

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

convenes the

TWENTY-EIGHTH MEETING

ADVISORY BOARD ON
RADIATION AND WORKER HEALTH

DAY ONE

The verbatim transcript of the Meeting of the
Advisory Board on Radiation and Worker Health held
at the Adam's Mark, St. Louis, Missouri, on February
7, 2005.

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February 7, 2005

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TRANSCRIPT LEGEND

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Mr. Shelby Hallmark, DOL

Dr. James Neton, NIOSH

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P R O C E E D I N G S

(1:05 p.m.)

WELCOME AND OPENING COMMENTS

DR. ZIEMER: Good afternoon, everyone. I'd like to call to order the 28th meeting of the Advisory Board on Radiation and Worker Health. I'm Paul Ziemer, Chairman of the Board. The record will show that all of the Board members are here this afternoon, with the exception of Dr. Andrade, who is ill and could not make it; Dr. Anderson will be joining us later this afternoon by telephone hookup, who -- he's in Anchorage, Alaska today.

For those who were not here at the morning session of the subcommittee, I'd like to remind you of several things. First of all, the sessions this week are being videotaped by Louise McKeel, who's with Village Image, and so if you wonder what the taping is, I -- well, it seems to have disappeared, but -- maybe she got all the footage she needed, but I was going to mention that I was expecting the taping to continue throughout the sessions, and maybe it will.

We would request that if you have phones or

1 beepers that you turn them off while you're in
2 the room here. We've had experience in the
3 past where those have interfered with the
4 proceedings and with the sound system.

5 Please register your attendance with us today,
6 if you've not already done that. The
7 registration book is at the entryway on the
8 tables there.

9 Also there are a number of handouts at the back
10 of the room, including today's agenda, as well
11 as a number of related items that you can avail
12 yourself of as you see fit.

13 Our Designated Federal Official today is Dr.
14 Lew Wade, and Lew, I'd like you also to have
15 the opportunity to make a few remarks at this
16 point.

17 **DR. WADE:** Thank you, Mr. Chairman. I'd like
18 to welcome you all and thank you on behalf of
19 Secretary Leavitt*. While he's only been on
20 the job several weeks, I know that he's aware
21 of this Board and its deliberations and his
22 need to interact with this Board. And also on
23 behalf of John Howard, Director of NIOSH, but I
24 don't have to do much of that 'cause John
25 Howard is here and in the front row.

1 **DR. ZIEMER:** Welcome, John.

2 **DR. WADE:** Again, I think it's terribly
3 important that the Director be here to hear the
4 deliberations of this Board.
5 Let me explain to you why I'm in the chair.
6 Larry Elliott has done a noble job of filling
7 this role, but it's become ever more apparent
8 that Larry needs to -- to sit in his chair as
9 the OCAS director and interact with this Board
10 on many important issues, and that would limit
11 his ability to serve the role of the Designated
12 Federal Official. So -- so I assumed that role
13 so we can avoid either a real or an apparent
14 conflict of interest that might exist between
15 Larry in his role -- former role of DFO of this
16 Board and his role as the director of OCAS. So
17 I have the honor of -- of filling his position.
18 Just a couple of general comments. I think it
19 is terribly important that -- that not only
20 does the Board deliberate and pass motions, but
21 that the Board also creates a very full record
22 of its deliberations. I would encourage all
23 Board members to be sure that their thoughts
24 are included in this record. As we get into
25 the business of SEC petition evaluation, I

1 think it is terribly important that that record
2 be as rich as it can be. NIOSH is striving
3 very hard to have a process that is transparent
4 and inclusive of information and position and -
5 - and let me start with the Board and ask you
6 to see that that record is made as complete as
7 possible.

8 That's all, Paul. Thank you.

9 **DR. ZIEMER:** Thank you very much, Lew. And in
10 that regard, let me add a couple of comments,
11 both as a reminder to the Board, as well as for
12 information for the members of the public who
13 may be here today, and that has to do with the
14 voting procedures for the Board.

15 There are actually 12 voting Board members,
16 including the Chair, which means that we
17 actually do not have a mechanism for breaking
18 tie votes. There are 12 voting members if all
19 are here and present, and we do hope when we do
20 votes this week that we will have both Henry
21 and Tony available by phone. Our procedures to
22 allow us to have others -- other Board members
23 vote in that manner if the hookup can be made.
24 But in any event, for particular motions to
25 move forward where a majority is required, a

1 tie vote in essence results in the failure of
2 the Board to reach consensus. I simply point
3 that out and remind you of that.

4 Also I do want to point out that normally under
5 Robert's Rules the Chair does not vote except
6 in cases of a tie. However, this Board made it
7 known early on in its own procedures that it
8 wished to have the Chair vote in any event, so
9 that in situations such as may be coming up
10 where we have particular issues to vote on, the
11 Chair's vote will be recorded, as well.

12 Lew, do you have anything to add on the voting
13 to make sure that we have covered that
14 appropriately?

15 **DR. WADE:** I think even with 12 and with the
16 Chair voting, there is a mechanism to pass a
17 motion and then to defeat a motion, and a six-
18 six vote would defeat a motion.

19 I would again repeat that it's not just the
20 motion and its resolution, but also the record
21 that's created that's terribly important.

22 **DR. ZIEMER:** Right. Thank you very much.

23 **NIOSH PROGRAM STATUS REPORT**

24 We're going to proceed then with the agenda as
25 you have it before you. The first item this

1 afternoon is the program status report from
2 NIOSH, and Heidi Deep is going to bring that to
3 us today. Heidi, welcome back.

4 And Board members, you do have in -- in your
5 second tab, have copies of Heidi's
6 presentation. And they are on the table, as
7 well, for others who are here.

8 **MS. DEEP:** Thank you, Dr. Ziemer. Good
9 afternoon. As Dr. Ziemer mentioned, my name is
10 Heidi Deep and I'll be presenting the program
11 status report for -- for NIOSH. The purpose of
12 this presentation is to present to you the
13 progress that we have made, both long-term and
14 short-term.

15 This slide illustrates submittals versus
16 production as of January 31st, 2005. The blue
17 line represents the cases that we have received
18 from the Department of Labor. As you can tell,
19 there's been a downward trend. We've been
20 averaging between 200 and 300 cases per month,
21 short-term. In January 2005 this number
22 dropped below the 200 mark.

23 The green line represents the draft dose
24 reconstruction reports we sent to the
25 claimants. This is an upward trend, and it

1 speaks for our production. And we've been
2 averaging about 500 dose reconstruction drafts
3 sent to claimants per month.
4 The red line illustrates the final dose
5 reconstruction reports we sent to the
6 Department of Labor. This again is an upward
7 trend, and since we last met in December this
8 number has increased. I will go in more detail
9 about these figures in the following slides.
10 Since the inception of the program we've
11 received a total of 17,912 cases from the
12 Department of Labor as of January 31st, 2005.
13 This chart breaks down the cases received by
14 district office. The trend has not changed,
15 for Jacksonville takes the lead at 36.7
16 percent, Seattle at 31 percent, Cleveland 21
17 percent and Denver at 11.3 percent.
18 These next few slides -- this is where I break
19 down the numbers in the submittals versus
20 production. This is the cases we've received
21 from the Department of Labor by quarter as of
22 January 31st, 2005, a quarter being every three
23 months, quarter one equaling October, November
24 and December. There's a downward trend here
25 where we've maintained an average of 700 --

1 between 700 and 800 cases per quarter, equaling
2 about 250 cases per month. You notice for
3 quarter two for 2005 this only includes the
4 month of January where we've only received 190
5 cases.

6 This chart illustrates the draft dose
7 reconstruction reports we've sent to the
8 claimants by month as of January 31st, 2005.
9 This follows an upward trend, where you can see
10 in the past seven months we've been maintaining
11 an average of 500 Dose reconstruction reports -
12 - drafts to claimants. This means that we are
13 out-pacing the number of cases coming in and
14 we're reducing a backlog.

15 This chart illustrates final dose
16 reconstruction reports sent to Labor as of
17 January 31st, 2005, again illustrating an
18 upward trend. In January 2005 we reported a
19 record month of sending out 529 cases to Labor.
20 Although we did drop in December, this may be
21 related to a number of factors as these figures
22 are claimant-dependent, meaning that once we --
23 we have to -- in order for a final report to be
24 sent out, we have to have the signed OCAS-1s,
25 complete the closeout interviews for the dose

1 reconstruction final reports to be sent.

2 It's also important to point out that we have
3 almost doubled the number of dose
4 reconstruction reports we've sent in less than
5 a year.

6 In terms of Department of Energy response to
7 requests for exposure records, we've requested
8 17,827 exposure monitoring records for
9 claimants, and then 17,332 we've received
10 responses from Energy. In terms of age of
11 outstanding requests, for 60 days or more
12 there's 56; 90 days or more, 27; 120 days or
13 more, 22; and 150 days, 57. It's important to
14 mention that we maintain interaction between
15 the Department of Energy monthly and keep up to
16 speed on these outstanding requests.

17 This slide illustrates telephone interview
18 statistics as of January 31st, 2005 where one -
19 - cases for which at least one interview has
20 been completed, 17,540. This is just one
21 interview, where you can have -- it's important
22 to point out that there can be multiple
23 claimants on a case. And then the interview
24 summary reports sent to claimants, this number
25 is higher because it includes multiple --

1 multiple claimants on a case. It's 23,956,
2 with only 475 interviews left to be conducted
3 for claimants, but this number can also include
4 -- could have less cases because of multiple
5 claimants per case.

6 The number of interviews conducted as of
7 January 31st, since October of '04 we've
8 conducted between 300 -- 300 to 400 interviews
9 monthly, but this number is decreasing as you -
10 - as the number of cases coming in are
11 decreasing.

12 Dose reconstruction statistics as of January
13 31st. The cases in pre-DR assignment, 9,498 --
14 pre-DR assignment meaning that we're depending
15 -- waiting for information from Energy,
16 employment records, CATIs to be completed and
17 site profile documents. Cases assigned for
18 dose reconstruction, 1,102.

19 These last two bullets it's important -- I'm
20 going to point out a statistic -- when -- for
21 NIOSH, we have completed 41 percent of these
22 cases, so of the 17,912, that's 40 percent --
23 40 percent of overall cases we've completed.
24 So with that in mind, draft DR reports sent to
25 claimants is 662. The final DR reports

1 completed, 6,650, which also includes the
2 administratively closed cases.

3 Cases completed by NIOSH tracking number. We
4 expect the first 5,000 to hold a larger number
5 of cases because of -- they've been in -- in
6 our logs longer, but we do -- we have
7 emphasized completing the first 5,000 cases
8 because they've been in-house the longest. We
9 have a special team working on these first
10 5,000 on a case-by-case basis. It's also
11 important to mention that the first 5,000 cases
12 is dependent on coworker data, which is
13 something that you already know. It's been
14 mentioned in the previous Advisory Board
15 meetings. And the first 5,000, we're almost
16 halfway through in terms of completing these
17 cases.

18 Administratively closed, which I mentioned
19 previously -- the reasons why a case would be
20 administratively closed, if we have not
21 received a signed OCAS-1 within the allotted
22 time period with the 60 days that the DR is
23 sent out and then we allow another 14 days --
24 contact the claimant again, send out another
25 OCAS-1 for them to send, and then we will

1 administratively close the case if we haven't
2 heard back from them. But it's not as cut and
3 dry as that. We try to make as many efforts as
4 we can to get in touch with the claimants to
5 make sure that they are understanding the
6 process. But this totals 65. If you add those
7 figures together it totals 65 cases that have
8 been administratively closed. This -- this --
9 there has been an increase from eight to 20
10 from December '04 to January of 2005, and there
11 -- this is -- this figure is claimant-
12 dependent, so it all depends on what we get
13 back from the claimants, their OCAS-1 signed.
14 And also it's relative to the number of draft
15 dose reconstruction reports that we -- we send
16 out, which the number is increasing.
17 Reworks which we get back from the Department
18 of Labor to make changes whenever a claimant
19 provides new employment information or changes
20 in cancer information, they come back to us for
21 us to reprocess the dose reconstruction, which
22 -- we've received 525 and returned 307, meaning
23 if you track the two figures, 525 minus 307,
24 that's 218 that we have in-house as of January
25 31st.

1 Phone calls and e-mails, number of phone calls
2 OCAS has received, 36,323, and these are from
3 claimants, authorized reps. ORAU has larger
4 figures because they handle the CATIs, the
5 closeout interviews and any SEC phone calls
6 that have been recently processed, and it's
7 139,347.

8 And e-mails, 5,784, but important to mention
9 here that a claimant could contact us by e-mail
10 and they may not provide all the information
11 for us to provide status for them, but we'd
12 definitely get in touch with them.

13 SEC petition status as of January 31st, 2005,
14 we've received a total of 17 SEC petitions, 11
15 of which are active. Five of the 11 are
16 qualified for evaluation, representing two
17 sites, Mallinckrodt and Iowa Ordnance Plant.
18 And six are -- six are closed. This
19 information is published on our public web
20 site, and it does illustrate the six closed
21 petitions and the sites.

22 And of active petitions, they represent the
23 following sites you'll see listed down in the
24 last five bullets which -- which sites it
25 represents and the number of petitions. For

1 the Iowa Ordnance Plants the five have been
2 merged into -- or four have been merged into
3 one and one has been received in January.
4 Our accomplishments. In January we sent out
5 over 17,000 activity reports to our claimants
6 and authorized representatives, and we've -- we
7 have met the goal of exceeding final dose
8 reconstructions at 6,000, and we have -- we'll
9 be submitting three SEC evaluation reports to
10 the Board representing Iowa and Mallinckrodt.
11 We've hired a statistician part-time, and in
12 terms of the progress of site profile
13 documents, we've approved since December 2004
14 eight Technical Basis Documents and four
15 Technical Information Bulletins.
16 This concludes the -- my program status report,
17 and I'll be open for questions.

18 **DR. ZIEMER:** Thank you, Heidi. Let's open the
19 floor for questions. Who wants to go first? I
20 can't actually see everybody, but I'm looking
21 across there 'cause I know that Jim usually has
22 his tent turned up there quickly and -- go
23 ahead, Jim.

24 **DR. MELIUS:** That was a signaling system.

25 **DR. ZIEMER:** Yes.

1 **DR. MELIUS:** The numbers aren't great, but I
2 noticed in your report on the DOE response to
3 requests for exposure records that there
4 appears to be some increase in those,
5 particularly those over 90 days or more,
6 compared to the last meeting.

7 **MS. DEEP:** For over 90 days, 27?

8 **DR. MELIUS:** It was 27 last -- well, if you
9 total all the ones from this meeting, it's over
10 100 over 90 days or more and at the last
11 meeting we were about 60 or 70. I'm just
12 trying to understand what -- that's just normal
13 correspondence delays over the holidays or is
14 that a -- a problem occurring with one or two
15 sites?

16 **MS. DEEP:** Well, Hanford and X-10 kind of
17 represents a hold-up for a lot of these -- the
18 requests that are outstanding. But in terms of
19 how long they -- why they've been delayed, we --
20 -- like I said, we -- we keep a dialogue between
21 DOE. Stu?

22 **MR. HINNEFELD:** I just wanted to offer that
23 we're not -- we don't have any particular
24 systematic problem with anybody. I think it's
25 just normal fluctuation.

1 **DR. MELIUS:** Yeah, thanks. My other question
2 is -- again, I've asked it before, and that is
3 the cases completed by NIOSH tracking number,
4 and you've made some progress in the first
5 5,000. Looks like you've taken off about 400
6 to 500, something like that. By the way, thank
7 you for giving us these graphs in bigger fonts.
8 I can read the current ones. I can't -- sure I
9 can quite make out the last ones, so looks like
10 you've made some progress there, but it also
11 looks like that progress is pretty much across
12 the board. So if you look at the cases, the --
13 the 15,000 and the 16,000 cases, there's also
14 been a lot of progress there, so --

15 **MS. DEEP:** Yes.

16 **DR. MELIUS:** -- again, could you fill me in a
17 little bit more on the first 5,000 and what's
18 happening with them? You mentioned today
19 something about coworker issues. Last time we
20 heard about construction worker issues. I'm
21 just -- I mean it's --

22 **MS. DEEP:** Well, the first 5,000 we're -- we're
23 -- we have a special team put together to
24 emphasize working on the first 5,000, but we
25 definitely are working on the overall -- all

1 the cases, but we're looking at cases, the
2 first 5,000, to reduce the backlog and also
3 because they've been in-house the longest.
4 Something that was mentioned at the Advisory
5 Board meeting in December is that coworker data
6 is holding up a lot of the processing of the
7 dose reconstruction reports for the claimants
8 within the first 5,000 range --

9 **DR. MELIUS:** Could you --

10 **MS. DEEP:** -- and because of coworker data that
11 we're waiting on.

12 **DR. MELIUS:** Could someone elaborate on why
13 we're waiting for coworker data?

14 **DR. NETON:** Yeah, this is Jim Neton. The first
15 5,000 cases have gone -- have been gone through
16 and we've accom-- we've completed the ones that
17 were the ones that fit the efficiency process
18 as being overestimates or underestimates or
19 whatever. It turns out that a number of those
20 that are in the first 5,000 are going to depend
21 upon the completion of the coworker data
22 evaluation. That is, we have no monitoring
23 information for those workers and we need to
24 substitute some surrogate exposure values. And
25 ORAU is working towards that end, it has just

1 not progressed along as quickly as we had
2 hoped.

3 **DR. MELIUS:** When you say work -- ORAU is
4 working on that, how are they working -- how is
5 that being produced? How do we -- what
6 evidence of that do we -- I'm -- I'm not
7 looking -- I mean is there a special report, is
8 it a modification to the site profiles?

9 **DR. NETON:** Actually they'll appear primarily
10 as these Technical Information Bulletins --

11 **DR. MELIUS:** Okay.

12 **DR. NETON:** -- that'll go out and they'll
13 describe a -- a fairly well prescriptive
14 approach as to how you deal with it for each
15 site. Now whether those will get rolled up
16 into site profiles eventually remains to be
17 seen, but they will originally appear as
18 special reports. They will appear on our web
19 site.

20 **DR. ZIEMER:** Judson, were you --

21 **DR. MELIUS:** (Off microphone) (unintelligible)
22 or somebody else?

23 **DR. ZIEMER:** Judson Kenoyer.

24 **MR. KENOYER:** Let me -- let me add to that.

25 I'm Judson Kenoyer from the ORAU team. Two of

1 the four Technical Information Bulletins that
2 Heidi referred to are directly affiliated with
3 the coworker data. They set the -- they set
4 the baseline on how we're going to do it for
5 external dosimetry and internal dosimetry. It
6 establishes the process. So within the next
7 two or three months, you will -- you will see
8 the results of -- of some of that coworker data
9 study. We're looking at -- we're working on Y-
10 12 data, X-10, K-25, Paducah and Hanford right
11 now, so you'll see some results fairly soon.

12 **DR. MELIUS:** And is that the same effort as
13 involving construction workers that Jim Neton's
14 talked about --

15 **MR. KENOYER:** No, that's -- that's actually a
16 separate coworker study looking at the -- first
17 of all, the data from Savannah River, and I'm
18 helping lead a subtask group on that, so that's
19 -- that's actually a site effort.

20 **DR. MELIUS:** Okay.

21 **DR. ZIEMER:** Larry Elliott?

22 **MR. ELLIOTT:** I'd just like to add to Jim
23 Neton's comments. Another way we're attacking
24 the first 5,000 is we're -- we're giving a very
25 concerted, focused effort to identifying cases

1 in those -- that first 5,000 where we don't
2 think we can do dose reconstruction, where we
3 haven't found any information to support the
4 dose reconstructions, so we're -- we're looking
5 at that, as well.

6 **DR. MELIUS:** And when is that -- I believe last
7 time you referred to that work going on and
8 some sort of report being due soon or something
9 -- maybe I'm -- my recollection isn't that --

10 **MR. ELLIOTT:** Yes, in Livermore we mentioned
11 this and we talked about ORAU providing us a
12 report on the first -- their first screening of
13 that 5,000. We have that report and we're
14 working with ORAU to refine it, and in the
15 course of the next six months they're to
16 provide an additional report beyond that, so --
17 but we have the draft. We're working with them
18 to refine the first report now.

19 **DR. ZIEMER:** Thank you.

20 **DR. MELIUS:** Could I request that -- I think
21 it'd be appropriate that we would -- the Board
22 could get a presentation on actually all three
23 of those, at the appropriate time. One would
24 be this effort involving the coworker data.
25 It's clearly something we're going to be

1 dealing with in the next couple of days with
2 the SEC evaluation, so I think it would be
3 useful to have a briefing there.

4 Secondly, on the effort with construction
5 workers -- again, I'm not quite sure on the
6 timing on that, if that's as soon.

7 And third, on the approach being used and the
8 results of this effort to screen for those
9 where dose reconstructions can't be done.

10 **DR. ZIEMER:** You've heard the request, and
11 Board members, is there general agreement that
12 you'd like that information?

13 It appears to be. Thank you.

14 **MR. ELLIOTT:** We'll certainly bring forward a
15 report to you on the coworkers data issue and
16 how we're approaching that. We'll bring a
17 report to you on the attempt and efforts we
18 have underway to identify cases where we can't
19 do dose reconstruction that would constitute an
20 SEC. We're not at the point ready to bring you
21 anything on construction workers. The request
22 for a proposal, which is the way the government
23 goes about soliciting a contract to do this
24 work, I think is going to be signed this week
25 or next week, and that will put folks on task

1 to get this job done, so --

2 **DR. ZIEMER:** Could there be, however, a report
3 simply describing what the process will be, or
4 what -- I'm trying to understand --

5 **MR. ELLIOTT:** Well, the process for
6 construction workers is the same as the site
7 profile development process. They're talking
8 to workers. They're -- they're drafting a -- a
9 chapter, if you will, or a Technical Basis
10 Bulletin that speaks to construction trades
11 experience on the particular site or sites in
12 question. Our first two sites are Savannah
13 River and Hanford, and certainly when we
14 develop that a little more we can bring that
15 before the -- before the Board.

16 **DR. ZIEMER:** Thank you.

17 **DR. MELIUS:** Okay. Is --

18 **DR. ZIEMER:** Follow-up?

19 **DR. MELIUS:** One final thing along with that,
20 it would be at least helpful to me, maybe to
21 other members of the Board, when you're -- when
22 we're doing some of these -- next round of
23 presentations on some of these issues is to
24 have some sort of estimate on -- of the --
25 those that are left from the first 5,000 or

1 some number, how they fit into different
2 categories -- a third of them are X.

3 **MR. ELLIOTT:** Okay.

4 **DR. MELIUS:** To the extent that you can do
5 that, that's -- do that. I'm not looking for
6 something, you know, 346 or something, but you
7 know, a percentage so we have some idea of what
8 --

9 **DR. ZIEMER:** What the distribution is on those?

10 **DR. MELIUS:** Distribution is, yeah.

11 **DR. ZIEMER:** That seems reasonable. Thank you.
12 Other questions for Heidi or for the staff?
13 Anyone have a question before Jim goes to round
14 two here? Okay, Jim, I guess you've got the
15 floor again.

16 **DR. MELIUS:** Yeah, I guess -- this is actually
17 a question from last time, also. Can you
18 update me on the status of ORAU's -- I don't
19 know if it's a renewal, new contract, whatever,
20 where that is and the amounts of money
21 involved?

22 **MS. DEEP:** I don't have that information.

23 **DR. MELIUS:** Somebody have the information?

24 **DR. ZIEMER:** The question is the status of the
25 ORAU contract.

1 **DR. MELIUS:** I believe at the last meeting we
2 were told it was being --

3 **MS. DEEP:** A cost performance?

4 **DR. MELIUS:** -- and was being renewed and
5 additional monies were being put into it and --

6 **MR. ELLIOTT:** The contract is --

7 **DR. MELIUS:** -- being negotiated at that time,
8 so you weren't --

9 **MR. ELLIOTT:** The contract is a five-year
10 awarded contract. The -- what we talked about
11 last time was, at the point we're at right now
12 where we're involved with ORAU in negotiating
13 the next -- it's -- every six months there is a
14 cost performance award fee. It's an
15 incentivized, negotiated award fee. In other
16 words, we place criteria about their
17 performance in front of them and in order to
18 achieve any award money they have to meet
19 certain levels of that criteria. That's the
20 incentive aspect of it. So that -- that is --
21 that's under constant -- almost constant
22 negotiation for the future six months.
23 We have -- we're about mid-year or mid-way
24 through the five-year contract. We are -- we
25 put money into the contract just -- in January,

1 and I'm not -- I don't have the figures with
2 me. I don't know if Stu has them or -- Stu
3 doesn't have them, either. We'll have to bring
4 those to you at the next meeting or we'll get
5 it before, but I don't have those final figures
6 at this time.

7 We -- the next -- this -- this modification on
8 funding for the contract will take us through
9 the next 18 months, and that will leave the
10 final 18 months of the contract then will have
11 what is called another contract mod where we
12 look at the work remaining and we negotiate
13 with ORAU on what the cost will be to complete
14 that work and complete the final year of the
15 contract.

16 **DR. MELIUS:** I would appreciate if you could
17 provide that to us prior to the next meeting.

18 **DR. ZIEMER:** Okay. Other comments or
19 questions? Yes, Roy DeHart.

20 **DR. DEHART:** With regard to the administrative
21 closed records, do those represent the cases in
22 which an award has been made or a determination
23 of no reward has been made?

24 **MS. DEEP:** The reasons why we consider a case
25 to be administratively closed is if we haven't

1 received -- can you hear me? -- if we haven't
2 received an OCAS-1, a signed OCAS-1 back from
3 the claimants and they have -- how that works,
4 they receive an OCAS-1 form in the mail
5 whenever we send out the draft dose
6 reconstruction reports. They read through the
7 draft dose reconstruction, they get the OCAS-1,
8 they sign it, they have 60 days from the time
9 that is mailed out to the time -- from that
10 time point for them to get it back to us. If
11 we haven't received the OCAS-1 within the 60
12 days, we send out another OCAS-1 with a letter
13 explaining to them they have an additional 14
14 days to send it back. Of the 65
15 administratively closed reports that we have
16 in-house, only one of them has been -- tended
17 to be compensable where we've actually reached
18 out to the claimant, who didn't understand the
19 process, which was a survivor, and -- but of
20 the 65, they tend to be non-compensable and
21 they're single claimants -- cases.

22 **DR. DEHART:** Do you have any estimate of how
23 many have been sent out total, even though you
24 haven't received responses from those?

25 **MS. DEEP:** How many have been sent out to the

1 claimants?

2 **DR. DEHART:** Of the OCAS form for signature.

3 **MS. DEEP:** The OCAS-1 -- those -- that's
4 included -- well, that -- you can assume that
5 in the draft dose reconstruction reports that
6 are sent to the claimants on a monthly basis.
7 That's in --

8 **DR. DEHART:** Yes, okay.

9 **MS. DEEP:** -- on the previous slides, up
10 towards the beginning.

11 **DR. ZIEMER:** So this would be 60-whatever out
12 of 6,000 or something?

13 **MS. DEEP:** For January there was 504 that were
14 sent out, draft dose reconstruction reports
15 sent to claimants, so with an OCAS-1.

16 **DR. DEHART:** That was what I was --

17 **MS. DEEP:** So we're averaging about 500 a
18 month.

19 **DR. DEHART:** Okay.

20 **DR. ZIEMER:** Okay. Other questions?

21 **MR. ELLIOTT:** Let me help Heidi out here for
22 Dr. DeHart. Each time a draft dose
23 reconstruction is sent to a claimant, an OCAS-1
24 goes along. We have sent over 7,000 of those.
25 If you count the ones we've sent to DOL and the

1 ones right now that we have in hands of
2 claimants, that number's larger than 7,000.
3 This 60 represents the population we have not
4 heard back from. Does that help? Does that
5 answer your question?

6 **DR. DEHART:** Yes, and I would suggest that that
7 be titled that way.

8 **DR. ZIEMER:** Richard, did you have a comment?

9 **MR. ESPINOSA:** Yeah, under the response to
10 request, I'd like to see a breakdown by site.
11 And the reason for that is I just want to see
12 if there's any problem sites out there on the
13 90 days and above.

