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NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH

convenes the

MEETING 42

ADVISORY BOARD ON
RADIATION AND WORKER HEALTH

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The verbatim transcript of the 42nd
Meeting of the Advisory Board on Radiation and
Worker Health held at the Holiday Inn Select,
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C O N T E N T S

Dec. 11, 2006

WELCOME AND OPENING COMMENTS	7
DR. PAUL ZIEMER, CHAIR	
DR. LEWIS WADE, DESIGNATED FEDERAL OFFICIAL	
MONSANTO CHEMICAL CO. SEC PETITION	14
MR. LAVON RUTHERFORD, NIOSH/OCAS	
GENERAL ATOMICS SEC PETITION	80
MR. LAVON RUTHERFORD, NIOSH/OCAS	
STATUS OF UPCOMING SEC PETITIONS	101
MR. LAVON RUTHERFORD, NIOSH/OCAS	
FEED MATERIALS PRODUCTION CENTER (FERNALD)	
LOS ALAMOS NATIONAL LAB	
BETHLEHEM STEEL	
HANFORD	
SANDIA NATIONAL LAB - LIVERMORE	
DOW CHEMICAL CO.	
SUBCOMMITTEE REPORT	128
MR. MARK GRIFFON, CHAIR	
PUBLIC COMMENT	144
COURT REPORTER'S CERTIFICATE	204

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-- "*" denotes a spelling based on phonetics, without reference available.

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P R O C E E D I N G S

(1:22 p.m.)

WELCOME AND OPENING COMMENTS**DR. PAUL ZIEMER, CHAIR**

1 **DR. ZIEMER:** Good afternoon, everyone. I'd like to
2 call the meeting to order. This is the 42nd
3 meeting of the Advisory Board on Radiation and
4 Worker Health, meeting in Naperville, Illinois.
5 And I feel like I can welcome you to
6 Naperville. This is actually my old stomping
7 grounds since I went to college about ten miles
8 from here down the road in Wheaton College. Of
9 course in those days Naperville Road between
10 here and Wheaton was a gravel road, so the
11 area's changed a bit since those days, but
12 nonetheless it feels like home to be back in --
13 in the Naperville area.
14 My usual reminders to everyone, please register
15 your attendance in the booklet out in the
16 foyer. Those members of the public who wish to
17 address the Board during the public comment
18 sessions, please sign up in the book out there
19 for that purpose. On the tables in the rear of
20 the room are various documents that will be

1 part of our deliberations over the next three
2 days. Be sure you have whatever copies you
3 need, as well as copies of the agenda.

4 The agenda is not necessarily a time-fixed
5 agenda or a time certain agenda. We always
6 have to estimate how long various issues will
7 take. But we are flexible enough to be able to
8 adjust the agenda as the need arises. There is
9 one somewhat fixed-time item, and that is for
10 tomorrow. To the best of our understanding,
11 Senator Obama will be here at 11:15 tomorrow
12 morning. So to the extent that he's able to
13 keep on that schedule, wherever we are in the
14 agenda, we will interrupt at that point and
15 have the opportunity to hear him as he wishes
16 to address the Advisory Board.

17 Now let me call on Dr. Lewis Wade, our
18 Designated Federal Official, for additional
19 comments.

20 **DR. WADE:** Thank you, Paul. Let me start as I
21 always do -- I hope I do -- and always end, and
22 that is to thank the Board for its service.
23 You are a most productive and hard-working
24 Board, and we thank you for that. I bring you
25 regards and thanks from Secretary Leavitt,

1 Secretary of HHS; and then from Dr. Gerberding,
2 the director of CDC; and then John Howard, the
3 NIOSH director. John will be with us for part
4 of this meeting, and if you see him and you
5 want to share some thoughts with him, please
6 feel free to do that.

7 A couple of things -- we have also another
8 distinguished guest, Elaine Baker with
9 Committee Management from CDC is with us, and
10 Elaine's going to chat with you tomorrow. You
11 said that you wanted to have an opportunity to
12 chat with people from Committee Management, so
13 we sent our best and brightest and Elaine is
14 here and will engage with you tomorrow.

15 A couple of sort of quirks of the agenda. At
16 1:45 on Wednesday we have a time that we're
17 calling SEC write-up review. This was put in
18 on the recommendation of Dr. Melius and others.
19 The Board works very hard at doing its SEC
20 drafting in real time during the meetings, and
21 we thought it would be well to reflect, just
22 before the Board adjourned, to look at whether
23 or not there should be any changes or
24 modifications to the Board's recommendations.
25 That will give NIOSH and Department of Labor

1 and the attorneys an opportunity to look at the
2 motions and the language, and if there's any
3 wisdom they want to bring to the Board, they
4 can bring it to the Board while the Board is
5 still in session so the Board can make those
6 changes.

