame designated by
4 law and in the format requested.

5 The delay in releasing the
6 requested documents, the agency's unreasonable
7 request for clarification, or the misuse of
8 FOIA exemptions goes against the concept that
9 the U.S. Government bureaucracy operates with
10 openness and worthy of examination by the
11 public.

12 I also want to add that I am very
13 happy to hear that stage one of the 10-year
14 review has been completed and I look forward
15 to learning more about how the recommendations
16 are going to be implemented.

17 Again, I thank you for the
18 opportunity to bring these concerns to your
19 attention. Thank you.

20 CHAIRMAN MELIUS: Thank you,
21 Terrie. Mark Griffon will be here tomorrow.
22 He was delayed by weather. A number of people

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1 had difficulty getting out here. I will talk
2 to him and we will work together to try to get
3 that Rocky Flats group going again to address
4 some of these issues.

5 There were some other issues we
6 were waiting on. That group is not waiting
7 for the Worker Outreach. That, as you say, is
8 separate and so forth. We were discussing
9 today and believe that the Worker Outreach
10 group will meet again shortly to take up and
11 follow up on their work including their work
12 involving Rocky Flats.

13 Greg Lewis is here and hopefully
14 can at least make a note and follow up. You
15 don't need to say anything unless you have
16 information but we'll be able to follow up on
17 that issue on the FOIA request. It may just
18 be a matter of communications.

19 If it ended up as a draft
20 document, I don't know -- I can see where that
21 would get turned down. That's sort of
22 standard policy for Freedom of Information but

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1 maybe that can be resolved in some way.

2 I may have missed it but the
3 National Bureau of Standards, that was a
4 request to NIOSH?

5 MS. BARRIE: Yes. Ms. Virginia
6 Bond requested emails to NIOSH -- from NIOSH.

7 CHAIRMAN MELIUS: Okay. We'll ask
8 Stu Hinnefeld or someone from NIOSH to follow
9 up and at least find out that that didn't get
10 somehow misplaced or whatever. It is long
11 enough and they should have gotten the
12 communication on that.

13 I will say that we are working and
14 continuing to work to get the White Papers and
15 other documents available. I think we're
16 making progress. It may not be complete yet
17 but that is something that we're working on to
18 make them both sort of accessible not only for
19 the public but also for other Board Members.
20 That's been an issue we've raised before.

21 Ted.

22 MR. KATZ: I can just give an

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1 update on that while we're on that topic. So
2 we are making progress, Terrie. What we're
3 doing now is trying to start with getting up
4 everything that has already been PA cleared.
5 There is more than PA clearance. There is
6 also what's called 508 compliance.

7 Anyway, it's making documents
8 compliant for people that are visually
9 impaired. It actually takes a lot of
10 resources to do this so we are dealing with
11 the ones that are already ready to be put up
12 first. We will eventually get through
13 everything.

14 I could just tell you if inundated
15 Office of General Counsel and the other
16 parties who have to do this work with all the
17 White Papers that would have to be cleared, it
18 just couldn't happen very quickly. We are
19 trying to do this sort of stepwise fashion.

20 MS. BARRIE: I appreciate that.

21 CHAIRMAN MELIUS: Terrie, I will
22 get back to you personally on the Rocky Flats

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1 Work Group issue after the meeting, after I've
2 talked to Mark.

3 MS. BARRIE: Okay. Thank you so
4 much.

5 CHAIRMAN MELIUS: Thank you.

6 Is there anybody else on the phone
7 that would like to make public comments?

8 MS. VLIEGER: This is Faye Vlieger
9 from Washington. I had let Dr. Melius know
10 that I wanted to make comments.

11 CHAIRMAN MELIUS: Okay. Go ahead.

12 MS. VLIEGER: Over the past few
13 months I've been communicating with Dr. Melius
14 concerning the unusual fines during the
15 mediation process at the Hanford site.

16 My initial request was whether or
17 not the Board was being kept apprized of these
18 unusual fines of contamination and different
19 radionuclides in places they hadn't discovered
20 them, if the Board was being kept aware --
21 made aware that the old contamination being
22 found was now exposing new people to things

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1 that were unexpected.

2 To my surprise the Board was not
3 being kept apprized by DOE of these fines.
4 Fortunately, at the end of March SC&A did come
5 and discuss with a number of former workers
6 the discovery that was found in Building 324.

7 I am happy that happened.

8 I am concerned that the Hanford
9 SEC that is being petitioned and considered
10 right now is not receiving the information
11 about this contamination that is unexpectedly
12 found, and the surprises that they are finding
13 during remediation not only under buildings
14 but at the old landfill and that where that
15 contamination came from is not being advised
16 to the Board.

17 What I would really like to see,
18 because the Hanford meeting is coming up here
19 in August, is to ensure that all of the
20 surveys and the information from the
21 remediation project is being made available to
22 the Board in as much of a real-time basis as

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1 possible because it will affect the outcome of
2 the SEC consideration.