14 **MS. DEEP:** Certainly. Responses? Is there any
15 particular -- 60 days or more -- are you
16 talking about outstanding requests?

17 **MR. ESPINOSA:** Yes.

18 **DR. ZIEMER:** Rich is really asking are there
19 particular sites that are represented there.

20 **MS. DEEP:** Actually there's two sites that
21 stand out. For over 60 days or more, Hanford
22 has 22, with Oak Ridge, the X-10 facility,
23 having 18. These two facilities tend to hold
24 the largest figures of all the other facilities
25 within 60 day, 90 days, 120 days, 150 days or

1 more, for each one of those categories.

2 **DR. ZIEMER:** All the way through.

3 **MS. DEEP:** Yes.

4 **DR. ZIEMER:** Yes.

5 **MS. DEEP:** Aside from -- yeah, Hanford and X-10
6 tend to be -- hold a large number, except Oak
7 Ridge, X-10, doesn't have any requests over 150
8 days. They tend to be more in the 60 days and
9 90-day category. They have 18 and ten,
10 respectively.

11 **DR. ZIEMER:** Thank you. Others? Okay, thank
12 you very much, Heidi.

13 **MS. DEEP:** Thank you very much.

14 **DOL PROGRAM STATUS REPORT**

15 **DR. ZIEMER:** Shelby Hallmark is with us again
16 today. Shelby, welcome back. He's going to
17 report on the Department of Labor program
18 status.

19 **MR. HALLMARK:** Okay, am I on? Oh, good. It's
20 my pleasure to be back to speak with the Board
21 and with the audience here today. I'll try to
22 move quickly through the slides -- if I can
23 figure out how to do the machine -- 'cause I
24 think you've seen these slides several times
25 before and I'll try to hit the high spots,

1 maybe have some time for questions.

2 Okay. All of these slides for the first 12 or

3 so are Part B slides, and then at the end I'll

4 have a couple of shots with respect to the new

5 Part E program, just to talk a little bit about

6 how we're getting that started.

7 With regard to the claims received and the

8 breakout by types of conditions here, these

9 data are -- should be familiar with you from

10 previous presentations. I would -- I would

11 note that the percent of claims involving

12 cancer is growing, as we would expect that

13 would be the case, and that the other non-

14 covered conditions we believe is a declining

15 group. When we have fully established our Part

16 E program and have our regulations in place, we

17 expect that group to go away because that is

18 really sort of an artifice (sic) of the

19 separation between the old Part D program and

20 the new -- and that -- and the current B.

21 People who filed what were really Part D claims

22 with us got into this category of non-covered

23 conditions and got a denial from us. In the

24 new world we'll treat all claims as Energy

25 claims, EEOICPA claims. We'll find which side

1 the person belongs on and this group will
2 disappear. And it will save us a lot of
3 unnecessary paperwork and denials flowing
4 around the system that really don't make a
5 whole lot of sense. So hopefully that's one
6 positive impact of the consolidation of the
7 Part E program with -- with Part B.
8 Case status -- here now again, as I've
9 explained many times before, case versus claim,
10 case relates to an individual worker; claim can
11 be multiple if there are multiple survivors.
12 That's why the numbers here are lower, 44,000
13 versus 60-plus. The point made by this slide
14 is basically that we are -- DOL's process
15 remains current. We have a working backlog of
16 cases being handled at the district offices for
17 recommended decisions and at our final
18 adjudicatory branch making our final decisions
19 -- 95 percent, in fact, of all receipts have
20 been resolved at the district office level,
21 either by a recommended decision or referral to
22 NIOSH, and 89 percent have gotten a final
23 decision or referral to NIOSH.
24 Have I gotten to the next slide here? Yes,
25 there we are. Okay, this tells you a little

1 bit about the outcomes. As has been reported
2 before, we're approving roughly 40 percent of
3 the claims at final decision. But if you take
4 out those -- those non-covered conditions which
5 are the old Part D claims by accident in our --
6 in our program, then the approval rate rises to
7 56 percent. That's -- that's been a continual
8 circumstance in the program.

9 With respect to cases -- to the responses that
10 claimants have made to our recommended
11 decisions in the district offices, this is the
12 total outcomes since the inception of the
13 program through January 13th, what's
14 interesting to note here is that roughly ten
15 percent of the cases involve some sort of
16 request for further review or a hearing.
17 That's, we think, an indication that the
18 program is being administered fairly well in
19 our district offices.

20 NIOSH referrals, obviously the NIOSH cohort is
21 what the Board is particularly concerned with
22 and so we'll get into a little more detail
23 here. And I'm sure you'll note that our
24 numbers and NIOSH's are never going to be
25 precisely the same and, you know, if that --

1 that -- that's a resolution I don't think will
2 ever come in my lifetime. I think what I would
3 note about this is that -- one of the things I
4 would like to note is that when a NIOSH dose
5 reconstruction is completed and returned to
6 DOL, our goal is to do a recommended decision
7 on that case within 21 days, and that goal has
8 been -- was met during fiscal year 2004. In
9 the first quarter of 2005, which ended just a
10 few weeks ago, we dropped off -- we fell -- 25
11 days, it rose to 25 days. I would ascribe that
12 in part to the increased production that you
13 just heard from Heidi with respect to NIOSH
14 cases coming to us so it was a little more work
15 for us to do. And also in part to our having
16 diverted some of our staff to get Part E up and
17 running as quickly as we could. So there has
18 been some drop-off there. We don't intend for
19 that to stay the case. We're going to get back
20 down under 21 days for the rest of fiscal 2005.
21 Correct, Pete? Am I right on that? Good, I'm
22 glad to hear that.

23 And it's also note-- worth noting from this
24 slide that about 24 percent of the final
25 decisions on dose reconstructed cases have been

1 approved to date. The approval rate at the
2 recommended decision level is about 20 percent.
3 NIOSH case remands, now in our -- my
4 presentation last time in Livermore we talked a
5 little bit about what we can tell the Board in
6 terms of the outcomes of cases that have been
7 reconstructed through the NIOSH process and
8 where we're having to send them back when we --
9 from a hearing or a review of the record. And
10 that's -- this number here is the number that
11 we have gleaned -- that we're able to get our
12 hands on. I think there were actually 20 or 30
13 more remands to NIOSH that were -- that the
14 case file could not be located at the moment
15 that we did this survey, but I think this is
16 close. About 300 have been remanded from our
17 final adjudication board.
18 And we'll talk a little bit about how that's
19 broken out, and I know it -- as I say, it's of
20 interest to you. One thing you'll hear me say
21 is that I can't break it out the way we would
22 like and I think you would like, which is which
23 are errors by NIOSH and which are new evidence
24 presented in our process. Very, very difficult
25 to do and we'll continue to try to peel that

1 onion, but I'll give you what I can.

2 You see here where these remands came from,
3 about half from claimants objecting to our
4 recommended decision and to the NIOSH data that
5 supports the recommended decision, and about --
6 the other -- the 140 in the non-contested
7 cases, that's where our final adjudication
8 board is looking at the decision -- recommended
9 decision from the district office on their own
10 motion, in effect. And if they find a problem,
11 would go ahead and proceed with it, even though
12 the claimant has not raised it.

13 All right, now why were these remands done out
14 of these 300 remand. We've broken it into
15 three categories here, which are -- I think
16 primarily are drawn from the fact -- the way
17 our adjudication process works and our
18 regulatory structure works. A little bit
19 difficult for me to explain -- or for me to
20 understand, frankly -- the difference between
21 application and methodology. Basically,
22 methodology is a -- would be a remand where the
23 individual is -- is asserting that the NIOSH
24 methodology is not appropriate. And the reason
25 why it's separated out from application of the

1 methodology, which is what that application
2 shorthand means here, is that the application
3 might be something where we would argue that we
4 need to send it back and we would actually, at
5 DOL, possibly look behind the dose
6 reconstruction report that we received from
7 NIOSH.

8 With respect to methodology, if a claimant is
9 arguing I don't think that the use of a
10 comparat-- or coworker group is appropriate,
11 we're not going to question NIOSH's use of that
12 methodology because that's been established in
13 their regulations. However, if the claimant is
14 asserting you used the wrong coworker cohort,
15 that would be an application issue and we would
16 eventually make a decision about that, one way
17 or the other. But in this case, these are all
18 cases that would have been referred back to
19 NIOSH for comment about those kinds of issues.
20 And factual of course is the biggest one, and
21 we'll talk a little bit more about what that
22 category means. These are the -- this is a
23 breakout of the types of factual issues. As
24 you can see, the biggest one is that one --
25 that more cancer, a different cancer has

1 arisen, an additional cancer has arisen,
2 possibly between the time that the dose
3 reconstruction report was completed and our
4 final decision. Employment issue's another
5 large one. The claimant may assert that there
6 was an employment period not covered in the
7 dose reconstruction, or not adequately
8 explained by the report itself.

9 Type of cancer issues, one reason or another we
10 believe the wrong cancer has been applied in
11 the report; district office IREP issue, that
12 probab-- DO, that's what DO means, district
13 office -- that could very well be an error on
14 the part of our staff in applying the IREP, and
15 I think it also could include some NIOSH
16 issues. And frankly, I think that would be
17 just one or two cases. Date of diagnosis, just
18 possibly the onset date is -- is changed. And
19 in three percent of the cases we got an OCAS-1
20 that was not signed. This is the category that
21 Heidi was discussing just now in terms of the
22 administratively closed. We can't act on a
23 case that hasn't been signed so it would be go
24 -- it would go back to NIOSH.

25 It's important to note that of these remands,

1 the overwhelming majority do not -- have not --
2 at least of the ones that have been re-decided,
3 have not changed the outcome. Only four have
4 resulted in an acceptance out of the roughly
5 140 or so that have been re-decided. Most --
6 the 167's the largest number, is still pending
7 re-decision, but for the most part the -- the -
8 - I would describe this to a punctiliousness on
9 the part of our -- our final adjudication folks
10 to make sure that every T and I are -- are
11 crossed and dotted, respectively. And many
12 times that will result in NIOSH coming back,
13 explaining in further detail what the basis for
14 their report was, and the outcome remains the
15 same. In any case, we will continue to do that
16 and obviously that's important to the process
17 that we -- that we -- we do in fact flush out
18 all these issues.

19 Now I've gotten behind on my cheat sheets here.
20 Excuse me a moment while I shuffle papers.
21 Somebody turn the lights up 'cause I can't even
22 read my big writing here.

23 Okay. This gives you just the basic data with
24 respect to our payments at this point and that
25 -- obviously we're over the \$1 billion mark

1 with respect to compensation and medical
2 benefits. And the NIOSH claims, we've actually
3 made 1,400 or so claim-- payments on cases that
4 have been through the NIOSH process, which --
5 again, I would say suggests that while it has
6 been slower than all of us would like to
7 evolve, the NIOSH dose reconstruction process
8 is in fact now working and has delivered
9 benefit outcomes to quite a number of people.
10 Obviously we still -- we all want to see it
11 accelerate.

12 I'll turn now to Part E very quickly. As you
13 know I think, the Congress amended the EEOICPA
14 in October to abolish the old Part D program
15 that had been administered by Department of
16 Energy and created new -- okay, so somebody had
17 tried to abolish me here, I think -- abolished
18 Part D and created a new Part E for us to --
19 which DOL would administer. We are in the
20 process of beginning that administration. Part
21 of what we're doing as an effort to address the
22 key problem we face, which is that there were
23 25,000 cases in the process waiting for us when
24 it transferred from DOE, was to get up and
25 running as quickly as possible. So we -- the

1 bullet here with respect to interim procedures
2 refers to the fact that we have -- especially
3 with the good work of our Solicitor's Office --
4 divined ways that we could start making
5 payments before we even put regulations in
6 place for the program, so we have what we call
7 -- it's actually a preliminary procedure that
8 we're using to make payments. We have done
9 that with respect to a number of cases, which
10 I'll show you in a minute. We've had some
11 check ceremonies to get the word out that this
12 is in fact occurring and we've had our first
13 town hall meeting.

14 Here are the stats on this program -- 23,000
15 cases have already been transferred from DOE.
16 And by the way, they're doing a very effective
17 job of coordinating with us on this transfer.
18 About 1,900 cases are still in the Part D
19 physician panel process. The statute that
20 abolished Part D said that it could continue on
21 until the -- for the cases that were still in
22 the panel process, and that's what's left of
23 them now. And they will continue to spin out
24 decisions which we can use under Part E.
25 We've made 159 recommended decisions and 97

1 final decisions, or we had as of last week
2 sometime. We're only doing approvals under
3 these preliminary procedures because we don't
4 yet have in place the regs that would
5 adjudicate disputes. But as you can see, we
6 already have a respectable start and we expect
7 hundreds more cases to be processed under this
8 approach before we get our regs out, which --
9 about which I'll say a few things.

10 The regulations are currently in process right
11 now. These will be interim final rules. They
12 will be published -- we are certainly hopeful,
13 as this would -- by the statutory target of
14 late May, or earlier, if we can accomplish
15 that.

16 We have a task force that Pete Turcic and his
17 team in the Energy Division have pulled
18 together -- primarily again pulled from within
19 our Part B ranks -- who are working to
20 establish all the pieces that are necessary to
21 create a brand new program like this, and I
22 think they're doing an excellent job.

23 There will be a series of town hall meetings,
24 and I'll talk about that in a moment.

25 Part B claimants. There's one -- one

1 significant revision to Part D in the October
2 2004 amendments, has to do with the issue of
3 residual contamination at AWE -- Atomic Weapons
4 Employer sites and expanding the employment
5 eligibility window with respect to those sites.
6 We are working on that in conjunction with our
7 development of the Part E regulations and
8 procedures, and what this bullet suggests is
9 that there are a small cohort of folks, roughly
10 200 -- little over 200 -- who were denied under
11 Part B -- the existing statute -- pre-existing
12 statute -- because their employment began after
13 the DOE contract period, but during a period
14 that NIOSH has found that there was residual --
15 significant residual contamination at that
16 site. Those individuals are going to be
17 receiving notification from us within the next
18 few weeks that they are in that cohort and that
19 if they wish we will reopen the claim at their
20 request, to be considered under the newly-
21 revised eligibility criteria. So that's moving
22 ahead, as well, and we expect that to work out
23 for us.

24 Last slide here, and I'll then open the door
25 for questions, is just a quick look at the --

1 at our plans for town hall meetings around the
2 country to -- primarily to explain how Part E
3 is going to work, what people who are in that
4 program should expect from us. The first --
5 this is on the left side of the screen here are
6 -- and the top of the right are sites we're
7 going to be getting to in the next -- I'd say
8 month and a half or two, at the most. The
9 other locations to be announced would be -- are
10 probably going to be the next phase after our
11 final -- interim -- final regulations are
12 issued so that we can explain in greater
13 detail, and that -- some of those other
14 locations will be returning to the larger sites
15 so that we can explain how the full program
16 will be implemented when it is in fact public.
17 So that's -- that's basically where we are with
18 respect to Part E and Part B, and I'll be glad
19 to take questions.

20 **DR. ZIEMER:** Thank you, Shelby. First Robert
21 Presley -- oh, okay, Rich, you're first? Then
22 we'll just go right around, Robert --

23 **MR. ESPINOSA:** Well, I just --

24 **DR. ZIEMER:** -- Roy, Jim.

25 **MR. ESPINOSA:** Just wondering how you're going

1 to notify the sites of the -- of the town hall
2 meeting.

3 **MR. HALLMARK:** How will we notify them?

4 **MR. ESPINOSA:** Yeah.

5 **MR. HALLMARK:** We --

6 **MR. ESPINOSA:** Are you going to publish it in
7 the paper or...

8 **MR. HALLMARK:** Right, we will -- our process on
9 that will include a news release --
10 (unintelligible) who would be contacting
11 Congressional delegations and local folks who
12 are important to the program in each site, and
13 typically we'll do that a couple of weeks
14 before the event so that we have enough notice
15 and information flowing out to the public at
16 the site so that we can ensure that people are
17 aware of it and that they are well attended.

18 **MR. PRESLEY:** Shelby, could I ask you when --
19 when you have these public meetings, please let
20 the Board members know. It was -- you had your
21 first one in Oak Ridge, and I read about it in
22 the newspaper and got asked about it, so it
23 sure kind of made it look bad on me that I
24 wasn't even there.

25 **MR. HALLMARK:** I'll take that under advisement.

1 We definitely want to do that. I think the
2 first site -- we were anxious to get that --
3 that meeting done quickly and we weren't as
4 well-organized as -- as we might have been. So
5 we certainly want to make sure that you're
6 aware of these items, we get it -- the
7 information to you so that you can participate
8 if you'd like when we come to your
9 neighborhood.

10 **DR. ZIEMER:** Thank you. Roy?

11 **DR. DEHART:** Workers who have developed cancer
12 and are qualified under Part B I understand are
13 also now qualified under Part E, thus it would
14 appear to be only an administrative process to
15 take care of their Part E claim. Are they
16 being notified of that process of how to go
17 ahead and file under Part E?

18 **MR. HALLMARK:** That'll be -- those kinds of
19 issues will be part of what we talk about at
20 the town hall meeting, but with respect to a
21 large number of them, they've already filed
22 their claims under the old Part D, and those
23 claims will be automatically deemed to be
24 claims under Part E, so they don't need to do
25 anything, individuals in that category. And

1 then we'll be in touch -- I think -- we've
2 already sent out a letter to all our -- all of
3 the old Part D claimants, the 25,000 that I
4 showed in the slide earlier, indicating that
5 we've taken over the program, that their claim
6 will now be transferred automatically,
7 requiring no further action on their part. And
8 since roughly -- I'd say about 90 percent of
9 the 25,000 who are in the DOE backlog are also
10 Part D claimants, so a big number that you're
11 thinking about are in the queue.
12 There's another subset of people who've filed
13 under Part B and for one reason or another
14 never filed under Part E. They will need to
15 come forward to us and -- if -- if they want to
16 proceed with the additional eligibility, and
17 we'll be discussing how that can be done, as
18 well.
19 Right now we're -- we continue to receive
20 claims and will take them at our resource
21 centers in the major sites, using the old forms
22 that DOE was using, until we get new forms in
23 place through regulations -- but we intend to
24 do that.
25 Now let me just quickly say, it's not an

1 entirely administrative process. Because while
2 approval under Part B is deemed to be automatic
3 approval under Part E with respect to causation
4 of the illness, you then need -- the
5 individual, if it's a living worker, that
6 individual would need to show their eligibility
7 against the criteria for compensation under E.
8 And for a living worker, that would be some
9 kind of an impairment rating that translates
10 into a -- an amount of -- a percentage which
11 links to \$2,500 per percent payment and/or wage
12 loss compensation based on years when their
13 total salaries were less than a -- the
14 thresholds, so that has to be done.
15 And with regard to survivors, many of the Part
16 B recipients are survivors. First -- and this
17 is very important for everybody to understand -
18 - they must be survivors within the definition
19 of Part E, which is the traditional Workers
20 Comp survivor, the narrower definition, which
21 includes spouses and dependent children at the
22 time of death.
23 The second test is the survivor must show that
24 the death of the worker was caused or
25 contributed to by the condition which was

1 approved under Part B. We expect that in the
2 large majority of cases that will -- that will
3 be relatively straightforward, and the number -
4 - the number of cases that we're handling now
5 are all survivor cases, the ones we're paying
6 under our pre-reg approach are survivor cases
7 where there's a death certificate that links up
8 very closely, either to a Part B condition
9 that's already been approved or to a condition
10 that Department of Energy's physician panels
11 had already approved in terms of its causation.
12 All we need to do is that separate step of
13 showing -- showing that the death was related,
14 and that's -- that's how we're able to proceed
15 on those.

16 **DR. MELIUS:** You answer-- actually answered
17 most of my questions, but one left is, as a
18 sort of a corollary to that, though, people
19 that are not -- the people who don't meet the
20 probability of causation test for Part B could
21 still be eligible under Part E, also. And will
22 that be taken care of in your regs and so
23 forth?

24 **MR. HALLMARK:** People who do not meet the Part
25 B --

1 **DR. MELIUS:** They'll be eligible under Part B,
2 but they will be -- they did not have
3 sufficient probability of causation to have
4 their claim accepted.

5 **MR. HALLMARK:** That's something we'll have to
6 address in our regulations, also.

7 **DR. ZIEMER:** Let's see, I think Rich, you were
8 next and then Leon.

9 **MR. ESPINOSA:** On slide nine you have a little
10 mention there of employment issues. What --
11 what type of issues is that? I mean -- it's 30
12 percent. It's a high number.

13 **MR. HALLMARK:** On the reason for the remand?

14 **MR. ESPINOSA:** Yeah.

15 **MR. HALLMARK:** The employment issues -- that
16 would include, for example, a claimant who
17 comes to our -- to a hearing or presents to the
18 -- to our adjudicatory group evidence that
19 there was a period of employment which was not
20 directly addressed in the dose reconstruction
21 report. Now that could be that information
22 about that period of employment was newly-
23 discovered in the interim -- and this goes back
24 to my point about trying to separate out errors
25 in the NIOSH process from new evidence. The

1 employment period could be something new that
2 was -- that's educed because a survivor found
3 some information from a neighbor or relative
4 that wasn't available when NIOSH did their
5 interviews. Or it could be something that
6 NIOSH missed. It was there in the file and it
7 just didn't get addressed. Or it could be
8 something that's actually addressed in the dose
9 reconstruction report, but not clearly. We
10 wouldn't have remanded it if the -- if our
11 adjudicatory person could go -- could go back
12 and look at the dose reconstruction report and
13 say no, Claimant, you've raised a question
14 about the period 1962 through '65 as a pipe
15 fitter and here's where -- here's where the
16 report shows that that employment was
17 addressed. But it's possible that when our
18 claims staff looks at it, they can't find that
19 reference. We send it back to NIOSH. NIOSH
20 comes back to us and says yes, that was
21 incorporated but we didn't -- we weren't clear
22 enough. Here's another paragraph that explains
23 how that period of employment was in fact
24 addressed in the estimation process. So that -
25 - those -- it's a whole range of possible

1 issues. And again, we would -- we're not
2 giving up on getting closer to the evaluation
3 of how many of these are -- are just errors
4 from the NIOSH perspective versus things that
5 fall out of the adjudicatory process. We're
6 going to continue to work on that.

7 It's interesting to note that in our -- of 60-
8 some-odd hundred dose reconstructions that have
9 come back to us, we only have a little over 300
10 which have been remanded to NIOSH, period, from
11 the adjudication process. And that's about
12 what, less than five, six, seven percent? It's
13 a small number. It's -- and then obviously
14 many of those are not errors, they are new
15 evidence. So that -- I don't know what that
16 seems to suggest. That would seem to suggest
17 there is a relatively quality process going on,
18 but it's obviously something that requires us
19 to continue to look at it and look deeper.

20 **MR. ESPINOSA:** Thank you.

21 **DR. ZIEMER:** Leon?

22 **MR. OWENS:** Shelby, under the final decisions
23 claims slide, my question's in regard to the
24 non-covered employees. Is that a function of
25 DOE not being able to verify employment, or is

1 it another reason?

2 **MR. HALLMARK:** Not -- you mean the reason of
3 not a covered employee, the reason for denial?

4 **MR. OWENS:** Right, for the employees that are
5 not covered.

6 **MR. HALLMARK:** No, they would -- they would --
7 typically the reason they're -- that category
8 would be individuals where, in one fashion or
9 another, we have chased down and -- and reached
10 a finding with respect to their employment, but
11 we have determined that it was -- that they
12 were not an employee of the site. For example,
13 they worked for a construction firm but we
14 don't place the construction firm at the site.
15 And those -- there aren't -- there weren't many
16 in that category who fall out altogether. The
17 other -- the other employment issue would be
18 individuals who came to work at the site or for
19 a contractor or subcontractor, but after the
20 period of time that was the DOE contract at an
21 AWE. Again, some of those are the ones that I
22 was speaking of who will be newly affected by
23 the residual radiation amendment that opens the
24 window for them in some sites. That's a small
25 number, also.

1 **MR. OWENS:** Yes, sir. That was my question,
2 particularly in regard to -- to the Paducah
3 site. What we have found were there are a lot
4 of the older workers who did work for various
5 subcontractors building specific buildings, and
6 some of those individuals have received letters
7 -- have received letters stating that DOE has
8 been unable to verify their employment. So
9 right now we're in the process of -- those that
10 are still surviving, of getting affidavits to
11 support that position. So I do -- I do feel
12 that there might be some subcontractors that
13 performed work, not necessarily in the entire
14 facility, but on specific projects that might
15 have missed -- been missed.

16 **MR. HALLMARK:** Well, that -- we have a
17 exhaustive procedure to go as deep as we can on
18 those kinds of cases. Just the fact that an
19 individual receives a report from DOE saying we
20 can't place the person doesn't stop us. We go
21 to affidavits, we go to corporate sponsors,
22 corporate entities in some cases, and we go to
23 Social Security Administration and obtain wage
24 records that we then try to put together with
25 affidavits to -- to make a nexus with respect

1 to the particular work.

2 Now it's not to say that there aren't -- there
3 aren't going to be cases where all of that
4 fails and we can't -- you know, and there's
5 just not proof the individual actually worked
6 there. But certainly we push all the envelopes
7 that we can to come to closure on that issue.

8 **DR. ZIEMER:** Mark?

9 **MR. GRIFFON:** Yeah, looking on that same slide
10 actually, final decisions, there's a category,
11 insufficient medical evidence --

12 **MR. HALLMARK:** Uh-huh.

13 **MR. GRIFFON:** -- 3,270 denied. Does that -- I
14 wonder if there's any breakdown within that
15 topic. Is it -- is it the case where a person
16 couldn't provide any medical information, or
17 were there access issues that they couldn't get
18 very old medical records, or --

19 **MR. HALLMARK:** I would imagine -- typically
20 that's a question where the individual's
21 asserting that they have beryllium disease,
22 usually with a pre-'93 diagnosis, and we find
23 that the condition was not -- cannot be
24 identified as beryllium disease. They assert
25 cancer and we find it's a pre-- you know,

1 precancerous leukemia -- the sort of borderline
2 issues where the individuals --

3 **MR. GRIFFON:** So most -- most of those, though,
4 the evidence doesn't support the condition that
5 was --

6 **MR. HALLMARK:** Correct.

7 **MR. GRIFFON:** Okay.

8 **MR. HALLMARK:** In other words, that's as
9 opposed to the non-covered condition group
10 where we would deny because the individual
11 presents with asbestosis and that's just not --
12 that's just not covered. These are people who
13 are making a claim of one of the covered Part B
14 conditions, but we've found they -- that they
15 can't -- they can't prove the claim in that --
16 on the medical basis.

17 **MR. GRIFFON:** And then the -- the last bullet
18 on that slide talks about POC less than 50 and
19 cancers not related. What are cancers not
20 related, as defined here?

21 **MR. HALLMARK:** Help me out with this, Pete,
22 cancers not related. I --

23 **DR. ZIEMER:** Pete Turcic.

24 **MR. TURCIC:** That's the CLL.

25 **MR. HALLMARK:** Okay, you have the one --

1 there's one cancer that's -- that's identified
2 in our structure as not being radiogenic, and
3 so in -- technically speaking, it doesn't come
4 under the POC process because of that treatment
5 in the NIOSH reg.

6 **DR. ZIEMER:** Okay. You have a follow-up, Mark,
7 or --

8 **MR. GRIFFON:** No, I thought that was the case.
9 I just wanted a clarification on that.

10 **DR. ZIEMER:** Other --

11 **MR. GRIFFON:** Thank you.

12 **DR. ZIEMER:** -- questions or comments for
13 Shelby?

14 **MR. HALLMARK:** We will attempt our best to make
15 sure that the Board is -- is apprised as these
16 town hall meetings are done, and I -- I'm not
17 sure what the best way of our doing that is,
18 but we'll work with -- with Lew and others --

19 **DR. ZIEMER:** Work with Lew and make sure that,
20 as a minimum, perhaps an e-mail notice that
21 there'll be something in a particular Board
22 member's locality that gives them the
23 opportunity to at least be there and observe
24 and participate.