7 And then also at 3:15 on Wednesday we have an
8 ample amount of Board working time. This will
9 be to look at scheduling additional meetings,
10 you know, the variety of issues that the Board
11 needs to work on, and also any items that we're
12 not able to finish on time in the agenda we'll
13 be able to take up on Wednesday afternoon.
14 So again, thank you for your service. I look
15 forward to a busy and a most productive Board
16 meeting.

17 **DR. ZIEMER:** Thank you very much, Lew. And let
18 me add, as far as the item on Wednesday
19 afternoon's agenda, the SEC write-up review,
20 that becomes important because our experience,
21 we've had several motions by this Board which
22 we found after the fact, when the Chair got to
23 the point of writing them on a formal
24 letterhead and transmitting them to the
25 Secretary, that there were some glitches either

1 in how we defined the -- the petitioners versus
2 how they were defined by NIOSH, or there was
3 some other perhaps questionable references to
4 federal documents -- glitches which were
5 correctable, but we hate to actually, after the
6 fact, change the action of the Board in terms
7 of approved wording. So this will give us an
8 opportunity, if we do have approved motions
9 today and tomorrow, to go back and say okay, is
10 there anything that causes discomfort from
11 either NIOSH or the petitioners or the -- our
12 counselors, our attorneys, so that will be
13 important. So in a sense we will -- if there
14 are appropriate motions on these SEC petitions
15 -- well, any motion is appropriate, but if
16 there are motions, we will in a sense consider
17 them provisional in the sense that you will
18 have a final opportunity to -- to take a relook
19 at the wording later in the meeting and take
20 care of any glitches that might arise.

21 **DR. WADE:** And maybe just to follow up a little
22 bit more, the Board obviously is in a phase of
23 its operations where dealing with SEC petitions
24 and making recommendations to the Secretary is
25 a large part of what the Board is doing. The

1 precise wording of those determinations and
2 recommendations become very important. The
3 Board has talked about the fact that the HHS
4 Secretary makes a definition of class based
5 upon a recommendation it would receive from
6 this Board, and then the Department of Labor
7 determines eligibility. Those are questions
8 that carry with -- with them great significance
9 in terms of how things play out, and I know
10 that the Board wants to reflect upon those
11 issues. And this will give us an opportunity
12 at the end of each meeting to reflect on those
13 issues, particularly in light of lessons we've
14 learned from actions that might have been
15 completed a Board meeting or two earlier. So
16 this becomes more and more an important
17 exercise for the Board in terms of definition,
18 and that's why we wanted to revisit it, and
19 we'll make this a regular part of every Board
20 meeting.

21 **DR. ZIEMER:** Thank you. For the record, let us
22 just show that all Board members are present,
23 with the exception of Dr. Poston -- who we
24 understand ran into some weather problems and
25 perhaps will still be arriving, but arriving

1 late -- and Wanda Munn -- who is here, but ran
2 into some logistical problems and -- well, I
3 don't need to get into what they are, but she
4 will rejoin us sometime yet this afternoon.

5 **DR. WADE:** I would ask if Dr. Poston might be
6 on the phone. Is Dr. Poston on the phone?

7 (No responses)

8 Okay, fine. We have a quorum of the Board.

9 **DR. ZIEMER:** We do know that he was planning to
10 be here and apparently ran into some weather
11 problems as far as his flights were concerned,
12 so perhaps he will arrive yet as we continue.

13 At the front end of our deliberations here
14 today we have two SEC petitions to deal with.
15 The first of these is the Monsanto Chemical
16 Company petition, and the second is the General
17 Atomics SEC petition. And LaVon Rutherford
18 from NIOSH is going to make both presentations
19 in terms of the NIOSH evaluation report.

20 Let me ask, though, before LaVon begins -- Dr.
21 Wade, are you aware of any of the petitioners
22 that are present or planned -- or wished to be
23 present by either phone or in person?

24 **DR. WADE:** To the best of my knowledge, for
25 both of these actions there are no petitioners

1 who have asked to speak or we are expecting to
2 speak, although certainly we would welcome
3 petitioners or their representatives for either
4 of these petitions to speak after LaVon would
5 conclude his presentation.