3 CHAIRMAN MELIUS: Okay. Thank
4 you. We'll follow up on that. It's a little
5 hard to guarantee that we keep absolutely
6 current on all information. We will hear
7 tomorrow about the evaluation of the most
8 recent petition.

9 We will be having, as I've told
10 you, a Work Group meeting for the Hanford Work
11 Group between now and August so we'll be able
12 to report on that by the August meeting.

13 MS. VLIEGER: In the meantime dose
14 reconstructions that are being done for
15 Hanford workers, is any consideration being
16 given to the fines in Building 324 and the 300
17 area in general or is that all on hold until
18 after the SC&A report is turned in?

19 CHAIRMAN MELIUS: The Board
20 currently is focusing on the SEC petitions
21 which really cover, I think, mostly an earlier
22 time period. I can't tell you off the top of

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1 my head. Stu Hinnefeld is at the microphone
2 and will try to address it.

3 MR. HINNEFELD: Stu Hinnefeld from
4 DCAS, from NIOSH. I know that we have heard
5 about the unexpected findings during
6 remediation work at Hanford.

7 Our most knowledgeable Hanford
8 person isn't here tonight and I'm not able to
9 ask him exactly. I know he keeps pretty up to
10 date with what's being learned out there and
11 we'll do this.

12 As to the specific question
13 whether dose reconstructions today have taken
14 it into account, I would say that is probably
15 not likely because we are going to have to
16 have some sort of understanding about
17 historically how does this discovery today
18 affect things historically and what can we
19 know about that.

20 What can we know about what that
21 says about our interpretation of the
22 historical doses compared to what we already

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1 knew. I'm not 100 percent sure that I can
2 give a satisfactory answer on that today.
3 It's unlikely that dose reconstructions being
4 done today have overtly taken that into
5 account.

6 It's also not inconceivable that
7 dose reconstructions being done today just
8 because of the data available from that time
9 period have taken it into account.

10 If it's an external exposure
11 situation, for instance, the film badges
12 theoretically would read the external exposure
13 even though there's material found under this
14 building that no one thought was there.

15 Internal exposure would be a
16 little different question. It's a fairly
17 difficult question to answer and it will be a
18 difficult question to answer, not something we
19 can do very quickly but it will be something
20 that we will have to investigate as we learn
21 more about it.

22 CHAIRMAN MELIUS: This is Dr.

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1 Melius again. We'll be able to report back to
2 you more on that, both from the Work Group
3 meeting and the time we're at Hanford in
4 August.

5 MS. VLIEGER: Do you have a report
6 that is going to be generated from the
7 interviews that were done here in March? Is
8 there a time frame for when that report is
9 going to be done?

10 DR. MAKHIJANI: Arjun Makhijani
11 from SC&A. Two things. As you know, we've
12 done the interviews. The interviews have been
13 reviewed for classification. They have gone
14 to the interviewees back so they can approve
15 and correct the interview record.

16 So far as the SEC review is
17 concerned, we are examining the implications
18 of the 324 building findings for the period up
19 to 1990 but we're not examining any
20 implications for the period for which there is
21 no SEC to my knowledge. There is no SEC that
22 SC&A is reviewing.

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1 I don't know that we will have all
2 the interviews for you by the August meeting
3 because there is an elaborate process of
4 hearing back from the workers and I have no
5 guarantee as to when they are going to get
6 back.

7 I know a few have gotten back but
8 not all have gotten back to us. We will have
9 a summary and our conclusions for the SEC
10 process in the report that we are preparing.
11 In fact, you know, I'm going through that
12 during this meeting and shortly after this
13 meeting.

14 MS. VLIEGER: I've been asking for
15 a list of the references that are being called
16 from DOE concerning this find in the ground
17 under Building 324. At one point I was told
18 by another advocate that there was a report
19 generated by DOE when they knew that that
20 floor drain had ruptured and that they
21 cemented it over and that there was a DOE
22 report that was generated.

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1 I have not been able to find that
2 report. I know you can't tell me if it's a
3 national security report but have you queried
4 DOE about some sort of report that they did?
5 I was told it was 20 years ago that they knew
6 that floor drain had ruptured and they just
7 cemented it over.

8 CHAIRMAN MELIUS: I think we will
9 have to follow up on that. Sam Glover is not
10 here and I think he'd be most knowledgeable
11 about that, at least to the people who are
12 directly involved at this point in time. We
13 will follow up on it. We understand the
14 concern. Thank you.

15 Is there anybody else on the line
16 that wishes to make public comments? Okay.
17 If not, then we'll close our public comment
18 period and we'll see everybody tomorrow
19 morning at 8:15.

20 (Whereupon, the above-entitled
21 matter went off the record at 6:25 p.m.)

22

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