25 **MR. HALLMARK:** Right.

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

2 **MR. HALLMARK:** I do -- I do apologize that we
3 dropped the ball in Oak Ridge and we certainly
4 don't want to do that again.

5 **DR. WADE:** Thank you, Shelby.

6 **DR. ZIEMER:** Thank you.

7 **GENERAL PUBLIC COMMENT**

8 We're a little bit ahead of schedule, and the
9 Chair's been asked to consider allowing some of
10 the public commenters who might not be able to
11 be here later in the day to avail themselves of
12 this opportunity to address the assembly, and
13 I'm going to allow that. We do need to keep on
14 schedule because we have a sort of a time-
15 certain session at 3:00 o'clock. We will take
16 a break at 2:45, but we have some time now that
17 we can allow some of the members of the public
18 who will not be able to be here later to
19 address the group.

20 I have the list of those who have signed up,
21 but I don't know which ones are the ones who
22 are not able to be there -- be here later, so I
23 simply ask them to self-identify and we'd be
24 pleased to have those speak at this time. They
25 can use the mike here in the center and if any

1 of those are present, if you'll simply approach
2 the mike and identify yourself, and then the
3 Board and the assembly can hear from you.

4 **UNIDENTIFIED:** (Off microphone) Most of those
5 people have already left --

6 **DR. ZIEMER:** I'm sorry?

7 **UNIDENTIFIED:** (Off microphone) Okay, they came
8 back.

9 **DR. ZIEMER:** Yes, identify yourself, please,
10 for the record.

11 **UNIDENTIFIED:** Good afternoon, gentlemen.
12 I thank the privilege to get up here and say a
13 few words. We're just about ready to leave. I
14 worked at the Weldon Spring plant. I was the
15 second person hired out there. I worked in
16 every building but three. It's a process that
17 went all the way through the plant and I was a
18 chemical operator. I have cancer, several
19 different kinds of cancer. Some of the people
20 that I work with, especially the ones that came
21 from downtown plant, from the foremans (sic),
22 they all passed away. I hate to say this, but
23 a gentleman named Jim Mitulski, he was a
24 foreman, Leo Pyres, several more. All these
25 people worked on the Manhattan Project. They

1 came out to Weldon Springs and very
2 knowledgeable what uranium did and what we did
3 out there, but I hate to say this, but
4 actually, gentlemen, we were used as guinea
5 pigs.

6 The only protection we had was a respirator, a
7 film badge. That's the only protection we had.
8 We urinated in a bottle every 21 days. If you
9 got hot on one job, they put you on another
10 job. I've got all the old -- all the records
11 of mine from Oak Ridge, Tennessee. I went over
12 them with my fellow workers, the ones that's
13 still living, and I can see why some of them
14 did pass away. Their radiation level was very
15 high.

16 I live six miles away from the plant. What
17 gets me, gentlemen, it took \$900,000 to clean
18 up that plant. That's -- it cost more to clean
19 it up than it was built. Believe me, I've got
20 all the information from the newspaper and from
21 Oak Ridge, and when they made all their
22 proceedings and everything, it just --
23 heartbreaking, when I go by there every day and
24 see that plant there, and all the people that
25 passed away. People like Charlie

1 Bradensteiner* was my fellow worker. He passed
2 away a year ago. His wife had to sell her
3 house to pay for her medical bills that Charlie
4 had cancer. She did not receive one penny from
5 the government. People like that really makes
6 me feel really, really bad.

7 This is why I'm down here today or whenever I
8 can come and help other people who worked at --
9 for Mallinckrodt. I know the technology might
10 (unintelligible) been there, but they knew what
11 radiation that we had because they were down
12 here on Manhattan Project all those years, all
13 the foremen. They came from down there, came
14 out there. They used to tell us what went on
15 down in -- down there at the plant down there.
16 But gentlemen, I hope that something comes out
17 of this so some of these other people can get
18 some benefits out of it. Thank you.

19 **DR. WADE:** Excuse me, sir, would you --

20 **UNIDENTIFIED:** Bob, would you like to speak a
21 word?

22 **DR. WADE:** Would you give us your name, sir,
23 please?

24 **MR. ROTH:** Charles L. Roth.

25 **DR. WADE:** Thank you.

1 **MR. ROTH:** Here's a gentleman, Bob Fulkerson.
2 He was about the 15th or 16th went to work out
3 there. He can tell you about the process.

4 **DR. ZIEMER:** Okay. Bob?

5 **MR. FULKERSON:** Bob Fulkerson, F-u-l-k-e-r-s-o-
6 n. I'd just like to say we -- at Mallinckrodt,
7 this is Weldon Springs. We took the raw
8 material, changed it into liquid, then it went
9 to orange, then it went to green and then we
10 made metal out of it and went through the whole
11 process out there. I worked -- I'd like to say
12 something about the furnaces I worked in.
13 We would fire these furnaces -- we'd put
14 magnesium with the green salt and it was like a
15 bomb, and it'd fire -- you'd heat these up to
16 like 1,000 degrees. Well, it was okay as long
17 as everything worked right. But there was a
18 liner in these shells and a lot of times this
19 liner wasn't perfect. And when this went off,
20 it just literally blew up. And a lot of times
21 we had to evacuate the whole buildings for the
22 smoke and the -- and the -- and the dust and
23 then we couldn't go back in sometimes till the
24 fire department would clear it. And this
25 happened once or twice a week. I think we had

1 seven furnaces, and a lot of smoke and a lot of
2 dust. And like Charlie said, the only
3 protective clothing we had was cotton -- white
4 coveralls and cotton gloves. Had a mask that
5 we put on when we felt like we needed it, which
6 didn't do any -- smoke didn't do anything for
7 it. And so that's I wanted to say something
8 about the furnaces there, and there was a lot
9 of dust and in the break rooms, floors were
10 always dusty. We drank coffee in there. It --
11 it was -- it was not too good. And I think
12 that's all I have to say. Thank you.

13 **DR. ZIEMER:** Thank you, Bob. Another gentleman
14 approaching the mike here.

15 **MR. SEMARADI*:** Yes, I'm Andrew Semaradi. I
16 worked at the airport. I don't want to take
17 anything away from these Mallinckrodt people
18 'cause they've been through it all. I worked
19 43 years for a fueling company out there. We
20 used to watch Mallinckrodt trucks come in and
21 dump along that third runway. Most people
22 don't know it's there. In 1995 or '96, my job
23 -- I fueled for 30 years, 31 years, and then I
24 was utility man. And any time they had
25 anything that looked like kerosene or fuel or

1 anything, they'd call me. I had a suction
2 truck used to suck this stuff up. When they
3 started doing that construction on the east
4 terminal, the new east terminal, they had --
5 they held that up for over a year because of
6 the contamination in the ground, didn't know
7 what to do with it. So anyway, somebody came
8 up with an idea, I think they made a -- they
9 called it a glycol recovery system. The glycol
10 and all the water went into that. They never
11 did use it for glycol recovery because it was
12 so full of contamination, they couldn't. They
13 had -- looked like a Esther Williams swimming
14 pool up there that they put the glycol in, and
15 I've got pictures where they had fire hoses
16 going into this pump house down there that was
17 taking it out of these containment pools and it
18 was flooding down towards the airport. And
19 once they opened up our fuel lines, that water
20 all came down towards the terminal. And any of
21 you people ever flew on an airplane, I'll
22 guarantee you and I could show you today --
23 they fired me back in 2001, but I could show
24 you today 'cause people still contact me, that
25 this water -- you know, anybody who's a

1 hydrologist or geologist know that water goes
2 down and oils and things come up. This is
3 still coming out today. A guy called me
4 yesterday and said that water, when it rained,
5 it comes up. And if they set your bag down on
6 that ramp, you're taking this home to your --
7 I've got a oil can that was eaten up in less
8 than a year. And when we went to one of the
9 Mallinckrodt meetings they had a radiation
10 detector there and it set off the needle. And
11 I've got samples. They tell me -- if anybody
12 knows kerosene, it's as clear as water. The
13 people at the airport say well, no, this is
14 fuel. It's in the ground, came through the
15 ground. It's still as black as my thing here
16 is today and I had NIOSH out, I had OSHA.
17 These people all contacting before they come
18 out and there's so much cancer at that airport
19 if -- the Teamster Union, the Machinist Union,
20 I went to them trying to get a list of all the
21 people -- I've probably got 100 people that I
22 know that are dying of cancer. Now it might
23 not be the cancer that you're talking about,
24 but I'll guarantee you that Mallinckrodt dumped
25 out there. And it might not just be

1 Mallinckrodt 'cause I know the National Guard
2 and MacDonald Douglas and all them have. But
3 we'd like to be included in some of this, too,
4 because I've got two -- I had six operations on
5 my arm. It ate my arm up. And I've been
6 fortunate enough in my life, my doctors said,
7 to get away from there and I got a -- I'm still
8 living. There's so many people I know that
9 have died, they die every week. And I've got a
10 report here. I've got -- we forced TWA and the
11 airport to run some tests and I've got
12 radiation -- we can't get radiation reports.
13 They won't tell us.
14 Now there's pesticides, DDT and things that
15 have been banned since in the '70's that is in
16 that ground water, and I've -- and like I say,
17 if I could find one of these people from NIOSH
18 were out there -- and they don't do a thing,
19 DNR doesn't do anything, we're on our own.
20 Nobody will con-- tie any of this together.
21 And I'm fortunate enough I'm in good shape now,
22 but I was ready to die a couple of years ago
23 and -- but we're going to have other people
24 come down here later tonight that their
25 husbands have died and things, and I would like

1 to have the air-- 'cause we're a contractor.
2 We got into this same thing, and I could show
3 you -- and if we ever get a good -- anybody
4 that's really interested, I've got enough
5 people that will show you exactly where all
6 this stuff is. Just like these people from
7 Mallinckrodt, they could probably walk right
8 out there now and show you exactly where this
9 stuff is at. And it hasn't been cleaned up and
10 it's a -- that airport expansion they're doing
11 now, that big hole they dug down there, is just
12 a way to get rid of the contamination at the
13 airport. And once us people are dead, nobody
14 will ever know what they're sitting on top of
15 there. And that's my soap box I guess. Thank
16 you.

17 **DR. ZIEMER:** Okay. Thank you. It's -- Andrew.
18 Yes, thank you, Andrew.

19 Okay. Yes, sir?

20 **MR. LEACH*:** My name is Bob Leach and I put in
21 about 13 years with Mallinckrodt in the uranium
22 division, and I, too, worked at Plant 4 and it
23 was one of the filthiest places I've ever
24 worked in my life. And I also, like the other
25 gentleman said, many a times I was inside those

1 furnaces to clean out where the molten metal
2 had blown out, the uranium metal, and had to
3 clean it up and get it ready for the next
4 firing. And many times that molten metal would
5 come right onto the floor of the area, and of
6 course many of us were exposed to it. They
7 always told us oh, this won't hurt you. It'll
8 be out of your system within the week, and
9 that's all we could find out about them.
10 Now I -- I've got -- I've had prostrate (sic)
11 cancer, which was removed. The cancer has
12 returned. The doctor says I'll have it the
13 rest of my life. I also had two skin cancers,
14 but in my -- what I found out, none of this is
15 covered under this 20-some cancers that they
16 supposedly will cover, and I think it's
17 ridiculous because it's many of us ended up
18 with that type of cancer, but I don't know if
19 we'll ever see anything or not.
20 But I worked anywhere from 40 to 76 hours a
21 week out at Weldon Springs because when they
22 had that plant running seven and eight -- or
23 seven days a week and more, you worked. And I
24 was a supervisor a lot of the time, but I still
25 had to be there all the time. And I put my

1 claim in in January, I believe it was, of 2002.
2 But I just hope that they change how many of
3 those cancers that they're going to cover
4 because, from a selfish viewpoint, I think I'm
5 entitled to it, too.
6 But the one thing I wanted to bring out, I
7 called Cincinnati, which -- to find out how my
8 claim is going. I called them on August the
9 30th, and it had never been assigned to medical
10 at that time, and they said that they just
11 didn't have the information they needed from
12 site profiles. I called back in January, the
13 14th, and the lady there -- and they're always
14 very nice, don't get me wrong. They're very,
15 very nice, but she said Mr. Leach, I might as
16 well tell you that since you worked at Plant 4
17 of the Destrehan and Weldon and the Weldon
18 Springs records will not be finished until last
19 part -- latter part of June, and then they got
20 to go back to them and then if they approve it,
21 then they have to go to the medical and -- for
22 approval there. And I commented, I said what
23 am I figuring on, another year? She said at
24 least another year before we can get to your
25 cases and -- but she said that they're doing

1 all they can, but that's what makes it bad when
2 you worked at two different plants and they
3 have to get the exposure records from both
4 plants.

5 Well, I commented to the lady, and it's -- if
6 it's going to take this long, I'll probably be
7 laying out in Jefferson Barracks Cemetery
8 before they get this going. Thank you.

9 **DR. ZIEMER:** Thank you, Bob, for sharing that
10 with us and -- lady at the mike, yes, please?

11 **UNIDENTIFIED:** Do you have time for one more?

12 **DR. ZIEMER:** You bet.

13 **MS. SHUMACHER-CORDING:** My name is Sharon
14 Shumacher-Cording -- excuse me while I pull
15 this down. Shelby -- I forgot your last name -
16 - I take exception with what you said up there,
17 and I got a little bit of I think we're
18 slightly bashing NIOSH, and maybe that wasn't
19 your intent, but that's what I read. The NIOSH
20 folks have been nothing but super, super great
21 -- to me, anyway. I don't understand a lot of
22 what you said because they're approved over
23 here, they're not approved over here. We do
24 consider medical records. Oh, yeah?
25 Burlington, Iowa -- was that two years ago,

1 gentlemen? One year ago? Yeah, it was a year
2 ago -- we were blatantly, angeredly (sic) told,
3 in no uncertain terms, by government
4 representatives of both Departments, DOL and
5 DOE, that medical records were not, will not,
6 never will be considered in any of these cases.
7 Now somebody at that meeting taped that meeting
8 and I can get that transcript for you. We had
9 a couple of experts from the DOE and DOL there
10 that just wouldn't have any truck with us at
11 all, whereas the NIOSH guys were nothing but
12 kind. They were factual, they were up-front,
13 across the board. So I kind of feel like I was
14 lied to.

15 My hus-- first husband worked at the Iowa Army
16 Ammunition Plant in Burlington, Iowa from
17 October of '66 until the move from AEC was made
18 to Pantex. Material checker. Those guys were
19 all over that facility. Yard L was considered
20 the ship-in/ship-out yard for AEC. I didn't
21 know until I appealed a denied decision claim
22 that at the shipping point of going to Pantex
23 all of the checkers handled the balls of
24 uranium bare-handed, no protection at all.
25 During the course of their employment for AEC,

1 the one gentleman from Mallinckrodt -- urine
2 test, badges -- that was a joke. I will have
3 some more comments for the SEC petition on
4 Wednesday. I personally find it sad that the
5 Iowa Army Ammunition Plant was not even
6 recognized at your inception. From what I've
7 sat here all day and watched and seen and
8 heard, you folks are giving us your very best
9 shot, during the very best you can with what
10 you have to work with. And you are to be
11 admired and applauded for that. Anybody gives
12 you any static, just hit them over the head,
13 because you really are trying. But the folks
14 in Iowa -- and to a lesser degree,
15 Mallinckrodt, because at least Mallinckrodt
16 gets a site review, we don't -- I think. Did I
17 read that right, Mallinckrodt folks, did you
18 get a site review? Okay. Because we weren't
19 known. We were the black hole. We didn't
20 exist. But at some extent all of the 22
21 accepted cancers, the cancer claims have been
22 filed and all of them have been denied.
23 Larry's case is 4895. I'm in my second appeal
24 process.
25 You keep doing what you have to do and work at

1 it hard. I talked to this gentleman here this
2 morning, and I have nothing but respect for you
3 guys. But again, Iowa is being left out of
4 your process, and if there's some way that the
5 Ordnance Plant and Iowa can get added to your
6 list -- because how can you in reality get a
7 true -- true cross-case mix without all of the
8 plants being included. But I think DOL and I
9 need to talk. Thank you very much.

10 **DR. ZIEMER:** Thank you. Your first name,
11 ma'am, was -- was it Sharon?

12 **MS. SHUMACHER-CORDING:** Sharon.

13 **DR. ZIEMER:** Sharon. Thank you.

14 **MR. THORNHILL:** Gentlemen, could I have a
15 couple of minutes? I'm not going to talk long.
16 My name is George Thornhill. I worked at
17 Mallinckrodt at Weldon Springs, and we had a
18 meeting here about -- a few months ago and they
19 called me and I was very excited to go because
20 I thought I was going to get to see a bunch of
21 my old friends. And I was just shocked when I
22 got there what I seen. So many of them had
23 cancer, and I want to thank God I don't have
24 it. I'm one standing right here in front of
25 you that, as far as I know, I don't have any

1 cancer. But I've been pallbearer for every one
2 of my foremen I worked for out there. And I
3 want to let you know, I've seen some very sick
4 people that's suffered a lot.

5 We worked out there in the pilot plant at
6 night. It's like all plants, when all the
7 bosses go home, then you do all the things you
8 wasn't supposed to do in the daytime. I seen
9 us put stuff in these plants that birds flew
10 over at night and them birds would fall flat
11 out of the sky and die -- boom -- because of
12 the nitric acid and stuff that we was dumping.
13 And we was just doing our job. None of us knew
14 we was exposed to anything. We didn't know
15 anything at all was going on. We was making
16 \$2.16 an hour, big money, but that's what we
17 did. And I worked there till the plant closed.
18 But I didn't realize that so many of them was
19 getting cancer and that's what they died from.
20 And thank you for your time.

21 **DR. ZIEMER:** Thank you very much. We have
22 about three minutes, if there is any further
23 comment. We do have another public comment
24 session later this afternoon. Yes, ma'am,
25 please approach the mike.

1 **UNIDENTIFIED:** My dad died of lung cancer --

2 **DR. ZIEMER:** Would you state your name, please,
3 for the record?

4 **MS. IRWIN:** Sue Irwin.

5 **DR. ZIEMER:** Sue Irwin?

6 **MS. IRWIN:** He lived three years after he was
7 diagnosed with lung cancer, and we worked in
8 nuclear plants from 1942 to 1957. And he was a
9 very gifted welder, and because of this he was
10 asked to work on the atomic bomb. And Dad said
11 that it was so secret that not even his bosses
12 knew what they was working on. And one of the
13 sites that Dad worked on was -- he was working
14 by hisself (sic) one night and a pipe broke,
15 and he said he went in -- he went in to fix it,
16 and he was saturated with nuclear waste.
17 He suffered from lung problems all of his life.
18 He always carried Luden's cough drops in his
19 pocket, and then he was diagnosed with lung
20 cancer and he died.

21 But we have all of his medical records. We
22 have information that he worked on six
23 different sites, and I don't know what else it
24 takes to prove that he was exposed to
25 radiation. The last information we got, they

1 were still doing the dose reconstruction. So
2 it's kind of a mystery, you know, why it's
3 taken so long.

4 **DR. ZIEMER:** Thank you for those comments.
5 We're going to recess now for approximately 15
6 minutes. We'll return and be addressing the
7 regular agenda item, and then we will have
8 another public comment session beginning at
9 4:30. So I declare us recessed now till 3:00
10 o'clock.

11 (Whereupon, a recess was taken from 2:45 p.m.
12 to 3:10 p.m.)

13 **SITE PROFILE REVIEW - BETHLEHEM STEEL**

14 **DR. ZIEMER:** Following our Board meeting in
15 December -- or during our Board meeting in
16 December, we had before us on the agenda the
17 site profile from Bethlehem Steel -- or the
18 review of the site profile of Bethlehem Steel.
19 And if you look in your minutes, Board members,
20 on page 31 you'll see how -- you'll be reminded
21 of the Board's action on that. And that was
22 the Board request that NIOSH and SC&A respond
23 to each other's reviews of the report and that
24 the Board requests that NIOSH res-- the NIOSH
25 response address each of the findings and

1 observations, with particular emphasis on the
2 first two comments on page 8 of the report and
3 so on. And in essence, we asked NIOSH and we
4 asked SC&A to work together to resolve some
5 differences that were evident at that meeting.
6 We had Board members present during those
7 times, also, to observe the intertake (sic) and
8 exchange on that.

9 Today we're going to have a report from NIOSH
10 which talks about those issues, and Dr. Neton
11 will identify the issues that have been
12 resolved between NIOSH and SC&A, will identify
13 some issues where they -- there still is
14 perhaps a disagreement or a difference in
15 views, and there are a number of cases where
16 NIOSH is specifically asking the Board to weigh
17 in with its views on particular aspects of
18 this.

19 So with that as an introductory comment, I'll
20 call on Dr. Neton now to present NIOSH comments
21 on the SC&A review of the Bethlehem Steel site
22 profile review.

23 **DR. NETON:** Okay. Thank you, Dr. Ziemer.

24 **DR. ZIEMER:** I'm sorry?

25 **MR. PRESLEY:** Henry.

1 **DR. ZIEMER:** Henry, are you there?

2 **DR. ANDERSON:** (Via telephone) Yes, I'm here.

3 **DR. ZIEMER:** Okay. And Dr. Neton is just
4 getting ready to make the presentation.

5 **DR. NETON:** Thanks again, Dr. Ziemer. It's --

6 **DR. ZIEMER:** Thank you.

7 **DR. NETON:** -- my pleasure to be here in St.

8 Louis this afternoon to talk about the

9 Bethlehem Steel profile review, our comments on
10 it. Dr. Ziemer gave a good part of my

11 introductory remarks, so I think maybe I can
12 speed things up a little bit here.

13 I would like to correct one thing, though. In
14 our interaction with SC&A we did not have
15 members of the Board present with those
16 interactions. I think you may have been
17 thinking about the dose reconstruction report
18 reviews. This was -- essentially we went off
19 and unilaterally worked on our report, but did
20 interchange and receive some feedback verbally
21 from SC&A on -- on their thoughts -- on their
22 written thoughts.

23 And Dr. Ziemer's absolutely right, we've come
24 to some -- some conclusions that are a little
25 different than what I reported to last time.

1 There were -- in the report, to refresh
2 everyone's memory, there were eight findings,
3 seven observations, three procedural
4 conformances identified, and six strengths,
5 which were bulletized items at the back of the
6 report, and I won't be discussing those today,
7 for obvious reasons. But as we discussed
8 earlier in the day, a finding, as defined by
9 SC&A for purposes of this report, is something
10 that represents a significant issue. It's
11 likely, in the end of the day or the long run,
12 to impact dose reconstruction. So this is the
13 most serious nature of a finding or of a
14 comment that they could make.

15 The seven observations were perceived
16 weaknesses or deficiencies that we should go
17 back to the drawing board, look at things, take
18 a deeper, arm's length look at it and see if we
19 really have covered that issue completely as we
20 thought we may have.

21 And there's three procedural conformance
22 issues. These are discrepancies related to our
23 own way of doing business, whether it's the
24 regulation or our own internal procedures, have
25 we really done what we said we were going to do

1 consistently across the board.

2 I'm going to focus mostly on these findings
3 today because these are areas that are more
4 serious in nature -- at least identified by
5 SC&A. They could impact dose reconstruction.

6 I am going to, at the end, summarize our
7 discussion on some of the observations and go
8 over the procedural conformances -- issues.

9 I will say that we've come to agreement on a
10 large part of these findings, but there still
11 remain some issues outstanding. And as Dr.
12 Ziemer identified, we stand in front of the
13 Board and ask their advice and opinion on this.
14 There are a couple of areas, and I'll point out
15 at the appropriate time what those are.

16 Written reports were provided to the Board, I
17 believe last Monday, via e-mail, so the Board
18 should have received them. I also believe that
19 there are copies at the back table for members
20 of the public to review.

21 With that, I'll just get into it, and I could
22 think of no better way than to go over the
23 findings individually, so that's what I'll do,
24 but I will focus primarily on -- I'll focus
25 more effort on the first two findings, which is

1 what's -- which is the direction we received
2 from the Board.

3 The first finding focused on the personnel
4 monitoring data. As was established at the
5 last meeting, we have no internal dosimetry
6 data for workers at Bethlehem Steel. There are
7 no urine samples to go -- to rely on to
8 establish what the exposures may have been
9 between 1949 to '52, so we relied on air sample
10 estimates. SC&A has called into question the
11 appropriateness of those air samples. In a
12 sense, they didn't say that the air samples
13 were inappropriate, it's just that NIOSH didn't
14 do a very good job explaining that they were.
15 And the fact is, we actually -- we agree with
16 that.

17 We will -- as I indicate in the first bullet
18 there, we do -- we do feel that the -- there
19 are AEC documents out there that do support the
20 use of air -- the air monitoring data that we
21 used. If you recall last time, there were no
22 air monitoring data available for the '49 and
23 '50 time period at Bethlehem Steel, and we
24 relied on the Simonds Saw and Steel air sample
25 data, particularly the air samples taken on

1 October 27, 1948. Those we believe to be a
2 situation -- and I think the report, SC&A's
3 report, acknowledges this, if any of those air
4 samples at Simonds were applicable, this time
5 period was. There was no ventilation over the
6 areas of the highest concentration and the
7 radiological controls that were in place were
8 probably about at their -- at their worst at
9 that time. So we have these 40 or so air
10 samples at Simonds Saw and Steel.
11 And then for our report, we had about 114 air
12 samples that we relied on for the Bethlehem
13 Steel, characterization 51 and 52. Since that
14 time, a number of additional samples have come
15 to light, and the total number available to
16 date is somewhere around 200, although there
17 are a number of samples that admittedly is --
18 it's hard to read the data. It's a little bit
19 shaky. But somewhere close to 200 is the
20 number of air samples we have available.
21 Why we say we believe that the AEC documents
22 support the use of air samples is the actual
23 October 27th report itself. It was the
24 intention of the AEC personnel at that time to
25 go and establish what the actual exposures were

1 to the workers in the facility. They went and
2 took air samples that they believed were
3 representative of various work locations, and
4 established what's known in the business as a
5 time-weighted average exposure. That in itself
6 indicates that they had some confidence that
7 the individual samples that were taken were --
8 were representative.

9 In addition to that, we've uncovered some
10 documents that are more modern in time frame --
11 in the 1970's, I believe -- where AEC has
12 outlined their approach. The person who took
13 many of these air samples, and actually took a
14 lot of the air samples at Bethlehem Steel, was
15 a person named Al Breslin*, who many of you may
16 know had been at the Health and Safety
17 Laboratory for a long period of time. Al
18 Breslin is a recognized expert, in my mind, on
19 air sampling. He established these programs.
20 And in the written document that we provided
21 the Board, we've gone through and identified
22 the highlights of what Mr. Breslin's approach
23 was at that time. They go through and discuss
24 what's -- what are known as process samples,
25 general area samples and -- and breathing zone

1 samples.

2 Process samples -- and any of you who look at
3 the air sample data, you'll see a P next to the
4 air samples, that's a process sample that was
5 taken to identify sort of the upper magnitude
6 of the exposure. Even in Mr. Breslin's
7 documentation he indicates that you should not
8 use these samples to do doses or exposures to
9 workers because they in fact -- no one received
10 those exposures, they're high. An example of
11 that would be putting an air sample right at
12 the aperture of a furnace where a worker never
13 really frequented, or right in the process
14 stream of a rolling mill, whereas a worker may
15 have had to have, because of physical
16 constraints, been a foot or two away.
17 We actually used those process samples in our
18 profile. So there are a number of reasons why
19 we believe they're representative, but we do
20 agree that the profile needs to be revised to
21 support this consideration or this conclusion,
22 and we're certainly committed and will be doing
23 that, and we've actually started the process in
24 that way.

25 This just speaks to what the finding itself

1 identified, that there were issues with
2 quality. We had not defined the quality,
3 applicability and reliability, and we're
4 certainly going to do that.