MONSANTO CHEMICAL CO.SEC PETITION
MR. LAVON RUTHERFORD, NIOSH/OCAS

6 **DR. ZIEMER:** Okay. So with that, let's begin
7 with Monsanto Chemical Company.

8 **MR. RUTHERFORD:** All right. Am I on? Can you
9 hear me? Okay, thank you, Dr. Ziemer and the
10 rest of the Board for giving me this
11 opportunity to present on behalf of NIOSH and
12 our evaluation of the Monsanto Chemical Company
13 Special Exposure Cohort petition.

14 Petition -- we received the petition on January
15 9th of this year. The petition went through
16 the qualification process and was qualified on
17 May 1st of this year. We went through the
18 evaluation process and completed our evaluation
19 on November 7th, provided the evaluation to the
20 petitioner and to the Board on that day.

21 The petition was submitted to NIOSH on behalf
22 of the class, as required by the rule. The
23 initial class definition was directors and
24 subordinates, physicists, chemists, technicians

1 and workers that worked at Monsanto Chemical
2 Company in Dayton, Ohio during the period from
3 1943 to 1949. We initially qualified the
4 petition based on a lack of monitoring data.
5 The petitioners supplied that basis in their
6 petition. We reviewed that and we agreed with
7 that.

8 At the time of the evaluation there were 61
9 claims that we felt met the current Monsanto
10 Chemical Company class definition. That may
11 have changed slightly between completion of the
12 report and now, but roughly 61 claims.

13 The Monsanto Chemical Company was contacted by
14 the Manhattan Engineering District in 1943 to
15 support the development of the atomic bomb.
16 They were asked to produce neutron sources that
17 would be used in the trigger assemblies for the
18 atomic bomb. The neutron sources, you know,
19 that they looked at using were mainly polonium
20 -- polonium, beryllium sources that -- as well
21 as they did research and development work on
22 other sources.

23 The -- initially they extracted the polonium
24 from lead oxide, which is a uranium ore
25 byproduct. The actual -- in Port Hope* they

1 removed the radium, the lead oxide was
2 basically a byproduct. Then -- then they
3 recognized that that process was very
4 inefficient process. They did not -- they were
5 unable to extract a large quantity of polonium
6 and there was a lot of work done at the time
7 with -- looking at irradiating bismuth --
8 bismuth-209, irradiating bismuth-210, 210
9 decays to the polonium, and so they -- they
10 recognized that that process was a much more
11 efficient process and they could get a lot more
12 quantity.

13 So started out with the actual -- using lead
14 oxide extraction process and moved to the -- to
15 the -- extracting polonium from the irradiated
16 bismuth.

17 When NIOSH did our -- when we did our
18 evaluation there were a number of sources of
19 information that we -- that we looked at to try
20 to -- to determine whether dose reconstruction
21 was feasible or not. We looked at Technical
22 Information Bulletins from the -- you know,
23 that our contractor, ORAU, had developed. We
24 looked at the Mound site profile and -- and --
25 Monsanto Chemical Company was the predecessor

1 to the Mound site and a lot of the information
2 on Monsanto Chemical Company early years is
3 contained within our Mound site profile.
4 We interviewed former Monsanto employees to --
5 to discuss with them potential exposure
6 scenarios, what they could tell us during --
7 during the class period. We looked at case
8 files in the NIOSH databases. We reviewed the
9 site research documents in the site research
10 database, and we looked at documents and
11 affidavits provided by the petitioner.
12 In addition, we looked at the polonium
13 reconstruction database. This is a database of
14 polonium bioassay data that was put together
15 for Monsanto Chemical Company workers, as well
16 as Mound workers. We looked at the CEDR
17 database, we looked at Monsanto Chemical
18 Company progress reports, and we looked at some
19 FUSRAP information.
20 Monsanto Chemical Company employees were
21 exposed both internally and externally from --
22 during the production of neutron sources,
23 performing laboratory research operations that
24 supported the development of polonium
25 extraction processes, and the production of

1 polonium neutron sources. In addition they did
2 research on operations with thorium and uranium
3 -- excuse me, that should say thorium and
4 radium, that's -- make that correction. And
5 they did -- exposure as well to ore byproducts.
6 The principal external exposures, there was a -
7 - high beta dose rates from the decay of the
8 bismuth-210 from the irradiated bismuth slugs.
9 You had neutron exposure from the neutron
10 sources. You had photon exposure during the
11 polonium production processes, as well as X-ray
12 exposures from diagnostic X-ray procedures.
13 Principal internal exposures were from
14 polonium, impurities in the lead oxide --
15 uranium and uranium progeny -- activation
16 products, and then research and development
17 work with the thorium and radium.
18 All right, availability of dosimetry data.
19 External monitoring data, we have external
20 monitoring data starting in February of 1944 to
21 the end of the class period. However, there is
22 one problem with that. The data -- when --
23 when -- during the time period when the
24 workers' exposure data was logged, it was
25 logged numerically and there was a code key

1 developed for that numerical logging of the
2 data. Those code keys were lost. However, the
3 data is available.