5 And then this connection to ICRP-75 was
6 identified by SC&A. That's our -- a general
7 guidance document for radiation protection of
8 workers. In that general document there's a
9 section on air samples and it does speak to a
10 lot of these type of issues -- what is a
11 quality air sample, how reliable are they, when
12 -- how should they be taken so that you ensure
13 that you've really covered the workers'
14 exposures.

15 One does need to remember, though, that for
16 purposes of the compensation program we are not
17 trying to accurately reconstruct every worker's
18 exposures. We're -- if we don't know and have
19 very little confidence on the accuracy of an
20 individual exposure, we can rely on an upper
21 value exposure where we're confident that no
22 worker, or almost no workers were exposed
23 above. So you have to distinguish between the
24 accuracy of the dose reconstruction and the
25 accuracy of the -- or the accuracy of the dose

1 and then the accuracy of the dose
2 reconstruction.

3 This just goes through some of the rationale as
4 to why we believe their task spe-- well, of the
5 -- they are appropriate for reconstructing
6 doses, and I think I -- I -- this slide I
7 presented last time. I'm not going to go over
8 it in any detail, but you know, these were
9 task-specific evaluations, included
10 measurements at work locations where maximum
11 exposures -- I talked about the process
12 samples.

13 Part of SC&A's report talked about the fact
14 that these were short-term samples, which I
15 believe tended to indicate to them that these
16 were short-term samples and how could that be
17 representative of the workers' exposure. The
18 reason they were short-term samples is because
19 that was the duration of the exposure. There
20 are a number of 40-second samples taken at the
21 rolling mill, at the face of the rolling mill,
22 but that's the length of time it took for an
23 18-inch bar of uranium to actually traverse
24 through the rolling mill and be done.

25 Again, the AEC Medical Division processed these

1 samples. I spoke last time about Dr. Naomi
2 Harley who was responsible for many, if not
3 all, the measurements that were taken at -- at
4 at least Bethlehem Steel and provided a
5 description of the quality control process or
6 the -- the manner in which these were processed
7 at EML.

8 And for the reasons I mentioned above, we
9 believe that they are more representative
10 samplings, as defined by ICRP-75, than what is
11 conventionally known as a general area sample
12 that is just taken there to monitor the
13 workplace to ensure that the controls you put
14 in place are adequate. These are a far cry
15 from that type of sample.

16 This is a simple schematic of the layout of the
17 rolling mill area at Simonds Saw and Steel.
18 This is out of the profile that will be coming
19 out shortly, but I put a little star here at
20 all the locations where these -- there were 40
21 air samples taken I think on this particular
22 day. Two were controls, so there's 38 net
23 samples, and if you count these stars, they
24 won't all add up to 38 because many were taken
25 in triplicate. Most notably there were

1 triplicate samples taken on either side of the
2 rolling mill here, and some over here where the
3 material's being transferred from the furnace
4 to the rolling mill.

5 There's -- there's two -- two stages here. The
6 first pass is called a roughing mill. You take
7 a five-inch bar of uranium, weighs about 200
8 pounds, push it through. You run it through a
9 second time. The idea was to get about a 15
10 percent reduction in diameter each pass, and
11 then two passes through the -- two passes
12 through the finishing mill and they're done.
13 The highest air sample taken on each -- the
14 highest average air sample taken is right here,
15 the first pass through the rolling mill. It
16 comes -- it came out of the furnace heated to
17 about 1,200 degrees Fahrenheit, very oxidized
18 surface because in the early days they were not
19 done in a salt bath. They were done directly
20 in the furnace and pushed right through here.
21 So this is where that 1,000 MAC air sample
22 occurred -- 1,070 I think is the actual value,
23 the highest recorded value at Simonds Saw and
24 Steel.

25 The difference between this process and the one

1 at Bethlehem Steel is Bethlehem Steel is a
2 continuous mill. There are essentially six
3 stations like this connected sequentially so
4 that when one puts the bar in at the first end,
5 it goes right through and comes out already
6 finished. None of this manual feeding through
7 twice happens. It just goes right through the
8 process. And that was done in the interest of
9 speeding up the process, getting a better
10 uranium product in a more timely manner.
11 Okay, finding number two -- and this is
12 probably the most significant finding, in my
13 mind, that appears in their report -- is that
14 the triangular distribution was not
15 statistically representative of the data -- of
16 the Simonds Saw and Steel dataset. They also
17 identify that -- they said the upper bound
18 wasn't claimant favorable.
19 Actually we -- we took a look at this in some
20 detail, and it turns out that there are -- and
21 we recognized this early on -- there are two --
22 are two underlying lognormal distributions for
23 these datasets, one for the Simonds Saw and
24 Steel data, one for the Bethlehem Steel data.
25 What we tried to do is to have a one-size-fits-

1 all with a triangular distribution to represent
2 both 1949 to '50, '51 and '52. And in fact, in
3 doing that, we tended to increase the exposure
4 to the workers rather than decrease it, using
5 the triangular.

6 I'm going to just skip ahead real quick to the
7 next slide so I can explain that, and then I'll
8 come back. This is the lognormal distribution
9 of the data for the Simonds Saw and Steel.

10 This is a representation of the lognormal data
11 for the Bethlehem Steel. First you can see the
12 striking difference in the air concentration
13 value, the tremendous difference. This is an
14 order of magnitude or more lower than this, on
15 average. And this is a representation of the
16 triangular distribution.

17 Now the assertion by SC&A that the upper end
18 does not go beyond 1,000 is true. But what
19 happens when you sample this triangular
20 distribution, you can see that there is a large
21 gap between the upper -- the values in the
22 upper air concentrations for the measured
23 values and our -- our -- the curve we actually
24 used. So when you go through in the Monte
25 Carlo process and sample this, you end up

1 sampling a much higher frequency of values at
2 the upper tail than if you were to use the
3 actual lognormal distributions. So in fact
4 what ends up happening is -- I've gone back and
5 looked at about five to seven cases that were
6 done using the triangular, and this is a rough
7 approximation, but the actual values for the
8 probability of causation dropped by about 30
9 percent if we were to take this curve and this
10 curve and use them to calculate the workers'
11 exposures.

12 So again, this is not a statistically precise
13 model. It is the model that was used for dose
14 reconstruction purposes.

15 Let me just go back now and talk about the
16 second point, which I think is very relevant.
17 SC&A, however, did make a very interesting
18 observation, which is that this single facility
19 distribution, this one-size-fits-all, may
20 actually underestimate doses for maximally
21 exposed workers. In other words, we sampled
22 that whole distribution uniformly -- well, not
23 uniformly, but in accordance with distributions
24 -- frequency. What if a worker actually had
25 his nose in rolling mill number one for ten

1 hours a day for 48 rollings? Then in fact it's
2 correct, we would underestimate that worker's
3 exposure. So in a sense, we conclude -- we
4 concur with SC&A that the use of a frequency
5 distribution is not appropriate, and we should
6 go back and use something more representative
7 of the highest exposed workers.

8 In an ideal world, we'd like to go back and
9 identify who were the highest exposed and who
10 weren't. We've done that, we've looked at the
11 job descriptions provided by claimants. It's
12 virtually impossible to make a determination
13 that would stick, I think. I mean you're
14 getting the claimant's job description maybe
15 the last year they worked, not when they worked
16 in '48. They may have changed jobs multiple
17 times. And in fact, most of the job
18 descriptions that I've seen put them in a
19 position where they would be highly -- could be
20 highly-exposed, let's put it that way --
21 laborers, millwrights, people that were in the
22 general plant environment and not like
23 cafeteria workers necessarily.

24 So to address this issue, we're going to model
25 the air samples using the lognormal

1 distributions just as I indicated, distribution
2 for Simonds and distribution for Bethlehem.
3 But we're going to pick the 95th percentile
4 value of that distribution and use that as a
5 constant value to input into the dose
6 reconstructions. We feel that this circumvents
7 the issue of the highest exposed workers. It's
8 claimant favorable for most workers and at
9 least representative of the highest exposed
10 workers.

11 This particular graph just depicts the fact
12 that these samples do fit a lognormal
13 distribution very well; correlation
14 coefficients approaching, you know, unity; you
15 get similar if not better fit for the Simonds
16 Saw and Steel data.

17 Now one thing I want to point out, though, is
18 SC&A report actually goes one step further than
19 this. They say okay, the highest worker is at
20 the 95th percentile. That seems reasonable.
21 But how well do you really know that 95th
22 percentile value. You only have three air
23 samples at that upper limit. We agree that
24 they were at the highest location. They were
25 at rolling mill area number one -- three of the

1 five highest were at rolling mill number one.
2 And so we were pretty confident we had the
3 upper limit captured.
4 SC&A's approach is, let's say -- if we went out
5 to the 95th percentile, which would be at 1.645
6 on this chart here, and say NIOSH were to use
7 this value, they're saying well, you don't know
8 that value very well; you should put some
9 uncertainty bars -- those of you who do
10 statistical analysis would recognize you'd put
11 error bars about this curve -- but they weren't
12 even saying that. They weren't saying put
13 error bars about this curve. Put error bars
14 about this individual point. Very difficult to
15 do. And in fact, in their discussion, one gets
16 the feeling that there's no really good
17 statistical way to do that.
18 Well, we are going to stick with the 95th
19 percentile for a number of reasons, and I've
20 tried to outline these in three bullet items.
21 One is that we believe that the rollings that
22 were done at Bethlehem Steel in '51 and '52 --
23 they're much lower. We observed that with the
24 air samples. But that the process used at
25 Bethlehem Steel would result in lower air

1 samples, even in '49 and '50, if we had them.
2 These are, (a), because they were finished
3 rollings. Workers that we've talked to that
4 worked in the plant at that time indicated that
5 the six-inch bar mill, which had the six
6 continuous rolling operations, only processed
7 finished uranium. Matter of fact, the uranium
8 that was actually produced at Mallinckrodt went
9 to either Simonds Saw and Steel or Allegheny
10 Ludlum for rough rolling. They rolled it down
11 to about a two-and-a-half-inch bar. Then and
12 only then would it go over to Bethlehem Steel
13 to be finish-rolled down to a -- its ultimate
14 diameter, about one-and-an-eighth inches.
15 Secondly, the furnace operation. Remember I
16 talked about this gas-fired furnace operation
17 at Simonds Saw and Steel. Even at Simonds Saw
18 and Steel at the end of 1949 they abolished the
19 use of that because they realized it was too
20 messy of an operation. So it's unlikely that
21 any rollings occurred at Simonds Saw -- at
22 Bethlehem Steel just using gas-fired furnaces.
23 There are indications that furnaces were used,
24 but it's what's called a muffled furnace.
25 There's no direct contact, and it essentially

1 was a pre-heater before they put it into the
2 salt bath itself.

3 The second and probably more important issue
4 here is the time-weighted average exposure.
5 Remember I said in October 27th, 1948 the
6 purpose of collecting those 40 air samples at
7 Simonds was to figure out what is the time-
8 weighted average exposure to the workers. The
9 time-weighted average exposure of the highest
10 worker, using that analysis, was 190 times the
11 maximum air sample -- air concentration. Our
12 95th percentile will end up using somewhere
13 close to 600. So we feel that there's a margin
14 of safety or conservatism built into that
15 number to begin with, even given that the
16 processes are not completely similar. We've
17 analyzed this and we believe that it's fairly
18 representative.

19 The third thing, which we've just indicated --
20 and this is not in your report, but you know
21 how you get these flashes when you're driving
22 home at times? Well, we had air sample data
23 for Simonds Saw and Steel. And in fact, it was
24 ta-- they were taken -- there's much air sample
25 data available for Simonds Saw and Steel, but

1 there were a number of samples taken in fairly
2 close proximity to October 27, 1948. So we're
3 pretty comfortable that -- remember, I said
4 it's important that -- early time frames there
5 was no ventilation, or little -- no ventilation
6 over the highest areas, anyway. So these
7 workers -- they took 60 air samples total over
8 what, six different time periods, well after
9 the 27th. We really don't know if these
10 workers continued to roll steel or not -- or
11 uranium. I'm assuming they did, but let's say
12 they didn't, and their only exposure was
13 October 27th, what would be coming out in their
14 urine if they breathed almost 600 times the
15 maximum allowable air concentration for ten
16 hours on that day? This is the urinary
17 excretion curve that would be predicted.
18 Now here are the actual measured samples. So
19 again, yet another proof or -- not proof, but
20 indication that the -- the use of about 600 MAC
21 is fairly indicative and in fact somewhat
22 conservative representation of the workers'
23 exposures at that time.
24 I think all these facts taken collectively give
25 at least NIOSH a comfort level that the

1 exposures of using 600 MAC is a fairly
2 reasonable estimate.

3 Okay. I'll move on. I know I took a little
4 bit of time on that, but I think those were two
5 --

6 **MR. GRIFFON:** Can I just ask a quick
7 clarification on that, Jim?

8 **DR. NETON:** Yeah.

9 **MR. GRIFFON:** Did you run any -- any IREP
10 models to compare how your outcomes came with
11 just a constant value at the 95th versus your
12 triangular distribution? I'm sure --

13 **DR. NETON:** I'm not sure exactly --

14 **MR. GRIFFON:** -- I mean did they always improve
15 the POCs or increase the POCs? Did you -- in
16 other words, did you take the -- you said you
17 examined using the lognormal -- or the -- the
18 lognormal distribution --

19 **DR. NETON:** Right.

20 **MR. GRIFFON:** -- versus the triangular --

21 **DR. NETON:** I used two lognormals, though, one
22 for Bethlehem air data and one for Simonds air
23 data --

24 **MR. GRIFFON:** Right.

25 **DR. NETON:** -- and when you use those together,

1 you will get a PC value that is lower every
2 time.

3 **MR. GRIFFON:** Right.

4 **DR. NETON:** And the reason --

5 **MR. GRIFFON:** Did you do a similar comparison
6 with your constant value at the 95th, though?

7 **DR. NETON:** Oh, the constant's going to go up
8 because the effective air concentration's going
9 to double. I think -- if you remember last
10 time, the effective air concentration, which is
11 really sort of what IREP ends up using, was
12 about 334 MAC for the triangular.

13 **MR. GRIFFON:** Right.

14 **DR. NETON:** It's going to go up to about 600.

15 **MR. GRIFFON:** Right.

16 **DR. NETON:** I think these numbers --

17 **MR. GRIFFON:** (Unintelligible) discussions of
18 the effect of the uncertainty on driving the
19 POC model, but I just wanted to...

20 **DR. NETON:** Yeah, it turns out that the
21 uncertainty distribution itself was -- it's
22 equivalent of giving 334 MAC for the
23 triangular. We will use -- don't quote me on
24 this exactly -- it's about 600. We have to go
25 back and make sure all the air sample data

1 we're using are appropriate and that sort of
2 thing.

3 Okay. Finding number three talks about the
4 selection of the minimum, mode, and maximum for
5 table 2. There were two tables in the site
6 profile, a lower table and an upper table. And
7 what we did was, if any case would be -- appear
8 to us to be over 50 percent for the lower
9 table, we never bothered to use the upper
10 table. The upper table is really the
11 triangular distribution that we just talked
12 about. It was the high table. The low table
13 was based on Simonds -- or Bethlehem Steel
14 actual air sample data -- much, much, much
15 lower. The reason for that is, any cancer that
16 was going to be compensable was -- I think
17 almost with -- save one exception, was
18 compensable under this low exposure model. In
19 other words, the lung cancers, maybe the liver
20 cancers, the ones that you would expect to have
21 higher doses because of their metabolic
22 behavior were all compensable under air sample
23 concentrations similar to what happened at
24 Bethlehem Steel in '51 and '52. You didn't
25 need to have the Simonds Saw and Steel data in

1 there to drive that over compensability.
2 Anyone that looked like it was under 50
3 percent, though, would have run under this much
4 higher matrix that -- that looked -- that
5 included the Simonds Saw and Steel data. And
6 in fact, all of those cancers were also non-
7 compensable under there.
8 We never used it, though, to make determination
9 -- it obviously was confusing to SC&A -- since
10 it was not really used to deny any cases or to
11 calculate any cases that would appear to be
12 denied, we're just going to take it out. It's
13 not -- it's not going to affect the
14 compensability for any case or future analysis.
15 It's just too confusing to leave in there so we
16 just feel it's most appropriate to take it out.
17 So that finding I think we're in pretty good
18 agreement on.
19 Finding number four is a little bit of a vexing
20 issue for us. SC&A has talked about steel
21 workers in a heavy environment may actually
22 breathe through their mouth more than through
23 their nose than either the general population
24 or even the general worker. And honestly, I'm
25 a little bit confused by the comments, because

1 they appear to say two things to us, but we've
2 gone through and looked at this in some detail.
3 If one looks at the ICRP-30 default values for
4 heavy exercise, it assumes that a worker
5 inspires at about three cubic meters per hour.
6 That is a fairly hefty inhalation rate. And
7 not only that, they assume that 50 percent of
8 that time a worker is breathing through their
9 mouth. So the comment that SC&A makes that we
10 need to consider oro-nasal breathing I think is
11 somewhat part and parcel built into the ICRP
12 models.

13 We did not have all the workers in the original
14 profile breathing at the heavy worker rate, but
15 we concede that yes, we don't know that, so
16 we're going to assume all workers were heavy
17 workers.

18 Now I need to distinguish between heavy work
19 and heavy exercise. This is an ICRP construct.
20 It may be somewhat dense to folks, but the
21 heavy work ends up being at 1.7 cubic meters
22 per hour, and what that assumes -- and I just
23 noticed there's a typo here -- it assumes $7/8$
24 light exercise and $1/8$ heavy exercise. So if
25 you'd correct that in your notes it'd be good.

1 But in a sense what this is -- it's a hybrid.
2 It says I'm a heavy worker and eight -- one
3 hour out of the shift, if I'm working eight
4 hours, I'm going to be breathing three cubic
5 meters per hour, 50 percent through my mouth.
6 So it acknowledges that a certain percentage of
7 the time when you're working, you're going to
8 be doing that.

9 I know of no job that breathes three cubic
10 meters per hour. In fact, if you look through
11 the ICRP values, I think for uranium miners in
12 Africa they assume somewhere around 1.3 cubic
13 meters per hour. I think uranium mining is a
14 fairly demanding job, as well. So in some ways
15 I'm puzzled why this was a finding because a
16 finding means that -- that we've done something
17 completely inappropriate and it really needs to
18 be fixed, where I think this -- this falls
19 more, in my mind, under the observation
20 category where, you know, there's an
21 indication. Maybe you ought to look further
22 into this and do some more homework.

23 But nonetheless, we're willing to -- we're
24 going to increase the model to 1.7 cubic meters
25 per hour, which means that a percentage of the

1 time workers are going to be mouth breathing.
2 Now one other way to read this report, though,
3 it says that there's a table in there that
4 talks about people who are habitual mouth-
5 breathers. There is a certain segment of the
6 population that breathes a good percentage of
7 their -- through their mouth, no matter what.
8 So by inclusion of that table, I'm not sure
9 whether the SC&A report wants us to assume all
10 workers are habitual mouth-breathers -- because
11 there's no way in a compensation program we can
12 go back and establish that for every worker, so
13 that would then be the default -- or whether
14 they're really just saying you need to maybe
15 boost up this distribution here.

16 Now at this point NIOSH is standing with -- we
17 believe the default value that's in ICRP for
18 heavy work is appropriate. We see no real data
19 or indication to the contrary here. But we're
20 certainly interested in hearing the opinion of
21 the Board on this. This one of these areas
22 where we need -- we'd like to have some advice
23 and discussion, and we're willing to reconsider
24 this, depending on what the Board determines.
25 Okay, finding five was the ingestion dose

1 estimates. We're low. They didn't include all
2 the ingestion dose that a worker could have --
3 could have experienced by working at Bethlehem
4 Steel. In looking at this, though, I think at
5 the end of the day we were not in that much of
6 a disagreement for the individual rolling days.
7 On an individual day our air dispersion model,
8 which just took all the amount of uranium in
9 the air and deposited it on the ground, ended
10 up with a worker ingesting about 20 milligrams
11 of pure uranium. The SC&A report -- I wouldn't
12 call it a recommendation, but suggested maybe
13 an upper limit of 100 milligrams per day based
14 on experience of workers in dusty trades like
15 construction might be more appropriate. And we
16 grant that.

17 But if you look at this, though, this is 20
18 milligrams of pure uranium. They are ingesting
19 material in an environment that has a lot of
20 steel dust around. If you talk to people like
21 Ed Walker, he'll tell you that the uranium --
22 the iron dust in the plant was sometimes four
23 inches thick. So in a sense what you're going
24 to have is uranium deposited in this iron dust
25 matrix, and so the fraction of the 100

1 milligrams that SC&A suggests, if it's around
2 20 percent, which I think is probably an upper
3 estimate, we're not in too -- not in
4 substantial disagreement, I don't think, here.
5 I think one thing SC&A does disagree with is
6 how our dispersion model came about. We're
7 going to take a look at that and revisit the
8 dispersion of air and deposition on surfaces.
9 But I think at the end of the day we're not far
10 apart with SC&A's reported recommendations.
11 Where we still had a disagreement, though, was
12 the exposure from ingestion due -- and
13 inhalation, for that matter, in between
14 rollings. And I'll address that under finding
15 seven.

16 Finding six, the default particle deposition
17 parameters were not claimant favorable. This
18 again I don't think was based on -- and I think
19 this, in my mind, more appropriately falls in
20 the area of an observation, because there is no
21 direct evidence provided by SC&A that particle
22 sizes were smaller. They're suggesting that
23 they could be.

24 Well, we've looked at the default -- the
25 definition of default particle sizes for ICRP

1 and, to remind the Board, that assumes a five
2 micron particle size, which is fairly
3 consistent with work that involves operations
4 involving mechanical processes. But it's
5 important to remember that that five microns is
6 not a fixed value. It has a geometric standard
7 deviation associated with it, so it does allow
8 for the existence of other particle sizes.
9 So we've looked at the ICRP recommendations
10 here. We feel that it -- it bears to our
11 conclusion that five is adequate. We also went
12 and looked at some other facility -- publica--
13 published values at facilities. In fact,
14 rolling milling operations. And again, five
15 microns does not appear to be inconsistent with
16 those studies.

17 And one thing I've ignored here is Simonds Saw
18 actually, in 1950, went and did a particle size
19 study where they took floor samples -- I forget
20 the exact operation, but it's not unlike what
21 you would experience at the mill -- and the
22 particle sizes were very consistent. And in
23 fact, with the standard -- with the geometric
24 standard deviation 2.5, which is probably
25 fortuitous, but the particle sizes are very

1 consistent with using five microns. So in our
2 opinion there is no reason at this time, unless
3 future evidence comes to the fore, that we
4 would change that value.

5 Okay, this is what I talked about earlier
6 where, you know, we did not have any exposure
7 from residual contamination included in our
8 model. In looking at this, we do now agree
9 that we should include residual contamination.
10 The evidence that we have to conclude that
11 there was none was documentation indicating
12 that they cleaned up between rollings. Uranium
13 was a valuable commodity in metal at that time.
14 And also we had an air -- a smear value.
15 Remember I reported where they actually did a
16 smear of the area before and after the rolling
17 and indicated the area were clean. Well, the
18 fact of the matter is, though, we only had one
19 smear. And also from worker interviews that
20 SC&A conducted, it led us to the conclusion
21 that it would be pretty hard to clean up every
22 atom of uranium and demonstrate it. So we do
23 believe that there is credibility -- there's
24 some credit that should be given for
25 contamination in between rollings, and we stand

1 ready to do that.

2 We haven't fixed on the exact model yet, but

3 we're going to include both inhalation and

4 ingestion. There are some ways to do this. We

5 can have -- we can model the ingestion after

6 representative intakes of dust. Remember we

7 talked about this 100 milligrams of ingestion

8 per day -- may be higher, I'm not sure exactly

9 where that's going to be fixed. But it does

10 need to be -- one does need to take into

11 account the dilution that occurs as you process

12 steel and it mixes with this uranium. The

13 amount -- the fraction of what you're ingesting

14 of that 100 milligrams per day will go down

15 between rollings, so we'll -- we will take that

16 into consideration.

17 Also -- let's see intakes of dust -- oh, and

18 then for the inhalation intakes, there are some

19 published values that we're aware of for places

20 like steel mills where -- you know, what is the

21 dust loading in a steel mill just based on

22 resuspension, no operations occurring, and what

23 are people breathing in. And again, we can

24 apportion the amount of the resus-- the

25 fraction of the resuspension that's due to --

1 due to inhalation of steel -- or iron oxide,
2 essentially, versus the amount of uranium
3 that's in that. So we stand ready to do that
4 and we've already started working on an
5 approach to -- to that.

6 They did mention in their review that external
7 doses need to be addressed, and we agree. We
8 do believe they're going to be extremely small
9 for residual contamination, but for
10 completeness' sake we at least need to do some
11 sort of a mention of that and cover -- cover
12 the waterfront there.

13 Okay, the last finding, external dose due to
14 various models -- modes of contact, this is an
15 area where -- and this shows up also in the
16 observations, that workers make assertions
17 about well, I was holding or I was carrying
18 metal. Your model only assumes that I'm -- I'm
19 one foot from it, you know, at a certain amount
20 of time. So we've gone back and looked at this
21 a little closer. If you look at the annual
22 dose of the distribution, it's 133 rem on an
23 annual basis. It's a huge amount of external
24 dose, particularly shallow dose, to give to a
25 worker. So -- and we compared this to a

1 situation like where workers were working at
2 Fernald between '52 and '55. The highest
3 exposure was ten rem. They processed 20-
4 something million pounds of uranium here and
5 machined it. I think the highest that I can
6 come up with is about 600,000 pounds per year
7 production of processing of metal at Bethlehem
8 Steel.

9 So here we have a facility that did a lot of
10 work, the doses are much higher than the
11 annualized mean. But we also need to do a
12 better job -- and I'll talk about this in the
13 observations -- of communicating that to the
14 workers. If there's any shortcoming that we
15 have in our profile, it's -- it's we didn't
16 communicate how we approve (sic) at these -- how
17 we arrived at these conclusions.

18 Two years ago when we were putting this
19 together, we wrote this, frankly, for a health
20 physics group that was going to use this to do
21 dose reconstructions. Now we understand fully
22 that we need to go better and document why
23 these -- these observations were used and how
24 they speak to the sort of exposure scenarios
25 that aren't exactly addressed.

1 I did a calculation -- if you take this mean
2 value of exposure, it would be the equivalent
3 to a worker either sitting on or carrying or
4 holding an ingot of uranium for three hours
5 every day. I mean so we allow -- I mean we
6 don't say that the worker was in contact with
7 it, but the equivalent dose would be delivered
8 if three hours out of that entire day the
9 worker was handling the uranium. So we don't
10 believe that there's a huge issue here.
11 The observations I kind of lumped on one slide.
12 Observations one, two, three, four and five are
13 really the result of questions, worker --
14 worker questions, comments raised during
15 either, separate and apart from SC&A's review,
16 the rollings after '52; or SC&A interviewing
17 workers and workers saying well, I worked more
18 than ten hours, or I -- there were cobbles and
19 they cut these things and there were these
20 short, episodic events that occurred. Those
21 are the kind of things that are covered in
22 these observations. And as I just mentioned,
23 we need to do a much better job explaining why
24 the model we're using -- why 600 times the
25 maximum allowable air concentration for ten

1 hours a day is sufficient to cover those types
2 of episodic events that may have occurred, and
3 why our external exposure model sufficiently
4 addresses these other incidents where a worker
5 may have actually had to grab a bar for a
6 while, that sort of thing. And it really is a
7 matter of doing a much better job explaining
8 it.

9 Observation six questions why environmental
10 exposure is not included. The fact is that we
11 assumed all workers were occupationally
12 exposed, so you know, the occupational exposure
13 was the relevant metric. Environmental
14 exposure when they're off work is not -- is not
15 included, other than the fact that we will now
16 add residual contamination, which I suppose one
17 could consider that an environmental exposure,
18 but you know, we assumed the workers were
19 breathing very high occupational levels during
20 entire work -- you know, the work episode.
21 Seven questions photofluorography. We agree
22 that we need to evaluate that, and we've
23 already started on looking through the use of
24 photofluorography at Atomic Weapons Employers.
25 If you remember, we focused early on at

1 photofluorography at Department of Energy
2 facilities where there was large masses of
3 people being screened. We don't know if
4 photofluorography was really used at Bethlehem.
5 If there's any indication at all there was,
6 we're certainly going to include it. Early
7 indications are -- we looked at some Simonds
8 Saw and Steel medical evaluations, and they're
9 not. Now that doesn't mean Bethlehem wasn't,
10 but suffice it to say that if there's any doubt
11 at all, we're going to go ahead and include
12 photofluorography as a -- as a means of
13 exposure for medical -- medical evaluations.
14 Okay. In the last slide, about -- there was --
15 there was three procedural conformance issues
16 raised. One had to do with the ICRP-75
17 guidance and I think I kind of discussed that a
18 little bit. The other two had to do with the -
19 - SC&A's opinion that NIOSH was required to use
20 worst-case exposures for these calculations,
21 and in fact we're not. I mean we do claimant
22 favorable assumptions when the technology can't
23 inform us or science can't inform us. But I
24 think -- I think the root of this observation -
25 - these issues were that it's -- we didn't do a

1 good enough job explaining the difference
2 between a claimant favorable estimate and an
3 intentional overestimate.

4 A claimant favorable estimate is when you have
5 two equally plausible scenarios and both --
6 both seem reasonable, and one gives you a
7 higher dose, we're going to pick the one that
8 gives you the higher dose every time.

9 For part of the efficiency process, though,
10 we've developed some -- some procedures, OTIB-4
11 I think is the one cited in the review, that
12 provide intentional overestimates to what we
13 believe to be demonstrably low exposure group -
14 - worker groups. You know, whether they were
15 cafeteria workers or administrative folks, we
16 will say okay, that worker group certainly did
17 not have anything more than 100 times the MAC
18 over their entire work history for all time,
19 and demonstrate that even under that scenario,
20 the PC value is certainly going to be less than
21 50 percent.

22 That's a very different -- different beast.
23 And so there is really no good reason why we
24 should use that -- that document and apply it
25 to someplace like a Bethlehem Steel.

1 Okay. I know this is not really germane to the
2 review, but the question comes up often is what
3 does this really mean in terms of cases'
4 compensability. So I just have a slide here --
5 I apologize, it's slightly out of date, but
6 we've done most of the Bethlehem Steel cases so
7 probably not that different today. But you can
8 see there's an extreme bimodal distribution of
9 compensabilities here. About 43 percent of the
10 cases were over 50 percent already. These have
11 not been all through the Department of Labor.
12 These are the dose reconstructions we've done,
13 so based on the doses that we've calculated,
14 sent over to Department of Labor, we believe
15 that this many are going to be over 50 percent
16 at the end of the day.
17 More significantly I think, though, is to point
18 out that 44 percent of the cases, even given in
19 the old profile, values are less than ten
20 percent. Now the reason for this of course is
21 the nature of the exposure. It's primarily the
22 inhalation model that drives it. When you
23 inhale uranium, uranium doesn't concentrate in
24 the pancreas, it doesn't concentrate in the
25 bladder or various other organs. So even under

1 these conditions, if this value were doing --
2 if these cases were to increase by an order of
3 magnitude, factor of ten, it would not put them
4 over 50 percent. This is not a linear scale.
5 It's not five times this will get you over 50.
6 It's not a linear scale at all, so these cases
7 by and large would require more than ten times
8 the dose.

9 So what I'm really saying is, with these
10 adjustments that we've made or will make and
11 are considering and will consider, based on the
12 Board's advice, we don't see a wholesale shift
13 in -- in compensability from the Department of
14 Labor's final adjudication, even if we do
15 modify the -- when we modify these profiles,
16 how some of these cases end up being changed is
17 hard to predict, but I suspect that there will
18 be some change in these cases, particularly the
19 ones in the 40 -- 30 to 40 percent range, but
20 we -- it's very difficult to calculate --
21 estimate that. It's a really individual --
22 there's so many parameters that drive that that
23 I couldn't tell you that today, and in fact we
24 haven't revised the model yet. But I just
25 wanted to point that out. I think it's very

1 significant to point out this bimodal
2 distribution. And in fact I think this is not
3 going to be uncommon for many of the sites
4 where inhalation exposure drives
5 compensability, places like uranium facilities,
6 plutonium facilities, that sort of thing.
7 Okay, with that I've finished my formal
8 remarks. I'll certainly be willing to take any
9 questions.

10 **DR. ZIEMER:** Thank you, Jim. We'll have a
11 moment for questions here. I want to remind
12 the Board that on the Bethlehem site profile we
13 do need to reach a kind of closure. I'm
14 hopeful that we will reach that closure before
15 we leave St. Louis this week.

16 The findings that Jim has gone through -- it
17 appears that some of them have been largely
18 resolved, but there are others where they --
19 where NIOSH has specifically indicated where
20 they differ from SCA in terms of their view and
21 where they have specifically asked -- for
22 example, on page 6 of the narrative, not the
23 power point presentation but page 6 of Jim's
24 narrative, for example, in the second paragraph
25 where it says NIOSH believes that the use of

1 the 95th percentile and so on adequately
2 reflects the upper limit, but NIOSH is
3 interested in hearing the Board's thoughts on
4 this issue and is willing to reconsider our
5 position based on the Board's recommendation.
6 And there are several spots through the
7 narrative where NIOSH has in fact asked for
8 specific input. And in a sense, if the Board
9 is able to address those issues, that will be a
10 way of coming to closure. We have the
11 opportunity to weigh in that we agree with
12 NIOSH or we agree with SCA -- SC&A, or we
13 believe that there's some other viewpoint or a
14 mid view or whatever it may be, so we have that
15 opportunity. And I hope as we begin to discuss
16 -- and I think we can take some general
17 questions -- and we may not be able to finish
18 this yet today because we have a public comment
19 session beginning at 4:30, but we can get
20 underway here and we can ask questions, and
21 then we can begin to deal with the specific
22 issues and try to bring some level of closure
23 to the Bethlehem site profile review.
24 So with that comment, Dr. Roessler, I see you
25 have a comment or question?

1 **DR. ROESSLER:** My comment, and then a question.
2 My comment is that I think that this is a very
3 good process. As an individual Board member, I
4 don't have the time and I -- and most -- many
5 cases, don't have the expertise to evaluate the
6 -- what do we have, hundreds or thousands it
7 seems like of pages that are coming from SC&A,
8 so I think to have this point and counterpoint
9 for us is very productive. And my conclusion
10 from this is that a lot of the findings can be
11 addressed by just explaining better what NIOSH
12 did. Some of them there is a disagreement.
13 And I think by putting it out on the table like
14 this where we can actually look at the
15 individual specifics on this site is a good
16 process.

17 My question, though, is is -- I'm thinking to
18 the future -- is how -- how will this
19 information we're getting from this particular
20 site and the evaluation apply to future sites?
21 Will this -- will NIOSH improve probably in
22 explaining things? Will there be things that
23 we resolve that will apply to future sites?

24 **DR. ZIEMER:** That's an excellent question and
25 it's really a process question. And one might

1 reflect that this parallels the process for
2 dose reconstructions. We basically at our last
3 meeting set forth a sort of six-step process
4 for how dose reconstruction reviews would be
5 handled, and it may be that the Board would
6 like to inaugurate a similar type of process
7 for the site profile reviews where we -- we
8 have an initial report of a site profile review
9 that we then ask NIOSH and SC&A to go through
10 this kind of process which involves both fact-
11 finding -- that is, are the facts correct;
12 where there's disagreements, is it a
13 disagreement on actual -- the science or is it
14 simply a factual misunderstanding or what's the
15 nature of the disagreement, and try to then
16 reach some consensus on those issues where it
17 is simply a misunderstanding or an
18 informational issue versus those where it's a
19 pure, valid, scientific disagreement on either
20 how one interprets or how one should apply the
21 particular situation. But I think we must
22 have, as we proceed forward, not only how we
23 come to closure on this particular review, but
24 what will the process be for future reviews.
25 And this provides an opportunity for us to put

1 a kind of template in place for that.

2 Dr. Melius.

3 **DR. MELIUS:** (Off microphone) I actually had
4 questions on some of the specific points, I
5 don't know -- excuse me.

6 I actually had questions on some of the
7 specific comments, so I don't know if people
8 have some other -- Mark, do you have some
9 general ones first? If not, I'll start.

10 **MR. GRIFFON:** Yeah, I was -- I was actually
11 just going to propose a process, at least for
12 this phase, for this report, but if you want to
13 --

14 **DR. ZIEMER:** You might want to hear the
15 question --

16 **MR. GRIFFON:** Right.

17 **DR. ZIEMER:** -- specific questions first then.

18 **MR. GRIFFON:** Yeah, so you might as well go
19 first.

20 **DR. MELIUS:** And I'll start with comment -- SCA
21 comment number two, I guess is where we're
22 going through here.

23 **DR. NETON:** Procedural conformance comment or -
24 -

25 **DR. MELIUS:** Finding number two.

1 **DR. NETON:** Finding two, okay.

2 **DR. MELIUS:** Finding, yeah.

3 **DR. ZIEMER:** This is the triangular
4 distribution comment?

5 **DR. MELIUS:** Yeah, it -- do that. And I guess
6 my question is going through -- if we're
7 adopting this as a way of going forward, are
8 you assuming that the -- then the interview
9 information in this application of this
10 approach would not allow you to distinguish
11 between people that were say more highly
12 exposed than others? You made -- made that
13 comment when you were presenting this and that
14 -- and I didn't know whether it was one based
15 on the interview information you have from the
16 CATI interview or from your follow-up to the --
17 in talking to the workers and some of the
18 follow-up that -- the meetings we've attended
19 in Buffalo and so forth.

20 **DR. NETON:** That's a good question, and what I
21 was speaking to was the -- the job category
22 that is included in the application to the
23 Department of Labor. There's a job title block
24 and I forget where it appears, but -- then we
25 look through the distribution of those, there's

1 543 and they were all over the map, but most
2 all the workers indicated some type of job
3 where one -- one could make a value judgment
4 that they were fairly heavily exposed. So it
5 really didn't seem to make any -- we couldn't
6 tell from that where you -- where you draw the
7 line, based on job title.

8 Now what you're speaking about is the CATI, the
9 computer-assisted telephone interview. And
10 first of all, I think roughly half, if not
11 more, of our claimants are survivors, so that
12 we're not going to get much information from
13 them. So then you're left with the other 50
14 percent, who are active claimants, former
15 workers, and yes, you're right, we could -- we
16 could, based on the statements collected in
17 that interview, maybe come to a better sense of
18 their exposure situation.

19 How that plays out in an adjudicatory process
20 and stuff is beyond me. I don't -- it would be
21 very difficult -- we could, in a sense, parse
22 out the ones who, like I said, well, I was a
23 cafeteria worker and so I had no exposure. Now
24 at that point then you're relying on the
25 veracity of the claimant's statements and --

1 and -- I don't know, that's an area where I
2 don't want to tread. That's a policy type
3 thing. But in our opinion, it would be very
4 difficult to stratify them in the -- in the
5 large mass. There may be some, some small
6 percentage that you could, based on the
7 interview, come to the conclusion there was no
8 exposure.

9 **DR. MELIUS:** Yeah, see -- see, what I'm
10 struggling with is figuring out how this issue
11 of which distribution to use and -- and how to
12 use that distribution in terms of handling
13 claims, how that interacts with individual dose
14 -- individual claimants.

15 **DR. NETON:** Okay.

16 **DR. MELIUS:** Because essentially what you're
17 doing with Bethlehem is coming up with one
18 approach -- one metric that applies to
19 everybody, and you just basically just plug in
20 how long they worked there and what organ
21 system --

22 **DR. NETON:** Correct.

23 **DR. MELIUS:** -- they have cancer, and does not
24 at all take into account anything about their
25 type of job or any -- any other individual

1 information. And that may be all that's
2 available and therefore you have to come up
3 with some approach there. There may be other
4 situations where -- where there may be more
5 individual information available, better work
6 histories or whatever. But what you've done is
7 a very generalized sort of an epidemiological
8 approach, you're just -- though applying it to
9 claims as opposed to what you would do for an
10 epidemiological study or some study to
11 generalize about exposures there. And I'm
12 trying to get the context in which we're
13 supposed to then make a recommendation to you
14 as will this -- is this correct, and --

15 **DR. NETON:** Well, the approach here is no
16 different than what the original site profile
17 had, which is one-size-fits-all. All we're
18 suggesting is that --

19 **DR. MELIUS:** Yeah, no --

20 **DR. NETON:** -- that the values are going to go
21 up for the '49 and '50 time frame and --

22 **DR. MELIUS:** But what we're -- what we're tal--
23 discussing about is how to refine that, or
24 should that approach be refined --

25 **DR. NETON:** Yeah, I agree with you, Dr. Melius.

1 **DR. MELIUS:** -- in some way, particularly --
2 and this particular issue is very much an issue
3 of just how to refine that in a very
4 methodological way.

5 **DR. NETON:** We're very interested in hearing
6 the input from the Board on that. I will -- I
7 will offer that -- remember I mentioned at the
8 low exposure matrix, it doesn't take much
9 inhalation exposure for a worker to move over
10 into above 50 percent for -- for certain
11 cancers, so does it really make any sense then
12 to start stratifying and saying well, you had
13 ten MAC exposure and you're over 50 percent, or
14 you had 500 and you're over. It's sort of a
15 economy there of efficiency -- the efficiency
16 process.

17 **DR. MELIUS:** Right.

18 **DR. NETON:** But we're certainly very interested
19 in hearing the Board's input on this.

20 **DR. ZIEMER:** Okay, additional comments or
21 questions?

22 **DR. NETON:** Dr. Ziemer, if I -- finish here.
23 I'd just like to point out that we did not want
24 to presuppose that the Board was in total
25 agreement with SC&A's findings, by the way. I

1 mean just because we're in agreement does not
2 necessarily mean the Board should be, I
3 suppose, and so --

4 **DR. ZIEMER:** Yes.

5 **DR. NETON:** -- I guess that's obvious, but --

6 **DR. ZIEMER:** Yes, thank you.

7 **DR. NETON:** -- I just wanted to state that.

8 **DR. ZIEMER:** Mark?

9 **MR. GRIFFON:** I guess what I was going to
10 propose was you know, try -- in an attempt to
11 try to come to resolution while we're in St.
12 Louis, I like how you phrased that, not right
13 now, but while we're in St. Louis. I wondered
14 if we could ask our subcontractor tonight to
15 give a one to two-page, very brief summary
16 response to these -- to what's been pointed out
17 today, and I think that all the arguments are
18 out there, so this can really be a brief
19 response. They can even cite previous
20 arguments they've made if they still stick to
21 those, but they don't have to re-- you know,
22 they don't have to elaborate them any further,
23 but just a matter of saying we agree with
24 NIOSH's modifi-- you know, resolution for
25 finding number one, we agree with -- you know,

1 we disagree with finding -- number two
2 resolution for this matter and it's -- and it's
3 expanded on in our report A or whatever,
4 something to that effect that they can put
5 together on short order and then we can -- then
6 we can, in our deliberations tomorrow or
7 Wednesday, compare the two and say -- you know,
8 that -- that'll help us with a rationale and a
9 final resolution for this -- this site profile
10 report, I think. At least it will --

11 **DR. ZIEMER:** I think the Chair is going to ask
12 the Designated Federal Official to make a
13 determination on -- as to whether or not this
14 can -- this is a kind of task, whether it's
15 within the framework of the tasking of our
16 contractor, whether the contractor would in
17 fact be both prepared and able to do what
18 you've just said, and --

19 **DR. WADE:** Let's take them in turn. I think it
20 is within the scope of the contract, but let me
21 turn to Dr. Mauro. Would -- would you and your
22 staff be able to devote time this afternoon and
23 this evening to putting together this one or
24 two-page summary?

25 **DR. MAURO:** I guess the brief answer is

1 probably no, and the reason is -- first of all,
2 let me say that I could see that a tremendous
3 amount of work has been done on behalf of NIOSH
4 to come to grips with so many complex issues,
5 and now we're hearing a lot -- the positions
6 taken by NIOSH -- the strategies. I don't
7 think they are specific, but there are
8 certainly strategies that have been outlined.
9 I -- now I don't -- our team consists of a
10 group of perhaps eight people, including
11 numerous statisticians, internal dosimetrists,
12 health physicists, industrial hygienists that
13 collectively prepare our work and our work --
14 our report. I would think it would be
15 presumptuous on my part to come forward with a
16 position on such short notice without a
17 deliberative process within my team. So I
18 would say I'd prefer not to be put in that
19 position at this time.

20 However, I believe we can -- our team can
21 reconvene and -- to discuss these matters. Now
22 the only question is again a process question.
23 Were we to reconvene our team and I were to
24 communicate -- and we were to communicate to
25 the rest of the team our understanding -- which

1 I, by the way, I do fully feel I do fully
2 understand, and the rationale behind it -- and
3 there's also a lot of material that Dr. Neton
4 had made reference to, very important material;
5 for example, the information regarding the
6 diameter of the particles, that is new data.
7 So in effect, what we have here is a preview of
8 what one would consider to be a -- either an
9 addendum to the site profile, perhaps a rev to
10 the site profile, that would contain a lot more
11 descriptive material, the supporting
12 documentation, the rationale. By way of
13 process, I guess I would be thinking that we,
14 our team, under the direction of the Board, we
15 would not take any steps along these matters,
16 would I guess be on the receiving end of a --
17 of a more complete offering as this is --
18 certainly this was a terrific overview and a --
19 but I think the proc-- the next step in the
20 process is once that material has been
21 assembled, let's say by NIOSH and presented to
22 the Board, at that time I would say that Board
23 may want to request that we have one of these
24 meetings similar to the one we had at
25 Mallinckrodt where we go through each one of

1 these.

2 We would like, of course, an opportunity to
3 receive that material, have a chance to
4 deliberate amongst our full team, which
5 includes the full spectrum of scientific and
6 engineering disciplines, and then have a
7 meeting with NIOSH, in a public setting similar
8 to the Mallinckrodt meeting, where we can go
9 through this list and perhaps at that point
10 actually go -- check off okay, here's still
11 something that might be outstanding.

12 So I have to say -- to answer your question
13 again, I -- I would say I would rather not try
14 to do that this evening.

15 **DR. ZIEMER:** Thank you, John. I think the
16 Board fully understands what that looks like
17 from your point of view.

18 And -- but -- and Mark, that also may play into
19 what we need to think about in terms of our own
20 process then and what the role of the
21 contractor would be in this kind of situation.

22 Jim?

23 **DR. MELIUS:** Yeah, I have a couple of comments
24 on that. First of all, I personally would be
25 interested in at least having some response, if

1 appropriate, from SC&A as to whether the NIOSH
2 response did address their comments. I'm a
3 little confused, for example, about finding
4 number six, and it may be that I didn't
5 understand and I was actually sort of flipping
6 through my papers when -- trying to find this
7 when Jim was doing his presentation, but it
8 seemed to me, at least from my -- the previous
9 presentation on this and the current presenta--
10 it wasn't clear to me that that -- that NIOSH's
11 response did address what SC&A's actually
12 comments were, which seemed to be more of an
13 organ-specific issue, as opposed to a general
14 issue about particle distribution. I may have
15 misunderstood you, Jim, and -- and so forth,
16 but I guess I would be interested if there were
17 any other issues like that.

18 If not, I think we need to -- I don't think we
19 can expect SC&A to do a full response, nor
20 should they. There's a lot here in the NIOSH
21 response which I think is future work on their
22 part, also. I think -- and what I take out of
23 this is that they were going to make some
24 modifications, however that will be done, to
25 the site profile. I think then the Board has

1 to make a decision later on as to do we review
2 that? NIOSH may -- may want a decision. How
3 should that be reviewed? And that would be
4 more appropriate, but I don't think we can come
5 to closure on that, other than the sense of --
6 of I think we have to say yeah, we agree with
7 the general approach NIOSH is taking on these
8 issues. They're going to further explore some
9 of these issues, get further information. I
10 have some comments at some point where we could
11 -- would reinforce what I think should be done
12 on some of these issues. But again, I don't
13 think we can expect SC&A and NIOSH to come to
14 sort of full agreement and closure at this
15 point in time.

16 **DR. WADE:** Just a general observation for my
17 part. I think that the -- that both parties
18 have come a long way towards resolving issues.
19 I think SC&A is to be complimented, as are the
20 staff at NIOSH. I think we've come a long way.
21 The question the Board has to contemplate is
22 how far do you take this process and when do
23 you, as you said, Dr. Melius, when do you say
24 to NIOSH please go forward and do what you say
25 and bring back that modified site profile for

1 the Board to look at again. So again, I think
2 we're coming towards the tail of the curve.
3 The question is how far do we go.

4 **DR. ZIEMER:** Other comments? Or questions?
5 What -- what is the Board's pleasure on the
6 specific questions that NIOSH has asked? There
7 are one, two, three, four --

8 **DR. MELIUS:** Could I ask --

9 **DR. ZIEMER:** I see four specific places where
10 NIOSH has asked for Board input.

11 **DR. MELIUS:** And on finding number six, Jim
12 started to get up to respond, and then I think
13 he --

14 **DR. ZIEMER:** Oh, sorry, Jim.

15 **DR. MELIUS:** -- may be responding to my lack of
16 understanding, so --

17 **DR. NETON:** Yeah, I might have been not clear
18 enough on finding number six, but the crux of
19 the issue -- as our understanding -- is that
20 there could have been smaller particle sizes at
21 Simonds Saw and Steel that were not covered by
22 the representative or default five micron
23 particle size distribution. And I think what
24 you see in their discussion is examples of the
25 doses to various organs that could be higher if

1 the particle size distribution were skewed more
2 towards the smaller particles. So it's not so
3 much an organ-specific issue. It is is it
4 plausible that the AMAD, the aerodynamic median
5 activity diameter of the particles is
6 substantially less than five microns, as
7 specified in the default by ICRP so that our
8 dose reconstructions are in error for -- to
9 those organs that they've identified. But the
10 crux of the issue is -- you know, we first have
11 to establish is five-micron default acceptable
12 or not.

13 **DR. MELIUS:** Thank you, Jim. That helps.

14 **DR. ZIEMER:** Wanda Munn.

15 **MS. MUNN:** It would certainly be helpful to me
16 if we could articulate very specifically
17 exactly what we've been asked to do today. If
18 we as a Board could respond to those four, then
19 perhaps we would have a -- we did say four,
20 didn't we? Then perhaps we would have a better
21 grasp of how much further this rather iterative
22 process has to go on. There's significant
23 concern, and I think justifiably so, that we
24 will never have perfect information. We will
25 have to decide when we have adequate

1 information to pursue in as fair a manner as
2 possible. So perhaps we could start with
3 articulating those four.

4 **DR. ZIEMER:** Let me identify the four, and it
5 may be that you'll want to cogitate on these
6 further this evening and deliberate more
7 tomorrow, but the first of them -- I'm looking
8 now at the narrative of Dr. Neton's
9 presentation, not the power point part. I
10 believe the first one is on page 6, the second
11 paragraph. That is the issue of the -- the air
12 sampling distributions. It's the triangular
13 distribution versus the lognormal distribution
14 issue and whether or not their selection of the
15 95th percentile, I believe on the triangular,
16 adequately reflects the upper limit of
17 exposures for the workers. That's -- that's
18 the first one.

19 And what they've said is NIOSH is interested in
20 hearing the Board's thoughts on this issue.
21 The second one is near the bottom --

22 **DR. NETON:** Dr. Ziemer, could I just interrupt
23 one second, please?

24 **DR. ZIEMER:** Yes.

25 **DR. NETON:** It really wasn't on the triangular.

1 It was on the use of the lognormal
2 distribution.

3 **DR. ZIEMER:** Use of the lognormal, but it's
4 under the discussion of the triangular, yes.
5 And then the second one is at the bottom of the
6 page, and that is the selection of the -- the
7 default inhalation mode. This has to do with
8 the mouth/nose breathing issue. It's
9 articulated at -- in the last paragraph of page
10 6. And again, the last sentence says (reading)
11 If the Board believes that the default
12 inhalation mode for workers at Bethlehem Steel
13 should be habitual mouth breathing rather than
14 the default values recommended by ICRP, NIOSH
15 will reconsider this position.
16 So that would be the second issue.
17 The third one is set forth on page 8, the
18 second paragraph. Toward the end of the
19 paragraph it says NIOSH believes the site
20 profile adequately and appropriately addresses
21 the particle size and deposition properties of
22 uranium aerosols at Bethlehem Steel. NIOSH is
23 interested in hearing the Board's thoughts on
24 this issue and is willing to reconsider our
25 position based on the Board's recommendation.

1 This is the issue Jim was just talking about, I
2 believe, is the five micron default issue, and
3 the possibility of higher doses from smaller
4 particle size.

5 Let me ask one clarification there, 'cause I
6 don't recall, in the SC&A were -- was SC&A --
7 were you talking about a -- was it a .1 micron
8 monodisperse or was it -- what was the size?

9 **DR. MAURO:** No, I -- in that case the point we
10 were making is that one micron AMAD as opposed
11 to five micron AMAD could make a difference.
12 And a little bit more rationale for the basis
13 for selecting a five micron AMAD would have
14 been appreciated. We recognize that ICRP does
15 recommend as a default value, lacking better
16 information, going with a five micron AMAD.
17 But at the same time does not rule out using
18 some smaller value if in fact it's appropriate.
19 So I guess the point we were making there is
20 we'd like to hear a little bit more about that.
21 And now Jim has pointed out that there are some
22 data, which is very interesting, where he's
23 saying that he sees 2.5 micron AMAD particles
24 and -- and I have to -- I -- since this is a
25 subject near and dear to my heart that I -- I'm

1 familiar with and given the density of the
2 particle, we're talking about a two-micron in
3 diameter particle, then when you factor in the
4 density of the material, which could be five,
5 seven grams per centimeter cubed, all of a
6 sudden we're talking about an AMAD that's above
7 five. So I would say, on first blush -- now
8 I'm almost like going back on what I said
9 before, but it happens to be a subject I'm
10 familiar with, I would very much like to see
11 the information Jim has regarding the particle
12 size, AMAD, and given the fact that we're
13 talking about densities that are fairly high,
14 his arguments about five micron AMAD becomes
15 very compelling.

16 **DR. ZIEMER:** Okay, let me -- let me see if I
17 understand now. On the five micron -- Jim,
18 NIOSH is talking about an AMAD, aerodynamic
19 mean diameter, which takes into consideration
20 the density, does it not, of the particle?

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

22 **DR. ZIEMER:** Yes, okay. So -- so the only --
23 the only differential here is what one would
24 select for the mean aerodynamic diameter and
25 both assuming at lognormal distribution. You -

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DR. MAURO: I'd go as far as to say that this happens to be one of the ones where I think we got closure. This happens to be one of the issues that I think -- you know, not -- assuming that we have the data --

DR. ZIEMER: Be careful what you say.

DR. MAURO: -- we have -- we have closure that is -- I think the -- given that the type of evidence that Jim has just made re-- is there, what I would say is that five micron AMAD as the default value for this particular exposure scenario we're talking about certainly seems to be appropriate and reasonable based on the information Jim just presented.

I take the risk of saying that with my colleagues sitting to my left. I'm cert-- my sense is, though, that since this is a subject that I -- sort of out in front of, I -- I will take the liberty to say that I think we've got one here that we could put in the check column. Thank you.

DR. ZIEMER: And the main point, though, was to justify the selection of it then. Yeah, thank you very much.

1 And then the -- on page 10 -- on page 10,
2 paragraph three, NIOSH does not believe it's
3 necessary to adjust the external exposure
4 values in the site profile. NIOSH is
5 interested in hearing the opinion of the Board
6 on this issue.

7 So I believe, Dr. Mauro, those are the items
8 that NIOSH has asked for specific feedback on.
9 I think what I'm -- what I would like to do at
10 this time, if the Board's agreeable, is allow
11 you some time to think about these things. We
12 have other work sessions later in the week. I
13 want to move on to the public comment session,
14 unless Dr. Roessler, you have a pressing
15 comment before we do that?