4 We have extremity data from finger rings from
5 the -- February as well to the end of the
6 project, and there is no neutron monitoring
7 data prior to September of 1949.

8 Internal monitoring data, records indicate that
9 bio-- you know, that the -- routinely they took
10 bioassay samples for polonium from 1944 through
11 '49. We have a large database, as mentioned
12 earlier, with polonium bioassay data.

13 There's limited general area monitoring data.
14 There's some blood sample data. They initially
15 actually looked at the comparison, they -- they
16 took blood -- what happened to my screen?

17 (Pause)

18 That's it. Okay, we know how to fix that now.
19 You know, the thing is that you see it right
20 here, so I didn't know it went out.

21 But internal monitoring data -- internal
22 monitoring data. As I mentioned, we have bio--
23 polonium bioassay data. The blood samples, as
24 I was discussing earlier, the blood samples --
25 they actually looked at -- initially when they

1 were looking at measuring the levels of
2 polonium in an individual, they looked at both
3 bioassay from urine and from blood. They
4 actually measured activity in the blood.
5 However, this is -- there's few samples in this
6 method and they determined that their -- that
7 urine bioassay was a better method during that
8 time.

9 We have no internal monitoring data for
10 radionuclides other than polonium.

11 Our evaluation process is a two-pronged
12 process. First we look -- we determine whether
13 it's feasible to -- whether dose reconstruction
14 is feasible or not. If dose reconstruction is
15 feasible, we don't have to go to that next step
16 of determining health endangerment. If dose
17 reconstruction is not feasible, then we must go
18 to that next step and determine whether there
19 was health endangerment.

20 NIOSH found that, based on the available
21 monitoring records, process description and
22 source term data are insufficient to complete
23 dose reconstruction for the proposed class
24 period.

25 NIOSH currently lacks access to sufficient

1 monitoring, source term and process information
2 to estimate the internal doses from
3 radionuclides other than polonium and the
4 neutron external exposures.

5 NIOSH found that the available internal
6 monitoring data, process description and source
7 term data are sufficient to reconstruct
8 occupational internal doses from polonium.
9 And we found that with the available external
10 monitoring data is sufficient to complete dose
11 reconstructions of the external beta/gamma
12 components, including medical X-ray.

13 NIOSH determined that it is not feasible to
14 complete dose reconstructions with sufficient
15 accuracy for the -- for the class, and that
16 health endanger-- and health of the employees
17 was potentially endangered.

18 The evidence reviewed indicates that the
19 workers in the class received chronic internal
20 and external exposures from production and
21 research operations with neutron sources.

22 Our proposed class definition is all atomic
23 weapons employees -- oh, man, did I do it
24 again?

25 (Pause)

1 Okay, they're going to take this thing away
2 from me.

3 Again, all atomic weapons employees who were
4 monitored, or should have been monitored, while
5 working in the Monsanto Chemical Company Units
6 I, III or IV in Dayton, Ohio for a number of
7 work days aggregating at least 250 work days
8 during the period of January 1, 1943 through
9 December 31, 1949, or in a combination with
10 work days within the parameter established for
11 other classes of the employees in the SEC.
12 That's the entire covered period.

13 In summary, internal -- we feel dose
14 reconstruction is feasible for polonium
15 exposures. We feel dose reconstruction is not
16 feasible for other radionuclides.

17 External exposures are feasible for beta/gamma
18 and occupational medical X-rays. However,
19 external exposures from neutrons are not
20 feasible.

21 And our recommendation, as mentioned
22 previously, January 1, 1943 through December
23 31, 1949.

24 That's it.

25 **DR. ZIEMER:** Okay, thank you. This is now open

1 for discussion. LaVon, let me ask a couple of
2 questions here at the front end. First of all,
3 on the so-called code -- I'm looking for the
4 terminology that you used --

5 **MR. RUTHERFORD:** The code key?

6 **DR. ZIEMER:** -- code key --

7 **MR. RUTHERFORD:** Yes.