16 **DR. ROESSLER:** I think so, because we just saw
17 how easily one of these was handled by Dr.
18 Mauro addressing this specific point that we
19 were going to address. I find it really
20 difficult to cogitate about the other ones,
21 even overnight or over another day, without
22 having some sort of general comments or
23 instruction or guidance from SC&A. After all,
24 they're our subcontractor. I think they
25 deserve to give us --

1 **DR. ZIEMER:** Well, and one of --

2 **DR. ROESSLER:** -- some guidance on --

3 **DR. ZIEMER:** -- the possible responses would be
4 not necessarily to resolve the issue at this
5 meeting, but to instruct NIOSH and our
6 contractor as to how they should go forward,
7 and that's another thing you can cogitate on.
8 I like to use that Indiana phrase, cogitate.
9 Okay? Is that an Indiana phrase? It sounds
10 like it, doesn't it? Hoosiers. I can say
11 that, I'm one.

12 **GENERAL PUBLIC COMMENT**

13 Now we have a public comment period coming up.
14 Before we actually have public comment, let me
15 introduce some folks who are here, and I hope
16 we don't overlook anyone we should, and I'll
17 ask them just to stand so they can be
18 recognized -- and I hope I pronounce names
19 correctly. Tom Horgan with Senator Bond's
20 office -- Tom, are you still here? There's
21 Tom. Thank you. Debbie Dornfeld with Senator
22 Talent's office -- Debbie here? Thank you, in
23 the back. Jim Mitus*, is it, Mitus, from
24 Representative Todd Aiken's office. Jim, do we
25 have that correct?

1 **MR. MITUS:** That's correct.

2 **DR. ZIEMER:** Thank you. Welcome, all of you.
3 Also here this afternoon we're pleased to have
4 Mayor Graham, who is Mayor of the City of
5 O'Fallon, Illinois, and he's requested -- been
6 requested to attend and would like to address
7 the group during the public comment period, so
8 we'd be pleased to hear from Mayor Graham. Are
9 you here, sir? Thank you. Please approach the
10 mike.

11 **MAYOR GRAHAM:** Thank you very much for helping
12 me out. I have a City Council meeting tonight,
13 but I had some comments. First I'm going to
14 start by showing you my correspondence over the
15 last two years dealing with my parents. I grew
16 up on the Iowa Army Ammunition Plant in
17 Burlington, Iowa. I lived there from 1948
18 through 1966 when I graduated from the
19 University of Iowa. I want to thank the
20 committee and especially Senator Harkin and
21 Senator Bond for the work they are doing and
22 making me informed.

23 I just am going to be fairly brief. Both of my
24 parents worked at the plant. I worked at the
25 plant. My uncle and aunt worked at the plant.

1 I have a brother and sister that worked out
2 there. My father worked on Line 1, which was
3 the top atomic energy line, security clearance,
4 that -- for those 30 years. My mother worked
5 on various lines.

6 What I'm trying to get at is there was a lot of
7 exposure out there. My parents would have
8 taken a job at that plant at that time even if
9 they'd known the exposure, because that's --
10 that's how it worked. They grew up during the
11 Depression. They came up and wanted to work.
12 But what we're upset about is the process, and
13 I know you're trying to get through that. It's
14 very disconcerting to have thousands of people
15 -- I grew up there, I know many of the people
16 that worked there. I knew many of the people
17 that have passed on. To have to go back and
18 reconstruct a medical history back to 1948,
19 provide that information, mail it in and then
20 receive response after response back saying
21 that at that particular plant they cannot
22 provide the exposure for those people. They
23 don't have any records. So it's very
24 difficult, as I talk to people in my home town
25 and they're saying well, here we are. We

1 provided it.

2 We can prove that these people died of cancer,
3 which is one of the criteria. But at the same
4 time, on the -- and I'm going to say the
5 government, and as part of the government, I
6 understand; it's frustrating for both parties.
7 Okay? But the reconstruction of the exposure
8 cannot be done. Many of these people -- I
9 actually worked out there on these lines --
10 would be yellow. They would turn yellow from
11 the products we handled -- their face, their
12 hands -- and none of this has been explained to
13 this date.

14 In addition to that, actually growing up on
15 that ordnance plant -- and it was a wonderful
16 place to live, I'll tell you that now. But in
17 my back yard I could see the test shells that
18 they fired out there. Some of them did contain
19 test traces of radioactivity. Everyone at that
20 ordnance plant ate from the gardens. Now we
21 all have heard of Chernobyl and we know that
22 there have been medical problems from the wind-
23 carried radioactivity in those areas. I've
24 requested on many occasions the -- I think
25 they've done soil samples. None of those are

1 forthcoming.

2 My point is is that all these people have been
3 hurt. They don't want anything free. We don't
4 really -- you know, I'll live fine. My parents
5 are dead. That isn't the point. What they're
6 upset about and what you need to understand is
7 that it took all of those years till 2000 till
8 this was disclosed to them, all these medical
9 problems they've had for all these years.

10 And I appreciate what you're doing, but when
11 they send these form letters out that this is
12 full of, I think that I am of average
13 intelligence. Now some people would argue
14 because I'm a mayor, so I'll just tell you that
15 now, but I don't think the average person can
16 go through this process and file most of these
17 claim forms, even though you've provided the
18 800 numbers. You call the 800 numbers, many of
19 the people are part-time. So if you call for
20 Mary Ann today or Tom tomorrow, they'll tell
21 you well, they will be working next Thursday.
22 So it's just -- the process needs to be cleaned
23 up. The program needs to be -- if you're going
24 to send out and say look, if there's cancer
25 involved, you're going to be paid -- and I have

1 several letters that say that -- then if they
2 prove cancer, you know people are upset, just
3 give them the rules, the criteria, and let's
4 move forward. People deserve answers and I
5 think that's what you're doing. Thank you for
6 your time today, sir.

7 **DR. ZIEMER:** And thank you, Mr. Mayor, for
8 being with us today.

9 We're going to proceed with the public comment
10 period. I would like to point out if you do
11 wish to make comments that if you have
12 particular issues that deal with your own --
13 with a case, if you're a claimant or relative
14 of a claimant, we -- we would ask that you not
15 ask this Board to, in the public forum, deal
16 with your case. You're welcome to share with
17 us your story, but if you have particular
18 issues, be sure to see one of the NIOSH staff
19 people so that they can follow up with you
20 after the meeting. You know, if you want to
21 know where some document is or what has to
22 happen next in particular cases. We're more --
23 this Board is here to hear your comments, but
24 we are not in a position to answer, in the
25 public forum, questions about particular cases,

1 is -- I hope you all understand that situation.
2 So we're going to proceed --

3 **UNIDENTIFIED:** Excuse me, there was a lot of
4 people that came in on a bus and what time does
5 that bus leave, 6:30?

6 **DR. ZIEMER:** The question is, there's people
7 that have come in on a bus?

8 **UNIDENTIFIED:** Okay, we were wondering about
9 the time.

10 **DR. ZIEMER:** Let me tell you how many names I
11 have here. I have -- I have 27 people who have
12 asked to address the assembly, and we -- we
13 have -- we have set aside an hour and I think
14 we can go over that if we need to, you know, go
15 a little longer than that, but you need -- if
16 you are addressing the assembly, you need to be
17 fair to your fellow addressees and -- and save
18 time for them, too, so -- and --

19 **MS. BROCK:** Dr. Ziemer --

20 **DR. ZIEMER:** Denise, yes.

21 **MS. BROCK:** I was just curious if anyone would
22 mind if the people that rode in on a bus -- we
23 provided some public transportation, but it
24 does leave at a certain time. I don't know if
25 that would be 6:00 or 6:30. If anyone would

1 mind if those people went maybe first or if we
2 started running over before the bus -- so the
3 bus doesn't leave without them, if they could
4 make comment?

5 **DR. ZIEMER:** That would be fine if --

6 **MS. BROCK:** I think there's only ten, so --

7 **DR. ZIEMER:** If those that are the bus group,
8 if you would take it upon yourselves to come to
9 the mike first -- who are the bus -- the folks
10 on the bus? Would one of you just start -- you
11 need to indicate who you are and then
12 sequentially just come to the mike.

13 The Chair must excuse himself briefly, and I
14 will be back. It's not that I don't want to
15 hear what you say, but the Chair must take a
16 comfort break. Lew, if you will --

17 **DR. WADE:** Sure.

18 **MS. DANIEL:** My name is Gwen Daniel and I'm
19 speaking for my husband, Carl Daniel, who
20 worked at the uranium division of Mallinckrodt
21 from 1954 to '66, and then he worked downtown
22 at the Mallinckrodt -- at the Mallinckrodt
23 plant in the plants, and he died of cancer four
24 years ago, of lung cancer.

25 I myself -- I know this isn't brought up, but I

1 went to school out at the Weldon Spring School
2 during the '50's, and a lot of my classmates
3 have died of cancer and I -- myself included.
4 I haven't died yet, but I have had mouth cancer
5 and had to have part of my jawbone removed, but
6 apparently there's a lot of residual
7 contamination out there and was during the
8 '50's. That's all.

9 **DR. WADE:** Could I have your name again,
10 please? I'm sorry, ma'am. Your name?

11 **MS. DANIEL:** Gwen Daniel.

12 **DR. WADE:** Thank you. Other bus riders? Okay,
13 let me get the -- let's just go down the list
14 then according to the time that you signed in.
15 The next name that I have is Fran Ryan. Is
16 Fran with us?

17 **MS. STROPES*:** This -- this is Fran Ryan, my
18 sister, and I'm reading her comments.
19 Three of my -- my name is Fran Ryan, and mine
20 is Flo Stropes, and I'm the elder sibling of
21 our father, Frederick Summers*, who worked at
22 Mallinckrodt in the '30's, '40's, '50's and
23 '60's. He was a very excellent employee.
24 Three of my family members worked at
25 Mallinckrodt. Back in 1943 Mallinckrodt

1 workers were told they were performing a
2 partic-- a patriotic duty. Unfortunately,
3 without their knowledge or consent, they were
4 being exposed to unacceptable levels of
5 radiation. This has been compared to human
6 experimentation that took place in
7 concentration camps during World War II.
8 Many of these people helped make the atomic
9 bombs that ended World War II. And later,
10 nuclear weapons that protected America during
11 the Cold War. In 2000 the compensation program
12 was set up to help workers and their survivors.
13 The difficulty arises in proceeding -- in
14 providing the burden of proof. The reason for
15 it is the company records are missing or
16 destroyed, and doctors are retired or dead. In
17 2005 Senator Christopher Bond introduced a bill
18 which would help ease the burden of proof for
19 former workers at Mallinckrodt Chemical
20 company. Senator Bond's measure was
21 unanimously approved by the Senate. We are
22 forever grateful to Senator Bond for all of his
23 assistance.

24 When I was 22 I watched my father, Fred
25 Summers, die. I took care of him at night

1 after I came home from work. I gave him pain
2 shots, which is one of the hardest things I've
3 ever done. Then some six years later I watched
4 my sister Annie -- she worked at Weldon
5 Springs, as well as Destrehan -- become sick.
6 I will never forget the Saturday morning
7 walking in with my mother, and my three-year-
8 old nephew running up to us saying "I can't
9 wake Mommy. I even tried waking her with my
10 drum." And then his 16-year-old sister coming
11 in and saying "I think Mom is gone." My sister
12 should not have died that young and left these
13 young kids. Even they were never the same
14 again.

15 Since some of the reports came out I've had to
16 relive these memories again, causing great pain
17 once more. The injustice of course in my
18 sister Annie's case is that if the reports
19 would have been public, she wouldn't have --
20 she would have -- wouldn't have lived but her
21 suffering could have been made eased more.

22 I have watched my other sister, Delores
23 Stuckenschneider, suffer through cancer twice
24 and always live with the fear that it will come
25 back. She worked also at Weldon Springs and

1 Destrehan.

2 After 9/11 President Bush was quick to offer

3 the survivors \$1 million. America didn't cause

4 9/11. It was caused by terrorists from Saudi

5 Arabia. This proves that we are a generous

6 country. In contrast, the atomic energy

7 workers have been waiting five years for

8 compensation. In fact, some have died waiting.

9 They are made to feel like criminals in a court

10 of law. They are waiting for compensation for

11 something that was caused by their own

12 government, without their knowledge or consent.

13 I would suggest that while you are in town you

14 visit Weldon Springs and see for yourself what

15 a toxic waste site it is. None of us here,

16 myself included, would have -- and myself, my

17 sister -- would have been here if it hadn't

18 been for my father and those who worked with

19 him at -- in the '40's. He helped to make the

20 bomb components that ended World War II. What

21 would have happened had they not done that?

22 And let's not forget the men who worked in the

23 '50's and helped to win the Cold War.

24 When I was sitting with my dad taking care of

25 him at the end, he kept saying "bill of

1 lading," and it stuck in my mind and all those
2 years it never made sense until those reports
3 came out. And I think maybe he wanted to tell
4 me this. I don't know, I can only guess. What
5 I do know is that my father was one of the
6 great generations of Americans. He worked at
7 Mallinckrodt's in the '40's, '50's and '60's.
8 He taught his five children a lot about
9 responsibility, loyalty and love. The atomic
10 energy workers have shown they're patriots.
11 Now is the time for you to show them you
12 appreciate what they did for America.
13 I did not write any comments, but I'd like to
14 make a few. I want to know who -- who was
15 running the show at that time? Why weren't
16 these protected with safety measures? I'm a
17 nurse and I've been a nurse over 60 years. We
18 have lots of ways that we protect thing, you
19 know, that -- that you're -- that you're
20 exposed to. If -- if that had been done, would
21 you be here today or would we be here today?

22 **DR. WADE:** Thank you both very much.

23 **DR. ZIEMER:** Thank you. Who's next? We still
24 have more people from the bus?

25 **DR. WADE:** No, we have no bus people.

1 **DR. ZIEMER:** No more bus people, okay. Dan
2 McKeel? Dan is from Washington University St.
3 Louis.

4 **DR. MCKEEL:** Yes, sir. Good afternoon. I'm a
5 pathologist at Washington University, and I was
6 also here in October at the 2003 meeting. But
7 today I'd like to briefly address just three
8 aspects of the Mallinckrodt Special Exposure
9 Cohort petition that you'll hear about tomorrow
10 and discuss.

11 The first is that I really am quite puzzled and
12 very disappointed that the Mallinckrodt SEC
13 that we're going to hear about appears not to
14 cover MCW uranium division workers who worked
15 for the same company but did not work at the
16 Destrehan plants 2, 4, 6 or 7 from 1942 -- from
17 '57, but who did work at Weldon Spring and/or
18 Hematite. And I also -- and those people
19 worked in the '50's, and then this also does
20 not cover the construction workers, the
21 truckers who worked for MCW uranium division
22 for multiple agencies, the Atomic Energy
23 Commission, ERDA, Department of Energy, at any
24 of those three sites covered at any period.
25 And I think this is very unfair and very

1 unjust.

2 Now perhaps that's going to be done in the
3 future, but I really think it should be done
4 with this proposal.

5 I also believe that the Mallinckrodt site
6 profile should have included and should include
7 in the future multiple technical basis
8 documents, not just the one for the Destrehan
9 Street facility, but also for Weldon Spring and
10 Hematite. The latter two components have not
11 appeared on the NIOSH docket. I did see one
12 paper today that said that it was being
13 prepared for the end of April this year for
14 Weldon Spring. Nor have the site profiles been
15 posted on the OCAS/NIOSH web site.

16 I was made aware that there was a site profile
17 meeting last week at the Weldon Spring
18 Superfund interpretive site. And I guess my
19 comment is that if these kind of meetings are
20 being held about the Weldon Spring site, or
21 Hematite, that they should be advertised and
22 that all the stakeholders should know about
23 them. And I wonder why this meeting wasn't
24 made -- made known-about.

25 Last time I addressed the committee I was

1 concerned about two articles by ORAU'S Dr.
2 Elizabeth DuPree-Ellis, and I questioned then
3 why those two documents were not included in
4 the Mallinckrodt site profile. I definitely
5 think they should be included in this new Rev.
6 1 of the Mallinckrodt Technical Basis Document
7 that I understand was extensively discussed
8 last month at the TBD review held at the
9 Cincinnati NIOSH office. I've attached these
10 two copies this time so that if you wish to
11 include them, you may do that.

12 But I am struck by the fact that SC&A, who
13 prepared the draft evaluations of the SEC
14 petition, found that NIOSH was unable to do
15 adequate MCW dose reconstructions for 1942
16 through '48, and that they came up with the
17 interesting conclusion, I thought, that the --
18 although they had dose data from 1949 to '57,
19 they had to ask the Board for advice because
20 they questioned the validity of the data. And
21 these kind of considerations tell me that my
22 fall 2003 concerns about missing and inadequate
23 MCW dose data in the ORAU scientific papers
24 were quite on target.

25 For that reason, and others, I believe that the

1 entire MCW cohort, '42 to '57 inclusive, should
2 be awarded SEC status and receive compensation
3 without further fruitless attempts to do
4 accurate dose reconstructions with flawed or
5 missing radiation dose data.
6 My final point is a brief procedural concern,
7 and that is that on Friday, I believe,
8 approximately 570 new pages of documents
9 pertinent to the SEC petition for Mallinckrodt
10 were placed on the -- on your web site, just a
11 few days before this meeting today. There was
12 a disclaimer that the draft SEC evaluation by
13 SC&A had not been even reviewed by the Advisory
14 Board. This late posting was reminiscent of
15 what happened before the -- before the -- the
16 2003 meeting when the TBD was approved and
17 posted on the NIOSH web site on October 24th,
18 just four days prior to the 28th/29th meeting.
19 And I would simply suggest that this time
20 period is insufficient to allow careful
21 consideration of these reports by either the
22 public or the Board.
23 Anyway, thank you very much. I appreciate the
24 work you're doing. I do appreciate your
25 letting us comment.

1 **DR. ZIEMER:** Thank you, Dr. McKeel. The Chair
2 would like to comment -- in terms of the
3 posting of the SC&A reports -- that at the time
4 of the Bethlehem Steel report the Board was
5 operating under a policy that we would not post
6 these in advance of the Board meeting. This
7 was objected to greatly by the Bethlehem Steel
8 people, some of whom are here in the audience
9 today, and the Board revised its policy to make
10 the document, in its draft form, available to
11 everyone at the same time it became available
12 to the Board. That is -- that is why it was on
13 the site and, in the interest of public
14 transparency, the document becomes available to
15 everyone at the same time it becomes available
16 to the Board. So I hope you understand why
17 that is. We had not reviewed it yet, either,
18 and that's why the disclaimer. It's the
19 report. We're glad to have input from you or
20 anyone else on the report, but that's the
21 reason. We want to make everything available
22 that we have for our deliberations.

23 Let me continue now. We have Mr. Ed Walker.
24 Ed actually is a Bethlehem person. Ed?

25 **MR. WALKER:** Thank you, Doctor. It's a

1 pleasure seeing you all again. I want to thank
2 you for the opportunity to talk in here and
3 from what I've heard there's a lot of people
4 here that have almost the same issues that we
5 have up at Bethlehem Steel. So I've cut my
6 speech in half, which I'm sure'll make y'all
7 happy, but there -- there are a few issues and
8 -- and maybe tomorrow, so if there's a public
9 speaking period I may have a few more.

10 But really in respect for these people that are
11 here -- I'm with Bethlehem Steel Group and I
12 have cancer and I'm a claimant from Buffalo,
13 New York. And I put my claim in in 2001 and
14 I've been denied a few times. And the -- I'm
15 here kind of to talk today on the site profile
16 and the size of Simonds Saw facility, which
17 they used. And I'd like to ask Dr. Neton a
18 question. What size was the Simonds Saw
19 facility, do you know, where they actually
20 worked on uranium? Do you have any idea?

21 **DR. NETON:** (Off microphone) The size of the
22 (unintelligible) inch rolling mill where we got
23 the high air samples?

24 **MR. WALKER:** Yeah, where the two rollers are
25 at.

1 **DR. ZIEMER:** For the record, I think -- we
2 can't hear Dr. Neton's response.

3 **MR. WALKER:** Oh, okay.

4 **DR. ZIEMER:** If you do want to respond --

5 **MR. WALKER:** It's kind -- it's kind of
6 important or I wouldn't ask.

7 **DR. NETON:** Yeah, I don't have the exact
8 dimensions with me, but I'm sure we can obtain
9 that. But as indicated in the drawing, there
10 are -- there were two rolling mills positioned
11 fairly next to each other, and a furnace and
12 then a quenching table and a weighing station,
13 but I don't -- I don't know the exact
14 dimensions of that area of the facility.

15 **MR. WALKER:** Okay. I -- I went out there and
16 visited the site. I took my wife for a ride
17 one day, and we only live about an hour from
18 it, and I couldn't get to it, either. It was
19 blocked off, but I could see from a distance,
20 and I would say the facility was -- probably
21 wasn't much further than here from the wall in
22 front of us and possibly to the side of us. It
23 was just a section of a plant that had two
24 rollers in it and it was on a mud floor and it
25 had a platform so they could slide their

1 uranium or steel, whatever they had, by hand --
2 they put this up on the platform. And the
3 reason I'm telling you the size of this
4 building is because Bethlehem Steel building
5 that we worked in uranium in was about 1,000
6 feet long. It was around 30, 40 feet high and
7 about -- I'm -- and this I'm kind of guessing
8 at, I -- I have talked to people but it's kind
9 of iffy; some say 70 feet wide, some say 50,
10 but it was a pretty wide building. But after
11 these bars that were rolled with uranium, which
12 were a continuous rolling, as Jim Neton said,
13 they would go onto a rolling table, and that
14 was a series of rollers.
15 Now this rolling table that I'm referring to,
16 and I got this information from people that
17 worked there. I was there myself. Some of
18 them were more familiar, could give me a more
19 accurate description. I got drawings at home.
20 What actually happened, they had rollers and
21 shears. This -- this rolling table alone,
22 after it went through this six stands of
23 uranium, is 375 feet long. To put that in
24 perspective, that's about four times the length
25 of this building. It was around 50 feet wide,

1 so I'm guessing maybe half -- this is just the
2 roller bed inside the building. I'm guessing a
3 little -- little wider than here -- here to the
4 side, and it was all rollers. As the steel
5 come off these hot -- out of these hot stands,
6 it would roll out. There was dogs -- what we
7 called dogs that would come up and -- this was
8 all rolling, all the dust falling down, and it
9 would put the steel aside and store it till
10 they want, then they would drop it in and roll
11 it down again.

12 Now we're told and Mr. Neton said that -- I've
13 seen the reports, too, that says that this
14 facility was cleaned up at the end of every
15 rolling so it would be ready for steel rolling.
16 Okay.

17 Underneath this rolling bed, which was about
18 three -- three feet off the floor, was a
19 basement. And in this basement -- it's eight
20 foot tall, and all these gears and that that
21 roll -- that move these bars from one side on
22 this -- on this cooling table was operating to
23 move this around. It was full of nothing but
24 gears, shafts, chains and they had to clean
25 that out periodically. They had five men to

1 clean that out.

2 Now if you read the documentation, it says that

3 if they finished their rolling by the next day

4 when the shift came in, this place would be

5 clean of uranium. The crew was usually five

6 men, if everybody showed up for work. Most of

7 the rollings were done on a Sunday. I cannot

8 phantom (sic) -- I worked in the plant myself,

9 I worked on the furnaces, I cannot phantom

10 (sic) that place being anywhere nears clean,

11 knowing how some of the workers worked down

12 there. There -- there wouldn't be a chance --

13 any equipment you took in there, vacuum cleaner

14 or anything, to clean up that area down below.

15 That's a full cellar underneath this whole bed

16 four times as long -- and I hope you understand

17 my concern. There's -- this drops down. All

18 the scab -- scaling fall off these rollers that

19 goes down. This was never cleaned up. We

20 can't go there today because the government

21 went in and filled it full of concrete. That

22 whole lower level, the whole floor that -- the

23 place was filled in. So there are no records

24 there. There's no way of getting them.

25 And then the other problem I had -- and this

1 isn't taken in consideration in the technical
2 base data. There's -- there's no allowance
3 taken, no air samples taken down there,
4 nothing. And it was just virtually impossible.
5 There's wires, there's electric motors. That's
6 all buried in concrete. So no readings could
7 be taken, no readings were taken.
8 Now these guys that worked down there, it
9 wasn't (unintelligible) standing next to a bar
10 going by you for ten hours. This was every
11 night that they went in. So I don't believe
12 you can get a dose construction (sic) out of
13 something like that.
14 Then constantly throughout the documents it
15 talks about machining and grinding. What's
16 worse than machining and grinding on uranium?
17 I've talked to men that worked there. There's
18 billet preparation before they could even roll
19 these things. They would be going through
20 grinders and -- like 50 tons. There's never no
21 air samples taken where this grinding was done.
22 And you have to remember, Bethlehem Steel had
23 no equipment at all to protect themselves,
24 either to breathe or eat the stuff, 'cause it
25 was in the air.

1 And we're talking about the air samples, and
2 this is not a lie. I was 18 years old when I
3 worked there, and I would go in there and every
4 man at the end of the shift -- every man that
5 come out of there, when you would cough it was
6 like licorice. You would cough for maybe 20
7 minutes when you come out of there with black
8 stuff. And I'm sure there's ore dust in there.
9 I mean I'm not going to argue that. A lot of
10 it -- may be more than that, but we had no idea
11 how much uranium was mixed in with it.
12 Every -- every man in my locker room I can
13 remember as a kid, and I can still remember,
14 just got brought up to me, in the corner of
15 their eye was black, a dot, like sleep in your
16 eye. They'd come back from the job carrying
17 their tool bag, just -- just like somebody had
18 taken chalk and covered their face black. And
19 this was every day. And again, some of it --
20 and probably a lot of it -- was ore dust, but
21 what about the people that worked in uranium?
22 So -- and my contention is this kind of stuff
23 wasn't monitored.
24 So the billet preparation room where they --
25 when they got these billets, they had to prep

1 them, and this is mentioned -- this isn't
2 something that it's my little story. This is
3 mentioned in the declassified documentation I
4 got. There's nothing mentioned in the dose
5 reconstruction at all about any air samples
6 taken at the billet preparation. If you're
7 going to prep 50 ton of steel, that wasn't done
8 ten minutes before you -- you started up the
9 rollers. That had to be done maybe days
10 before.

11 There's so many uncertainties in the Bethlehem
12 Steel plant that I don't know how you could
13 complete a dose reconstruction, you can modify
14 it all you want. And the one bad thing about
15 it is, it was last June -- we -- I've been
16 getting denied 15 months I've been denied on a
17 technical base document that supposedly had a
18 site profile on it. Last June we had a meeting
19 and I was told -- and it's documented -- that
20 that's the first time anybody ever spoke to
21 anybody worked at Bethlehem Steel. I got a
22 crew of 15 -- around 15 people together. We
23 had a meeting. We explained this kind of stuff
24 -- not quite to this detail that I have now
25 because you constantly learn every day -- but

1 that's the first time that NIOSH ever spoke to
2 -- I was being denied for 15 months on a
3 technical base document that had none of this
4 stuff in it.
5 Not only that, I ate that stuff. And I had a
6 display out at that meeting. I sat there and I
7 ate my sandwiches and stuff. It was never
8 mentioned in the technical base document. Then
9 all of a sudden, we -- we redone the technical
10 base document and it was included. Why wasn't
11 it included when the document was first put out
12 15 months earlier because reports from Simonds
13 Saw said that you can't get a proper dose
14 reconstruction without ingestion. Now if you
15 had had a document from Simonds Saw and you
16 were reading it and you based our site profile
17 on it, you would have -- have to have seen it.
18 So -- well, I've used up my own time, so at
19 that -- our group and the group I represent
20 from Buffalo just would -- maybe if you can get
21 me an answer before I leave and go back to
22 Buffalo. Just how long do we have to wait?
23 We've been waiting -- shouldn't this stuff been
24 done when the program started? Here we are
25 four years later and we've gotten no place at

1 this point. Until the audit came out and we
2 got some people digging in and finding out this
3 information, it meant nothing, what I said or
4 anybody said went on. We were just -- we were
5 cut right off. And I think this is a wrong in
6 the most fundamental value in American justice,
7 really, for the Bethlehem workers and for these
8 people down here. Thank you.

9 **DR. ZIEMER:** Okay. Thank you, Ed. Let's see,
10 Brown -- is it --

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

13 **DR. ZIEMER:** I'm sorry? Is it Rena -- Rena
14 Brown? I'm -- I'm having trouble reading the
15 writing here.

16 **UNIDENTIFIED:** (Off microphone)
17 (Unintelligible)

18 **DR. ZIEMER:** Huh?

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

21 **DR. ZIEMER:** Oh, okay. Tom?

22 **UNIDENTIFIED:** (Off microphone) I pass.

23 **DR. ZIEMER:** Oh, okay. Thank you. Delores
24 Stuckens?

25 **MS. STUCKENSCHNEIDER*:** Stuckenschneider.

1 **DR. ZIEMER:** Stuckenschneider, okay. I didn't
2 go past the line here. Okay.

3 **MS. STUCKENSCHNEIDER:** I am Delores
4 Stuckenschneider, and first I would like to
5 thank you for coming to St. Louis again. I'm a
6 former employee of Mallinckrodt Chemical Works
7 and worked at the Destrehan and Weldon Springs
8 plant for nine years. Before I read my
9 statement, I want to thank Senator Bond for all
10 the help he's giving -- is trying to give us to
11 obtain this compensation. I really appreciate
12 it. And my heartfelt thanks to Denise Brock,
13 who's worked so hard for all of us for the last
14 several years.

15 The first time I heard about the compensation
16 was in the St. Louis Post Dispatch on January
17 12, 2001, four years ago. Former Secretary of
18 Energy Bill Richardson said, quote, This
19 compensation that has bipartisan approval is
20 for workers who were sickened or died from
21 exposure to radiation or other hazardous
22 substances while working on nuclear weapons.
23 He added, quote, This is the law. It is an
24 entitlement program not dependent on
25 appropriations, and this is going to happen.

1 He also stated, quote, Workers need to contact
2 us, but the burden of proof is on the
3 government, not the workers. We will help
4 workers determine their eligibility.

5 But four years later, we're still waiting.
6 When I read the article about the reason for
7 the compensation, I was shocked. Then it
8 turned to anger and disappointment that my own
9 government has put me and others in harm's way,
10 without our knowledge or consent. I couldn't
11 believe it. I lost a father and a sister
12 because of this.

13 I'm having trouble seeing today, too.

14 I attended the first meeting held here in St.
15 Louis at the Millennium Hotel July the 26th,
16 2001. There were representatives from the
17 Department of Energy and Department of Labor
18 present. I understood them to say that they
19 would be able to get our employment records,
20 medical records, and even records from
21 insurance companies on medical bills we paid
22 years ago. When I sent in my application it
23 said to enclose employment records and medical
24 records.

25 After three requests by mail and phone,

1 Mallinckrodt sent me a certified letter stating
2 they had no record of me working for them. I
3 couldn't believe that, either.

4 Finally the Department of Labor sent to Social
5 Security for the dates. This delayed my
6 application from moving forward for several
7 months. With my application I sent the
8 surgeon's report, pathology report showing it
9 was a rare type of breast cancer, and X-ray
10 reports, all of which I thought was enough to
11 prove I had cancer. I was later informed I
12 needed a letter from my oncologist stating that
13 he administered chemotherapy to me after the
14 surgery. They also wanted to know what chemo
15 drugs he used for both cancers, and wanted the
16 stage of the lung metastasis.

17 My oncologist's secretary told me he said,
18 quote, They should know that a metastasis to
19 both lungs is stage four.

20 I understood the burden of proof would not be
21 on the workers, but it's getting to the point -
22 - oh, why bother. And I think if it had not
23 been for Denise Brock getting involved, a lot
24 of us would have given up.

25 After I graduated from high school I applied

1 and was accepted for a position at Mallinckrodt
2 Chemical Works. I was overjoyed, and when I
3 found out I would be working for the Atomic
4 Energy Commission, that made it even better. I
5 had just turned 18 years old, and I thought it
6 was so cool that I was going to be investigated
7 by the FBI and they were going to check my
8 school, family, friends and neighbors so I
9 could have a secret clearance to work there.
10 The pay was good, and I would be working in a
11 company my dad and sister worked at. How much
12 better could it get?

13 As I found out later, working there came with a
14 high price and we paid it. My dad and sister
15 are now deceased, in my opinion because of
16 their employment at Mallinckrodt. My sister
17 died at the age of 39, leaving two young
18 children, and my dad died at 68.

19 My dad worked at Mallinckrodt in the shipping
20 yard area at the main plant for 45 years, from
21 1917 to 1962. He died at age 68 of lung
22 cancer. My dad had no desire to retire at 65,
23 but was told he had to. Unless someone can
24 prove otherwise, I am convinced now that his
25 last X-rays at Mallinckrodt showed he had spots

1 on his lungs and this was the reason he was
2 made to retire. I have been stonewalled in my
3 attempt to get his medical records from the
4 Department of Energy under the Freedom of
5 Information Act.

6 While working at Mallinckrodt I don't remember
7 my dad taking sick days. He didn't believe in
8 them. And he never complained of feeling bad.
9 It was only after he retired that he told us he
10 didn't feel well. I have no medical training,
11 but I think I have heard lung cancer cannot be
12 detected on an X-ray for several years. If Dad
13 had known what he had had earlier, he had a
14 better chance of surviving. At 67 he went to
15 surgery, but the surgeon said the cancer had
16 traveled through his whole body, and he died
17 six months later.

18 I have heard from plant workers who said that
19 they knew they were taking part in making
20 atomic bombs, but they didn't know the dangers.
21 As I worked in the office, I had no idea this
22 was the ultimate goal, or that I was in any
23 danger. We were told not to discuss our job
24 with anyone, at work or at home.

25 I received 91 pages of my medical history at

1 Mallinckrodt. Now, since I've learned the
2 dangers we were exposed to, I realize why we
3 received a physical every year, and records
4 were kept of our sick days and the nature of
5 our illnesses. I was surprised that it
6 supposedly showed my radiation exposure from a
7 film badge. I didn't wear a film badge. I
8 wore an identification badge showing I had a Q
9 clearance, and I took it home every day. To
10 the best of my knowledge, I never turned it in.
11 A few times I would forget to bring my badge,
12 and since I worked in the plant area I had to
13 get a guest badge from the security guards.
14 This might be where they got the exposure
15 information. When I got this badge I did the
16 same as I did with my identification badge, and
17 that was to put it in my purse or pocket. I
18 took it out when I had to pass the security
19 guards, so this would be the only time it was
20 out in the open. It's hard for me to find
21 their claim monitoring my exposure credible.
22 I understand your purpose here today is to
23 focus on the Destrehan plant, and I hope you do
24 what is right for the workers here, and also at
25 Weldon Springs. I think many of us worked at

1 both plants, and since both plants were
2 Mallinckrodt Chemical Works, I can't understand
3 how or why the Destrehan plant site profile was
4 completed over a year ago and Weldon Springs
5 hasn't been started yet.

6 I submitted my application July 27th, 2001. It
7 wasn't until April, 2004 that my claim finally
8 made it to the last major process to
9 completion. I'd call and check on the status
10 every three or four months, and my last call
11 was January 3rd of this year. I was told by
12 someone at Oak Ridge Associated Universities
13 that they're waiting on a couple of documents
14 before they can begin the Weldon Spring site
15 profile, and it might be started in April of
16 2005. Then I have to wait who knows how long
17 to have a physicist examine it. Now I'm told
18 there's a conflict of interest and it's on
19 hold.

20 I don't think I'm the only one who feels that a
21 fair reconstruction dosage is impossible to get
22 on Weldon Spring employees. Unless you were
23 actually there in the plants, there's no way
24 one can tell or even guess what the employees
25 were exposed to and in what way. Weldon

1 Springs is now a seven-story-high tomb of
2 radioactive waste and is called a, quote,
3 tourist attraction, unquote. The fact that the
4 plant and all its contents were buried tells me
5 the whole area was contaminated and too
6 dangerous to move. If you have never seen it,
7 I hope all of you will take time to go and look
8 at it. And if you feel safe, maybe take the
9 steps to the top of the mound. Frankly, I
10 wouldn't trust it myself.

11 At Weldon Springs I was a clerk-typist in the
12 Plant 6 office. My office was connected to the
13 plant area by two inside doors. Plant workers
14 came in the office, as did office workers into
15 the plant. I recall putting on paper coverings
16 for my shoes, which I didn't always remember to
17 do. I don't recall worker -- plant workers
18 having a change of clothing when they came into
19 the office. Almost everything we worked with
20 or handled came directly from the plant area.
21 I would like to mention that a lady I worked
22 with in the same office at Destrehan and Weldon
23 Springs also had a rare type of breast cancer,
24 the same as I did. I am the first one in my
25 family to have breast cancer, and she told me

1 she was also the first in hers. Coincidence?

2 I don't think so.

3 I mentioned this before in a statement I read
4 when you were here in 2003 about all the dust
5 that accumulated on our desks daily, and I had
6 to walk outside between the plant and the main
7 building several times every other day to
8 relieve the switchboard operator. And like
9 some of the other women, the nylons I wore,
10 which were mandatory, were short-lived. They
11 would tear and shred. Mallinckrodt had start
12 reimbursing us for them, so they did know what
13 was causing this. The odor coming out of the
14 stacks was sometimes overwhelming, and it's
15 kind of scary now to know what we were inhaling
16 this all the time.

17 It's good that the government is finally
18 acknowledging what was done to the nuclear
19 workers and giving the compensation, but
20 unfortunately it can't bring back employees
21 that have died. It can't give back the years
22 of suffering cancer (unintelligible). I hope
23 the present government -- or anyone, for that
24 matter -- learns from this that no one has the
25 right to put anyone's health or lives in danger

1 without their knowledge and consent. It really
2 upsets me that we are waiting so long to
3 receive this compensation. This is surely
4 bureaucracy at its worst. It's sad that
5 several employees that I know of have died
6 since the compensation has started. I am
7 hoping that the present government will show
8 compassion and make restitution for the wrongs
9 that were made to the nuclear workers before
10 any more former workers pass away.

11 Last, but certainly not least, I would ask that
12 you pass the administrative SEC that Denise
13 Brock has petitioned. The SEC has got to cover
14 all the years that work was done for the Atomic
15 Energy Commission at Destrehan and Weldon
16 Springs. It really is the only fair and right
17 thing to do. Thanks for listening.

18 **DR. ZIEMER:** Thank you, Delores. Next I have
19 Anthony Windisch.

20 **MR. WINDISCH:** Given that much documentation
21 about radiation exposure has been lost or
22 destroyed, I can really appreciate the
23 difficult task that you, the committee, are
24 having with dose reconstruction. In trying to
25 do dose reconstruction, did you study the work

1 habits and the environment of those many
2 workers who have already died of cancer? And
3 would any person who worked in that same
4 environment have enough radiation to also die
5 of cancer? Please consider that in view of
6 lost or destroyed documentation. It's one
7 thing to play with graphs and everything else,
8 but us people out here who are waiting for a
9 decision by -- by your -- your people don't
10 really understand a lot of those charts and
11 what they mean.

12 The bottom line is that many of our coworkers
13 have already died of cancer, and we're
14 wondering if we have to be dead before we have
15 any chance of getting compensation. Thank you
16 for the job you're doing, and thank you for
17 your attention.

18 **DR. ZIEMER:** Thank you, Anthony. Next I have
19 Janet Davis. Or Janette, maybe, Janette Davis?
20 It appears to be Janette or Janet, Janette.

21 **MS. DAVIS:** Yeah, I wonder who put my name
22 down? Well, I'll say a little bit
23 (unintelligible).

24 **DR. ZIEMER:** One of your friends signed you up,
25 did they?

1 **MS. DAVIS:** Well, they might've. I did work
2 for Mallinckrodt since 1951 until 1959, and I
3 was down at Destrehan for about seven years, I
4 guess. And then I went out to Weldon Springs
5 for two years.

6 One thing that kind of irks me is about hearing
7 that things are lost. I worked in the lab. I
8 did a lot of testing on everything there was --
9 well, down at Plant 6. I was there when they
10 closed down because I couldn't get a ride out
11 to Weldon, and I tested everything that we
12 really knew what the radioactivity was there.
13 It was on record. Whatever -- whatever
14 happened to it, I don't know. And being's I
15 was the last one -- one of the last ones down
16 at Plant 6, I did a lot of testing out at
17 Weldon Springs, and we knew what the
18 radioactivity was out there. I don't know what
19 happened to the records.

20 And I was one of the dumb ones that I kept one
21 of my check stubs, and I know what my check
22 clock -- the clock card number was because I
23 was so proud of that check. I was making a
24 little bit more money than my husband was then,
25 and I kept it. And for some reason, I told my

1 family, keep this because I don't know -- if
2 something ever happens and I'm gone, that
3 you've got something that I worked there, and I
4 still have that stub today.

5 Mom told me way back, she said Janette, is --
6 is it really safe there, and I said well, sure,
7 Mom; they say it's low grade radiation, radio--
8 ation, and she said they remember people that
9 used to wet a little brush and they painted the
10 numbers on a watch and it was called radium,
11 and -- are you going to have any trouble with
12 this? No, I -- no trouble. Well, here I am.
13 I did a lot of work in the spec lab and, as I
14 say, I couldn't get a ride out to Weldon so I
15 was one of the last ones, and I learned every
16 job there was in the lab, and it was up to me
17 then whenever things came through that I would
18 work in that particular little area. I think I
19 will write down a lot of the things. Someone
20 said to me today, you know, you really ought to
21 write a lot of that down because a lot of those
22 people aren't here today, and I guess I'm
23 getting to be one of the last ones.
24 I've got a lot of things wrong with me, and you
25 know what, they can't find out why. And I'm

1 told well, you're going to have to live with
2 it, and I have been living with it for many
3 years. I couldn't go to work because I can't
4 drive. I have vertigo real bad, and -- been to
5 the doctors at Barnes, still get the answer,
6 can't help you, you'll have to live with it.
7 So I really don't know if any of that pertains
8 to this or not, but I'm here listening, and --
9 I did worry about Weldon, though, about things
10 getting into the wells. Maybe I'm saying
11 things I shouldn't say, but I'm being honest.
12 Oh, and I did -- and when I did work down at
13 Plant 6, one of the last jobs I had is -- they
14 had sewers, and I didn't know what the sewers
15 were. And they told me that they were the
16 holes, and they had like either bricks in them,
17 and I guess they flushed a lot of the -- would
18 we call it sludge or -- this liquid into these
19 sewers, and then it was my job at the very end
20 to test those before they were flushed into the
21 river. Well, one time I ran like the devil to
22 try to get somebody over me because boy, did I
23 have a high radium conte-- or uranium content.
24 And in those days -- oh, it was too late; it
25 was flushed. And I was told that -- that would

1 have been in the '50's -- about \$10,000. There
2 wasn't said -- too much said then that it was
3 the uranium that went in there, but -- I could
4 go on, just little things that I saw.
5 I saw the trucks pull out and the stuff would
6 be steaming that would be in the truck, and I
7 think back a lot about a lot of that. And that
8 was a hot spot then. That was hot in the north
9 -- in north St. Louis. I don't think people
10 realized what they were living around. And one
11 time we had a big tank blow up. We didn't know
12 what it was. We were told to stay by our job.
13 And you weren't supposed to talk too much to
14 the other people. You had your work to do, you
15 did it, and -- so you stay -- I was doing
16 spectrographic work and I stayed by it. And I
17 thought gee, I really ought to let my folks
18 know that I'm going to be late, you know,
19 getting home. And so when things kind of
20 quieted down and I called Mom and she said
21 well, gee, I know exactly what happened. I
22 said well, I can't tell you what it's about,
23 but I'm going to be here for a while. And it
24 was on the news and the radio and -- you know.
25 But that was an empty tank that blew and blew

1 the wall out and it -- it was interesting.

2 Interesting work.

3 I did get a call from one of the reporters from
4 the Post Dispatch a couple of years ago, and I
5 said well, Mister, I really can't talk this
6 over with you. If you show me your
7 credentials, why -- and then maybe I can. And
8 so then when it was in the paper and they told
9 the different parts per million and different
10 things, well, then I felt well, I guess it's
11 out now so it's okay.

12 But it was fun watching them when we left Plant
13 6 and they had the little model of what Weldon
14 Springs was going to look like. We were going
15 to have a lot less contamination in the system
16 because that was glass instead of what we --
17 what we had in Plant 6 that was metal. And it
18 was -- those were just a few of the things I
19 knew, but thanks for giving me your time. I
20 didn't know I had so much I could talk about,
21 but if you have any questions, I'll be glad to
22 help you.

23 **DR. ZIEMER:** Okay. Next, Louis Mc-- McKeel,
24 McKeel. Louise?

25 **MS. MCKEEL:** I guess I'm the videographer and I

1 don't normally speak, but I do think I will now
2 because I've collected a lot on this particular
3 topic and about Weldon Spring. And I have some
4 feelings, if not all the facts that Dan has.
5 Actually I want to say, too, that I have quite
6 a few facts at my house because I counted up
7 154 filing drawers in my house. Not all of
8 them are on the Weldon Springs topic, but I
9 could tell you the exact number and then you'd
10 know exactly how much we know. But we -- Dan -
11 - I'm going to go on about this just a little
12 bit.

13 Dan began by going to Busch Wildlife to just
14 relax after the 80-hour week that he has at
15 Barnes Hospital. And I said Dan, you know,
16 there might be a little problem out there. And
17 he was very believing and saying -- I mean
18 we're part of people who've been in nice
19 neighborhoods, good schools, we're not used to
20 the government fudging on us. We thought we
21 knew the people in the government. Some of
22 them are our ancestors and stuff like that. So
23 we weren't expecting the worst.
24 But then I got him interested in just looking,
25 and now it's several years later. And I think

1 Dan is really angry. I think he's more angry
2 than I'm about to confess myself, but we think
3 that the basic thing that we have noticed, just
4 as citizens who started out going to Busch
5 Wildlife Reserve, is that the Department of
6 Energy and all the people associated, everybody
7 who belongs to an agency in this room, is
8 kidding us, me and Dan and a lot of the people
9 here. And by this time I have a lot of tape to
10 show you all, talking about things and the way
11 -- I mean I just made some notes at lunch, and
12 I know you're bored and the bus is leaving, but
13 I also have spent a lot of time behind the
14 camera and I'm going on a little bit.
15 We're al-- Dan and I are always looking for
16 facts and statistics. I can brag that I got an
17 A in statistics in social work school at
18 Washington University for my master's degree in
19 social work, so I know a little bit about it.
20 And I'm interested in it, besides. Maybe
21 that's why I even take up topics like this.
22 I want to say, too, that Dan and I have been
23 married 43 years, and I think the -- we had
24 what I believe I heard lately, a beautiful
25 ambition to try to be a good doctor and try to

1 deliver health care to the community and the
2 world that we knew at that time. And we really
3 haven't deviated from that just a whole lot in
4 the 43 years, and I can still stay that.
5 And it's in that spirit that I'm kind of
6 appalled at what I got on my yards and yards,
7 my miles, no less, of videotape. But anyway,
8 some of the things that bother me, just from
9 this morning, and I'm a little bit off the
10 street. I don't know everything here, but
11 things that just concern me a lot -- dose
12 calculation could be accurate. I mean
13 everybody seems to just forget that fact that
14 it's -- that it is -- that you don't have the
15 records. They seem to just let that go by.
16 But there should have been records. There
17 could have been records. If I'd been a
18 secretary in anybody's office in this room and
19 I'd lost the records, I think I'd have been
20 fired. And especially important records that
21 have to do with people's health, with their
22 lives, with their death and with their -- their
23 families for a generation or more to come. How
24 could you lose such records? What is that?
25 Unless of course it might be a little

1 deliberate, it occurs to me, after I tape a few
2 miles of videotape about it.

3 And I see selective memory here. I mean, you
4 know, if it's beneficial on one side, well,
5 then you might be able to do that. But if it's
6 not beneficial, then you probably can't, and on
7 and on.

8 But anyway, the dose calculation's based on
9 badges. You know, the people standing here in
10 -- in various feet of measurements of yellow
11 cake, I hear and things. A badge doesn't
12 necessarily even measure all of that. And
13 badges can malfunction. I know every little
14 thing that you have can do that. A lot of
15 times we've been hearing where people just
16 didn't wear them all or most of the time.
17 Certainly I have heard that people working in
18 these conditions weren't told. And I really do
19 not believe that they were. Some, perhaps, but
20 probably not. Even -- even the most -- the
21 least educated people who I've talked to about
22 this have common sense. And they just weren't
23 -- that nobody appealed to their common sense,
24 and that angers me just as a wife and mother
25 and human being on the planet.

1 Anyway, they didn't wear -- a lot of times they
2 didn't wear their badge during the most
3 dangerous parts of the job. Some of this is
4 rumor, but then again, I think there are people
5 here who could probably confirm some of that.
6 Another thing about -- I think they didn't
7 check the arithmetic on adding up about the
8 badges. I mean everything is fluffy about the
9 numbers on this thing. It's well, you know, it
10 might be -- but it is not concrete. There is
11 not the data. There is not a level of fact
12 that I think that most people could expect from
13 -- from an ordinary secretary. And I believe,
14 as a taxpayer -- I feel doubly vulnerable. I
15 think that what could be going on here is a way
16 to try to appease and try to make it seem and
17 put these folks off and you know how hard it is
18 to get here and everybody's dying and all these
19 other problems, delay, I guess we could get to
20 -- in psychology you can go through the defense
21 mechanisms and you can use all of those to get
22 out of the situation. But the point being that
23 when -- the fact really is that the taxpayer
24 might become vulnerable to this after all.
25 They might wind up needing to pay more for

1 these people than everybody here seems to kind
2 of think that they might get out of. And that
3 would be bad for me, the taxpayer, my kids, and
4 then basically everybody in the room and all
5 that, but taxpayer might need to pay for that.
6 In the meantime, the taxpayer needs to pay for
7 28 meetings to discover what I feel plainly and
8 boldly and perhaps meanly and crassly are very
9 fluffy thoughts about not addressing the basic
10 human needs of the workers in this room, in
11 this nation, and probably in the world. So I'm
12 just going to say that on my first day here,
13 and maybe I'll hear some things that'll make me
14 feel better.

15 **DR. ZIEMER:** Okay. Thank you, Louise. Next
16 we'll go to William Headrick. William I
17 believe has some overheads, too, that he's
18 going to use. Is that correct, William?

19 **MR. HEADRICK:** That is correct.

20 **DR. ZIEMER:** All right.

21 **MR. HEADRICK:** I have a power point
22 presentation loaded on the computer. Should I
23 come up and start it or...

24 **DR. ZIEMER:** Let's -- I think Chris is going to
25 help you out here.

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(Pause)

MR. HEADRICK: Thank you. First of all, I'm a little young to have worked at Mallinckrodt or Weldon Springs, so I put together a slide presentation and this is from a letter that my mother wrote for the July 9th, 2003 meeting which she wasn't able to attend because of illness.

My mother was Shirley Joyce Headrick and she's currently deceased.

She was born on July 28th of 1935. She passed away November 15th of 2004. She worked at Mallinckrodt from August 5th, 1953 at the Destrehan Street plant to August 15th, 1959. I'll get into August 15th, 1959 a little more in a minute. At that day she was transferred to Weldon Spring where she worked until December 31st, 1967.

This is a synopsis of the letter, which I'm going to read to you. Your letter telling of a meeting of Mallinckrodt claimants to be held on Wednesday, July 9th, 2003 at the Iron Workers Local No. 396 hall 2500 59 St. Louis from 6:00 to 10:00 p.m. has been received. It is my hope to be present, but the health condition of

1 myself and my husband may not permit our
2 attendance. If you want to read the following
3 into your record, please feel free to do so.
4 I am one of the former nuclear workers from
5 Mallinckrodt Destrehan site and Weldon Springs
6 who has lung cancer. On August 14th, 2002
7 surgery on my left lung, with removal of a
8 bronchioloalvaolar carcinoma, commonly known as
9 Carr's carcinoma, left, my left lung was
10 performed. Right lung tumors are inoperable
11 due to proximity to veins and artery. Only one
12 percent have this type of lung cancer, and
13 probable cause are pollutions or radiation,
14 with surgery as the only recourse. Chemo or
15 radiation treatments are not effective.
16 Having seen the November 24th, 2002 article in
17 the Post Dispatch, contacted you for assistance
18 and information in filing a claim. Following
19 is the summary of events which followed.
20 December 18th, 2002, U.S. Department of Labor
21 acknowledges receipt of claim for benefits
22 under the Energy Employees Occupational Illness
23 Compensation Program of 2002.
24 January 30th, 2003, Department of Energy,
25 Washington, D.C. acknowledged application from

1 assistance from EEOICPA.

2 March 3rd, 2003, U.S. Department of Labor
3 advised DOE cannot confirm employment history,
4 nor can Mallinckrodt, Incorporated.

5 Actually, they told her she didn't work there.
6 However, she contacted the Social Security
7 Administration to corroborate (sic) the
8 employment information. Now nobody wanted to
9 believe her documents that showed she'd worked
10 there.

11 March 14th, 2003, EEOICPA writes DOE advised us
12 they have no information on you.

13 April 2nd in 2003 she telephoned DOE and was
14 advised when Weldon Spring facilities closed
15 contaminated records were shredded and not
16 available.

17 June 16th, Social Security records pertaining -
18 - received proving that she was a Mallinckrodt
19 employee from 1953 through 1967.

20 June 11th, 2003, Department of Labor
21 acknowledged full support for my claim record,
22 copy of case file referred to NIOSH for
23 evaluation of dose reconstruction.

24 She was shocked to read, quote -- from NIOSH,
25 when done for research purposes, dose

1 reconstructions may take months to years to
2 complete. In compensation programs a balance
3 between efficiency and precision is needed.
4 When the process is fully implemented it will
5 be possible to develop reasonable estimates of
6 the time needed to complete a dose
7 reconstruction.

8 June 25th, 2003 NIOSH received case file
9 showing Department of Labor has determined her
10 employment and health condition are covered
11 over the EEOICPA Act. NIOSH plans to request
12 radiation exposure information data from DOE,
13 who had already advised her that the
14 information was destroyed due to contamination.
15 Here's her opinion that was included in the
16 letter.

17 All of this sounds like delay tactics and
18 cover-up with money spent on bureaucratic
19 procedures. If records of my employment were
20 destroyed due to contamination, am I also waste
21 material to be destroyed? How does \$200
22 billion for massive cleanup of sites, \$70
23 million for radiation dose estimates, compare
24 with \$150,000 per worker with cancer who
25 breathed alpha or beta-emitting isotopes, as

1 well as being exposed to gamma radiation.
2 Radiation exposure was given a very low
3 priority, and protection standards negligible
4 compared to today. Refer to Missouri Resource
5 Review, Volume 8, Number 21, summer of 1991.
6 We definitely need Special Exposure Cohort
7 status. Shirley J. Headrick.
8 Now, since then my mother's passed away, and
9 she's asked me to pursue this for her. Give
10 you a few of the dates. August 14th, 2002 was
11 the diagnosis date. This is after they'd
12 removed half of her lung. June 16, 2003, claim
13 received from DOL. June 25th, 2003, letter
14 sent to claimant. August 25, 2003, telephone
15 interview, we're moving fast here, doing good
16 work. October 15th, 2003, report sent to
17 claimant. What happened for a year? August
18 18th, 2004, conflict of interest letter sent to
19 claimant. November 15th, 2004, claimant passes
20 away during cancer surgery. January, 2005, I
21 received a letter from NIOSH. Dose
22 reconstruction not started. No explanation.
23 They haven't felt like starting it since August
24 14th, 2002.
25 Employment information while she was at

1 Mallinckrodt. Enlarged lymph node removed in
2 1958 by Mallinckrodt physician at Barnes
3 Hospital. Barnes physician and Mallinckrodt
4 all refused to share records with the employee.
5 My mother assumes that the records were
6 destroyed -- or I should say assumed.
7 Dosimeter badge and records destroyed at
8 Destrehan site after medical exam. She assumes
9 this. She knows that they took all of her
10 records away from her and took her dosimeter
11 badge. And on August 15th, 1959 they
12 transferred her to Weldon Springs. This is the
13 same day they confiscated all of her records.
14 A note about her job. Her desk had to be wiped
15 clean from black dust that covered it daily.
16 She didn't know what the black dust was.
17 A few notes from her employment that she was
18 able to keep. They didn't confiscate these.
19 Black dust eats holes in nylons. Black dust
20 eats holes in car paint. Miscarriage in 1957.
21 This is after her employment. Twelve years
22 until next pregnancy. Birthing problems. Son
23 in hospital after birth, barely survived. Many
24 birthing problems and sick offspring, similar
25 to other of her coworkers.

1 I note on Federal government efficiency. Dose
2 reconstruction has not started in January of
3 2005, yet we have a letter from NIOSH claiming
4 it started August 14th, 2002. Two letters,
5 conflicting dates. DOE claimed records were
6 shredded due to contamination of facility, so
7 the facility was closed and they couldn't
8 verify employment because they shredded the
9 records and destroyed the dosimeters. This was
10 received April 2nd, 2003 from DOE.

11 I'll let you read what you will into that.
12 That's what my mother had asked to be read to
13 you on July 9th of 2003. It's now only a year
14 and a half later and we have not progressed
15 actually one second past July 9th of 2003, as
16 far as I can tell from listening to the
17 discussions today. Maybe we've spent a few
18 more billion dollars. Thank you.

19 **DR. ZIEMER:** Thank you, Dr. Hendrick (sic),
20 sharing that. I recognize your frustration.
21 We have one individual who's one of the bus
22 riders that would like to speak. Are you
23 approaching the mike now? And please state
24 your name for the record, please.

25 **UNIDENTIFIED:** First of all, I want to thank

1 you for giving me a chance to talk. I worked
2 for Mallinckrodt --

3 **DR. ZIEMER:** Could you state your name, sir?
4 Could you state your name for the record,
5 please?

6 **UNIDENTIFIED:** Can I -- I'm sorry?

7 **DR. ZIEMER:** Give us your name, please.

8 **MR. MUECKE:** Edward, and the last name's
9 spelled M-u-e-c-k-e.

10 **DR. ZIEMER:** Thank you.

11 **MR. MUECKE:** I worked for Mallinckrodt -- I
12 started in 1947. Now I was asked today if I
13 hate the company. Truthfully, no. I had no
14 reason to hate the company for not telling me.
15 As far as I was concerned, they -- they did
16 hold things back. I didn't know what I was
17 doing and I didn't mention what I was doing, to
18 anyone. In those days you didn't do it because
19 the Russians didn't have the bomb. But the
20 building that I originally worked in, the sign
21 on the outside, it said that the first uranium
22 produced in the first atomic bomb was produced
23 in this building. Well, I stayed in the
24 radiation department from 1947 and I -- ten
25 years later I -- well, I went from Plant 4 --

1 was knocked down and I went to Plant 5 that was
2 built and was going to be one of those things
3 where the air is going to be -- well, it -- at
4 Plant 4 I should say it was deplorable. I mean
5 it was the worst of all.
6 We had -- they gave you a respirator, but it
7 was so heavy you would never wear it. And none
8 of us wore it. We didn't know -- we were
9 mixing what we called green salt and mixing it
10 with magnesium. And when you put those into
11 what they call a bomb shell, we had no -- in
12 the Plant 4, we had nothing to pick up that
13 dust, no ventilation at all, you know -- or
14 vacuum, I should say, to pull it away.
15 Well, when they -- we moved from there down to
16 Plant 6E, they tore that building down, that
17 Plant 4. When they tore that down -- they
18 wouldn't do it today, but they just knocked it
19 down and they took all the bricks -- hauled
20 them all away. Then they came in and took
21 eight feet of -- approximately eight feet of
22 dirt -- of bricks and all out, and they went
23 down and they came in with fresh dirt and put
24 dirt in there. They then came and asphalt that
25 -- and if you go down there today, it's a

1 parking lot.

2 Now that Plant 6E that was so good, well, when

3 I went down there -- it was, in the beginning

4 it worked real good. And all this air that you

5 were taking in from dust and all, they had big

6 containers that -- bags, we called them, and

7 what they had on the outside was air blowing in

8 there. And what that air was doing, as it

9 moved up and down, was knocking that material

10 loose and it'd fall into these drums and they

11 were hauled off to the airport. Well, I'd go

12 along -- I was utility men (unintelligible) and

13 we'd go along and I'd say to the foreman, I'd

14 say that one section up there, I cannot --

15 well, it was collecting the dust. It had an

16 electric eye in there and the electric --

17 anything breaks that beam shuts the thing down,

18 so I go to the foreman on a Monday and I said,

19 in particular -- I went to him and I said I

20 can't keep that thing on automatic. The thing

21 will not stay on automatic because it was being

22 -- breaking that -- you mean to tell me we

23 worked on Saturday time and a half, Sunday

24 double time, and you come to me on a Monday and

25 tell me that you want to shut that thing down?

1 Put that thing on manual and forget about it.
2 Now the person outside here, he's breezing
3 along thinking boy, I'll get a big breath of
4 air. He takes a big breath of air, he's taking
5 all of that (unintelligible) what we were
6 putting out into the air. He didn't know it.
7 That's when they moved that Plant 6E out to
8 Weldon Springs. Well, I had too much seniority
9 at that time to go to Weldon Springs, so I
10 stayed there.

11 And the media asked me if I disliked them. No,
12 I must have liked them a little bit because I
13 spent 50 years with them.

14 I want to thank you for the time. Thank you.

15 **DR. WADE:** Thank you, sir. Next we have Mrs.
16 Tyndale.

17 **MS. TYNDALE:** My name is Tina Tyndale. My
18 husband's name is Franklin Tyndale. He was
19 employed at ABB, the former Mallinckrodt plant,
20 from February, 1992 through June of 2001 when
21 the plant closed. He will be here tomorrow to
22 talk about his position, the exposure and that
23 type of thing. I'm just here to tell our
24 story. It's very difficult for him to talk
25 about.

1 He worked a lot of seven-day, 12-hour shifts.
2 He also started body-building while employed
3 there. He was in excellent health. For the
4 body-building he consumed large amounts of
5 water, mostly at work, since this is where he
6 was most of the time. He never was told that
7 the water was contaminated.

8 He also worked on the scanner where the rods
9 had to be activated to check for proper
10 enrichment. This area had the highest dose of
11 radiation in the plant.

12 In July of 1998 he noticed a bump on his upper
13 thigh. He went to the doctor and was told it
14 was a hematoma from lifting weights and not to
15 worry about it. He had it checked again in a
16 couple of months and was told the same thing.
17 I grew more and more concerned because it kept
18 getting bigger. He went back in February of
19 '99. This time he was sent to a surgeon, who
20 did an MRI. The surgeon told us at that time
21 he didn't think it was anything to worry about,
22 but he could have it removed in a month or two
23 if he wanted. The following week the surgeon
24 called and said they'd changed their minds,
25 they wanted to remove it immediately. I knew

1 in my heart that someone else had looked at
2 that MRI and saw something the other doctor had
3 not, and it wasn't good. This is when our
4 nightmare started.

5 They did the surgery a few days later. While
6 Jim was in recovery the doctor came out to talk
7 to me. He wouldn't answer any of my questions.
8 He only looked at me and said he needed to keep
9 his patient's spirits up. I knew instantly
10 that it was cancer. He didn't have to tell me;
11 I knew from his behavior. I just didn't know
12 at that time it would be one of the most
13 rarest, most aggressive forms of cancer known
14 to man. Most doctors will never ever see it in
15 their entire career. That is why it was
16 misdiagnosed for so long as a hematoma.
17 The doctor walked off and left me standing
18 there with all these questions and no answers.
19 I'll never forget that feeling. I was in a
20 panic. I was scared and I was sick inside. I
21 went outside and cried hysterically, finally
22 realizing the doctor wasn't going to tell him
23 anything until the biopsy came back the
24 following week. I knew I had to go in his room
25 and act as if everything were okay. As soon as

1 I entered the room, he knew that something was
2 wrong. He could tell I'd been crying. When I
3 looked up at him there was panic in his face
4 and he kept saying what is it, what is it, you
5 know something I don't. I had to lie and
6 convince him that I was just tired and, you
7 know, I -- I didn't know anything. Inside I
8 was physically sick. All I could think about
9 was him dying.

10 The whole week waiting for the biopsy was hell
11 because I couldn't think about anything else.
12 I just kept praying they were wrong, it must be
13 anything but cancer.

14 When we walked into the office for the results
15 of the biopsy, the doctor sat on a stool. He
16 spun around and he had this horrible, sad look
17 on his face. I could literally see the tears
18 in his eyes. He couldn't even talk. It took
19 him about two or three minutes, and all he
20 could say was I am so sorry, you are so young.
21 That came out of his mouth before telling him
22 he had the cancer. And he just kept saying I
23 am so sorry.

24 We sat there. We couldn't even speak. We
25 couldn't do anything. It was just devastating.

1 He finally said it was ovular sarcoma*, a very
2 rare, very aggressive form of cancer. There
3 was no talk about helping him get through it.
4 There was no talk about, you know, he was going
5 to pull through it, we were going to take care
6 of this, we were going to -- you know, there
7 was none of that. He just kept saying I'm
8 sorry. I mean he basically handed him a death
9 sentence.

10 The whole visit is just a memory of pain,
11 sadness, anger -- because I knew instantly that
12 he got it out there at that plant where he
13 worked. There was no doubt in my mind. There
14 was no cancer in his family. He was too
15 healthy.

16 The problem was, no one in this area even knew
17 about sarcoma. We kept -- contacted all the
18 major hospitals. The doctor tried to find a --
19 a cancer doctor, to no avail. There was no one
20 here that could treat this cancer. So we had
21 to start going to M. D. Anderson in Houston.
22 We went down there on the first visit, and when
23 the doctor walked in he sat down and he said
24 we're shocked that you're here. We can't
25 believe you're alive. I said what do you mean

1 by that? And he said sarcoma usually kills in
2 four to six months undiagnosed. He had already
3 had the knot for ten months. I was even
4 scareder (sic) then. At that point I didn't
5 know if he was going to live a few more days, a
6 few more weeks.
7 They decided to do surgery again. We got to
8 come back home for I think it was three days.
9 He said he wanted him to come home and be with
10 his family for a few days before the surgery.
11 So we came back home. We went straight back
12 down there. We were only home for a day, I
13 think.
14 We got married that Sunday, in fact -- got
15 married that Sunday, March 28th, '99. We left
16 for Houston Monday morning. Our honeymoon was
17 spent at M. D. Anderson Hospital with him
18 recovering from the surgery.
19 They say that the surgery went well. They
20 biopsied all the tissue that was left in his
21 thigh. They took out his whole quadrant. He
22 has a huge -- you know, there's no muscle or
23 anything there, it's -- his leg is just all
24 indented. He had to stop body-building. It's
25 just been, you know, very devastating for us

1 financially, emotionally.

2 They made us come every three months for the
3 checkups for the first two years. We had to go
4 to Houston every three months. Depending on
5 the copays and deductibles and the trip,
6 sometimes those trips were about \$4,500 each.
7 I mean it just financially took everything he
8 had.

9 After two years they put us on six months, and
10 they told us that the fifth year we could
11 change to a year. Before that even happened,
12 they saw changes in the MRI so they put us back
13 on three months. You know, it's just a
14 constant. Every time we go there we never --
15 we never know if they're going to say it's
16 metastasized.

17 This form of cancer metastasizes to the brain
18 and to the lung. And when and if it does,
19 there's very, very little chance of survival,
20 and that's what we're faced with every day,
21 because the cancer is so rare that there have
22 been no long-term studies. So what they're
23 telling us is their good guess. So we're
24 looking at probably, after five years, 30 to 50
25 percent chance that it will metastasize.

1 So as I stand here right now, having to come
2 here and even beg for, you know, compensation
3 we shouldn't have to do, you know, I know in my
4 heart that at any given time we could have to
5 go to Houston and stay there for 12 months of
6 chemo and radiation. We can't financially even
7 do that without this money. It won't be
8 possible. We would have to stay here, and that
9 will be a death sentence for him, because they
10 can't treat it here. It's extremely important
11 for him to be compensated.
12 He is so afraid of this he will not take out a
13 loan. We cannot get a house. We cannot get a
14 car. We cannot do anything. We can't even use
15 the credit cards because he knows that if
16 anything happens to him, I'll be left holding
17 all that and I can't do it. You know, these
18 trips are -- are just outrageous for him. He
19 stays so depressed for a whole week. The whole
20 trip down there, the whole time we're there, he
21 doesn't talk, he doesn't leave the hotel room
22 to even eat, we order in. I mean he doesn't
23 even speak he is in such a depression until he
24 gets the word from the doctor that the cancer's
25 not returned yet.

1 And that's what our lives have been like since
2 he worked at that plant. It's just -- it's
3 hard -- it's hard for me to comprehend why we
4 all have to keep coming here and doing this and
5 getting denied, because the excuses just aren't
6 good enough for me anymore. The bottom line is
7 you all know all the people who have died and
8 are still dying today, and nobody's doing
9 anything about it. That's just outrageous to
10 me, you know. It's time for all these people
11 to be compensated for the hell they've been
12 through and their families. It's really time
13 to stop all these excuses of there hasn't been
14 a site profile and there has -- what more proof
15 do you need than death everywhere? Thank you.

16 **DR. ZIEMER:** Thank you for sharing a very
17 difficult tale.

18 Let me just sort of inform you all where we are
19 at the moment. We have one bus rider who
20 wishes to speak, and the gentleman -- okay,
21 yes.

22 **MR. VOGNER:** My name is John Vogner. I worked
23 for the uranium division downtown, and also at
24 Weldon Springs. And I've been trying to get
25 hold of my medical records and I've got all

1 kinds of runaround. I've called Paducah and
2 Oak Ridge and everyplace else, and I had a time
3 establishing the fact that I had worked for
4 Mallinckrodt. I originally wrote to
5 Mallinckrodt for my health record and also my
6 employment record. And after bugging them back
7 and forth and everything like that, I finally
8 heard from a lady down there and she sent me a
9 copy of my employment.

10 Now while at Mallinckrodt at the Destrehan
11 plant on the river there, we had pitchblende
12 coming in at that time from the Belgian Congo.
13 And from what I understand, that was pretty hot
14 stuff. I was in and out of tanks and stuff
15 like that, working on level indicators and
16 things on that order. And I worked all through
17 the plant with Mr. Windisch that brought this
18 up, and like I say -- I mean where are my
19 records at? Was I hot enough they decided we'd
20 better get rid of these things or what? And
21 that's what I'm worried about. Am I supposed
22 to drop dead so my wife has to go ahead and go
23 through all of this stuff? Thank you.

24 **DR. ZIEMER:** Okay, thank you. We have
25 approximately a dozen individuals left, half of

1 whom have asked for five minutes each, some
2 have asked for ten minutes each, and some 15
3 minutes, which tells me we have well over an
4 hour yet. What I would like to find out is
5 whether any of those who have signed up plan to
6 be here either tomorrow or the next day and
7 would be willing to do their comments at one of
8 the -- we have several other public comment
9 periods coming up tomorrow and Wednesday. If
10 there are those, I would suggest -- if they --
11 if they're willing to. We can certainly stay
12 as long as we need to, but if there are some
13 who would be willing to postpone their comments
14 to one of the later sessions, that might help
15 some who are not able to do that and who may
16 need to leave.

17 Are there any who signed up that might be able
18 to do their comments -- could you tell us your
19 name?

20 **MS. MAUSER:** Terri Mauser.

21 **DR. ZIEMER:** Terri? Thank you. Any others?

22 **DR. WADE:** A lady over here.

23 **DR. ZIEMER:** Where?

24 **DR. WADE:** The lady right here.

25 **UNIDENTIFIED:** My name is Donna

1 (unintelligible) and (unintelligible) tomorrow.

2 **DR. ZIEMER:** Okay, Donna, thank you. Any
3 others?

4 **MR. SCHNEIDER:** (Off microphone) I'm Clarence
5 Schneider and I'll wait till tomorrow.

6 **DR. ZIEMER:** Thank you, Clarence.

7 **MR. BOYD:** (Off microphone) James Boyd.

8 **DR. ZIEMER:** James? Thank you.

9 **UNIDENTIFIED:** My name is (unintelligible) and
10 (unintelligible).

11 **DR. ZIEMER:** That's fine. Any others that
12 would want to postpone? Okay, fine. Let's
13 proceed then. Let's see, actually the next --
14 you can go ahead, ma'am, and then I'll catch
15 the others.

16 **MS. CROCK:** My name is Jamie Crock and my dad
17 was employed by Mallinckrodt. He's been
18 deceased for about seven years, but he was
19 employed by Mallinckrodt at Destrehan and at
20 Weldon Springs. Again, as everyone else has
21 said, I would like to thank you for this
22 opportunity to talk. My first question to you
23 is have any of you been to Weldon Springs to
24 see that site?

25 I don't understand how the government can spend

1 the millions and billions of dollars that they
2 have spent --

3 **DR. ZIEMER:** That may be the phone
4 (unintelligible), and sorry, we'll get this
5 corrected here -- a voice from somewhere --
6 cyberspace. Sorry for the interruption.

7 **MS. CROCK:** That's okay. I don't understand
8 how the government can spend billions of
9 dollars to clean up a site and not help the
10 people who worked there. These people invested
11 a lot of time and energy to help the government
12 be able to do what it needed to do, and the
13 government has basically deserted them. We've
14 been at this for probably five years, and all
15 we keep doing is getting mail. We've spent
16 enough money in mail between us and NIOSH and
17 dose reconstruction and all of those people
18 that you could have paid the \$150,000 and saved
19 yourself a lot of mail and time.

20 But anyway, he -- my dad had radiation-induced
21 cataracts at the age of 40. He had skin
22 cancer. He hauled uranium waste in his car.
23 He would take us as children and show us where
24 he delivered it to and put it in bunkers in
25 Busch Wildlife area. And we still live with

1 this today because we have the house that he
2 built when he was employed by Mallinckrodt, and
3 he -- I'm sure he brought that home from work
4 with him every day. He was a payroll
5 specialist. He was in the plant. He would
6 have to try to read time cards that were
7 completely covered in dust. So like I said,
8 basically it's just, to me, all of you people
9 being here tonight in this big fancy room, we
10 could be helping a whole lot of people.

11 **DR. ZIEMER:** Thank you. Shirley Cavaleski?
12 Shirley? Is Shirley not -- not here, perhaps
13 has left. Okay.

14 Frank O'Hare? Michael Amro? I'm having a
15 little trouble reading this one. It's a short
16 name, looks like an A-m-r-o, Anro? Okay.
17 Rosemary Zack? Thank you.

18 **MS. ZACK:** Yes, I worked for Mallinckrodt from
19 1957, April of 1957 through December of 1966.
20 At that time -- I worked for document control
21 when I first became an employee there for a
22 number of years, and I do know that one time --
23 and I also filed in the technical library, and
24 I do know that at one time I accompanied a
25 guard out in the back of the plant and we did -

1 - there was an incinerator there and they did
2 burn some -- as I was told, it was declassified
3 documents. I don't know exactly what we
4 burned, but I do know that we did that.
5 And when I was in -- 1963 I did suffer a
6 miscarriage while working there, and I've had
7 three operations -- I've never had cancer, but
8 I've had three operations and had non-malignant
9 tumors removed. And I have at the present time
10 a cyst on my spine and I also have a cyst on
11 one of my kidneys. It's monitored by my
12 doctors once a year by MRI. And I just wanted
13 to bring that to your attention and I guess
14 that's it.

15 **DR. ZIEMER:** Okay, thank you very much. Mary
16 Jennon -- Jennon, is it? Is that close?

17 **MS. JENERRY:** Mary Jenerry.

18 **DR. ZIEMER:** Jenerry, okay. Thank you. I like
19 the sound of that, Mary Jenerry.

20 **MS. JENERRY:** Yeah, and I worked in -- for
21 Mallinckrodt in 1957 and '58 and in 2000 why, I
22 had kidney cancer. I had to have my kidney
23 removed. And while I was working at
24 Mallinckrodt why, there were a lot of things
25 that went on that I -- I didn't think anything

1 of until all this came about. I've seen like
2 yellow dust in the cafeteria, and I've seen men
3 come in with covers on their boots, but I -- I
4 mean I thought we were completely safe. I
5 loved Mallinckrodt.

6 The guards would go from one station to the
7 other, so I don't know, maybe they were out in
8 the plant. I'm sure they were. I have seen
9 them bring -- one time they brought some frogs
10 in and, you know, it was just being like funny,
11 showing them to me and they were from one of
12 the ponds out there, and they were so deformed
13 that I even had to turn my head. It was
14 horrible. And -- well, I guess that's about
15 it.

16 I drank the water out there. I've seen the --
17 out at the pipes I've seen yellow smoke, but I
18 didn't know what it was. I think the building
19 -- probably the whole building probably had
20 contamination in it, but I wasn't aware of
21 that. I was young. I was totally trusting and
22 I loved working for Mallinckrodt. But now
23 every six months I have to go for a blood test
24 to see if I -- my other kidney's working. So
25 hopefully everything'll be okay. Thanks a lot

1 for your time.

2 **DR. ZIEMER:** Thank you, Mary. Germine
3 Holtmeyer*.

4 **MS. HOLTMEYER:** ... and --

5 **DR. ZIEMER:** Gerine, I'm sorry, I got that
6 wrong.

7 **MS. HOLTMEYER:** That's okay, everybody has
8 problems with it. My husband's name was Robert
9 Holtmeyer. He worked at Mallinckrodt at Weldon
10 Springs in the '50's and early '60's, and he
11 was diagnosed with cancer when he was 49 years
12 old, colon cancer. And the doctor said that he
13 had had it for years. He was a seemingly
14 healthy man with parents and grandparents that
15 lived into their eighties.

16 The day he came home from the doctor with a
17 diagnosis of cancer, I collapsed and screamed,
18 That damned Mallinckrodt Chemical, and he
19 replied -- and I can still hear him -- I know,
20 I know. It was a fear he lived with, mainly
21 because he had lost many Mallinckrodt coworkers
22 and carpool buddies by now, all due to cancer.
23 He was able to walk one of his three daughters
24 down the aisle, but never got to see his
25 grandsons.

1 I was told that my husband's records were also
2 destroyed, and I had to go through Social
3 Security and everything to get records to prove
4 that he worked there. My claim has been
5 denied. However, I have appealed and I'm
6 appealing to you right now, please help us.
7 Thank you.

8 Oh, I'm sorry, my sister-in-law is with me, and
9 her husband also worked there and she asked me
10 to get up and say a few words for her. He was
11 also my husband's buddy and in the carpool, so
12 they had something in common. He worked there
13 in the '50's. He was a maintenance man and
14 whenever there was trouble somewhere, he was
15 called to fix it. He had a boil on his leg --
16 and I saw a picture of it and it was so gross -
17 - he had a boil on his leg and it would burst
18 and burn, and his skin would turn yellow.

19 One time something was leaking at work and it
20 exploded, and he had to climb up a ladder and
21 pull another man out to save him. Hard telling
22 what that was he was exposed to.

23 We had ten children. When he died I had five
24 of them to raise by myself. He was 55 years
25 old when he died. Thank you.

1 **DR. ZIEMER:** Thank you very much. That
2 completes our public comment period. And
3 again, I -- the -- one, two, three, four, five
4 individuals who volunteered to postpone till
5 tomorrow, we will have you on the schedule then
6 first thing tomorrow.

7 Is there another comment?

8 **MR. SEMARADI:** I was on that list earlier.

9 **DR. ZIEMER:** Oh, okay. Maybe -- maybe we --
10 maybe you were out when we called your name.

11 **MR. SEMARADI:** Yeah, well, I -- Andy Semaradi.
12 I came in earlier and you guys -- after your
13 break there and before we --

14 **DR. ZIEMER:** Okay.

15 **MR. SEMARADI:** And while I'm on a -- while
16 these people are on a roll here, I'd like to
17 know -- I had NIOSH, OSHA, everybody out there
18 at the airport. This is a different thing, but
19 like the man said a while ago, he loaded the
20 trucks that dumped at the airport. And I know
21 for a fact that -- I've got test results, I've
22 got samples -- this stuff was dumped out there
23 and we've been -- now this man here come up --
24 he had a good presentation on what he was doing
25 there. When you're having a hearing like this,

1 how long do these people have to wait?
2 Shouldn't this company here have an answer for
3 you when you have this here going on? I mean
4 I've been fighting since 1996 trying to get
5 information from the government on what it is.
6 And according to my right to work hazard --
7 workplace hazards, access to your exposure
8 records, 29 CFR -- these guys from the NIOSH
9 will tell you -- these companies are supposed
10 to keep your records 30 years after you leave
11 employment. And instead of these guys waiting
12 for you to pay them \$150,000 or \$250,000, can't
13 you sue Mallinckrodt because they don't' have
14 their records? It says in the rules here
15 you're supposed to have the records. I mean
16 isn't there a different way? I'm going to go
17 after them on the waste water -- individuals
18 can sue the government for discharges. Now
19 I've had hazwopper* training. I know what I'm
20 supposed to do and what I'm not. Now when they
21 tell me to pick up contaminated, polluted
22 radiation water and dump it into Coldwater
23 Creek out there into Missouri and it goes into
24 the river, I'm violating the rules and the laws
25 if I do anything, but NIOSH, OSHA, DNR, nobody

1 wants to help these people, and it's about time
2 -- you know, you people -- I think you've all
3 got a good idea that you're wanting to help the
4 people, but when you're having a hearing like
5 this, when this man puts a presentation up and
6 you're going to be voting on something, the
7 other company doesn't have an answer, you know,
8 how long do they have to wait? It's going on
9 forever and it's about time to get something
10 done.

11 **DR. ZIEMER:** Thank you.

12 **MR. SEMARADI:** And why can't they sue
13 Mallinckrodt? And if anybody looks, we've had
14 air sampling done at the airport. We've had it
15 -- okay, what have you got, Washington
16 University does it, somebody else does it, and
17 what do you -- when you go down to Barnes
18 Hospital, what do you see? A Mallinckrodt
19 wing, a Monsanto wing, a MacDonald-Douglas
20 wing, and these are the people that polluted,
21 so they're giving millions of dollars to these
22 research places and there's nobody going to do
23 a thing about it because that's where their
24 money comes from. It's about time you people
25 started paying somebody.

1 **DR. ZIEMER:** Thank you. That will then
2 conclude our session for today. Let me remind
3 you that the Board will be in session all day
4 tomorrow -- I'm looking for the agenda. I
5 believe we start at 8:30 in the morning.

6 **DR. WADE:** 8:00.

7 **DR. ZIEMER:** Or 8:00 in the morning, providing
8 all the equipment works well. There are some
9 public comment sessions on the schedule
10 tomorrow, so I hope many of you will be able to
11 be here. Thank you very much. We're recessed
12 till tomorrow.

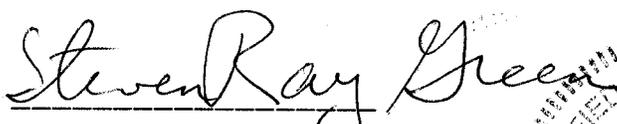
(Whereupon, an adjournment was taken to
Tuesday, Feb 8, 2005.)

C E R T I F I C A T E O F C O U R T R E P O R T E R**STATE OF GEORGIA****COUNTY OF FULTON**

I, Steven Ray Green, Certified Merit Court Reporter, do hereby certify that I reported the above and foregoing on the day of February 7, 2005; and it is a true and accurate transcript of the testimony captioned herein.

I further certify that I am neither kin nor counsel to any of the parties herein, nor have any interest in the cause named herein.

WITNESS my hand and official seal this the 2nd day of March, 2005.


STEVEN RAY GREEN, CCR
CERTIFIED MERIT COURT REP9 TELk
CERTIFICATE NUMBER: A-21`2