8 **DR. ZIEMER:** -- the rosetta stone of --

9 **MR. RUTHERFORD:** Yes.

10 **DR. ZIEMER:** -- Monsanto. Is the code key --
11 this is presumably a list of the workers that
12 would match up with some unknown numbers in the
13 --

14 **MR. RUTHERFORD:** Well, what it is -- the actual
15 monitoring data is there, but what it -- what
16 they did, and I don't know if it was because of
17 privacy or -- but they -- when they logged
18 exposures, they logged them to the individual
19 and gave that individual a numerical number,
20 and then --

21 **DR. ZIEMER:** Right, so you have the numbers and
22 the amounts --

23 **MR. RUTHERFORD:** Right, we have the numbers --

24 **DR. ZIEMER:** -- but the key is missing.

25 **MR. RUTHERFORD:** The key for that is missing.

1 **DR. ZIEMER:** Okay.

2 **MR. RUTHERFORD:** However -- and that is for
3 both beta and gamma.

4 **DR. ZIEMER:** All right. Now in the summary
5 table where you indicate dose reconstruction is
6 feasible for polonium and for external, would
7 that still be dependent on this key, or are you
8 --

9 **MR. RUTHERFORD:** No --

10 **DR. ZIEMER:** -- saying you could do that --

11 **MR. RUTHERFORD:** -- I think --

12 **DR. ZIEMER:** -- in terms of classes of workers?

13 **MR. RUTHERFORD:** Right, with -- what we feel is
14 the data is there and the data can be used for
15 developing a coworker model for -- for doing
16 the beta/gamma portion of it. But there is no
17 neutron monitoring data at all. That's why
18 neutrons are separated out as -- you know.

19 **DR. ZIEMER:** And then let me also ask this. In
20 one of your slides you say that NIOSH currently
21 lacks access to sufficient monitoring, et
22 cetera.

23 **MR. RUTHERFORD:** Right.

24 **DR. ZIEMER:** The --

25 **MR. RUTHERFORD:** That doesn't --

1 **DR. ZIEMER:** -- the implication there, I'd like
2 to find out what that means --

3 **MR. RUTHERFORD:** It's probably --

4 **DR. ZIEMER:** -- this is not classified data.

5 **MR. RUTHERFORD:** Correct. Correct.

6 **DR. ZIEMER:** So when you say you lack access --

7 **MR. RUTHERFORD:** Right.

8 **DR. ZIEMER:** -- does that --

9 **MR. RUTHERFORD:** That was poorly --

10 **DR. ZIEMER:** -- imply that somebody's keeping
11 data from you?

12 **MR. RUTHERFORD:** Yeah, I -- I apologize. That
13 should say that -- that currently that
14 information is unavailable. We -- it may
15 exist. We continue -- as we go through the
16 project, we continue to get more and more
17 information. However, at this time we do not
18 have that information, so that should say --

19 **DR. ZIEMER:** There's not a --

20 **MR. RUTHERFORD:** Right.

21 **DR. ZIEMER:** -- chunk of data sitting somewhere
22 and you just can't get at it.

23 **MR. RUTHERFORD:** No, there's not.

24 **DR. ZIEMER:** Dr. Melius.

25 **DR. MELIUS:** Yeah, a follow-up to Paul's

1 question on the external monitoring. If the
2 key's lost, is there any -- do you have
3 information on job title or building or
4 something, or is it entirely lost?

5 **MR. RUTHERFORD:** It's entirely lost.

6 **DR. MELIUS:** The -- then --

7 **MR. RUTHERFORD:** What you would have -- what we
8 would be doing with the beta/gamma external
9 exposures developing a coworker model would be
10 to look -- I mean setting up a distribution
11 that we could use to -- that we could give to
12 everyone for an external.

13 **DR. MELIUS:** So what model -- it's all
14 basically --

15 **MR. RUTHERFORD:** Yes. Yes.

16 **DR. MELIUS:** -- information on how the sampling
17 was done, how the people were selected or -- I
18 mean my question I guess.

19 **DR. ZIEMER:** Well, you're not proposing to do
20 that, though.

21 **MR. RUTHERFORD:** No, no, what I'm saying is
22 that that's what we could do -- possibly do
23 with that information.

24 **DR. MELIUS:** Okay.

25 **DR. ZIEMER:** Also, I might observe that during

1 this time frame there were no legal
2 requirements for lifetime doses on people.
3 They were typically weekly limits, so you could
4 -- you could have a different code key every
5 week, as long as your -- as long as you showed
6 the person was under their limit for that week,
7 that's all you cared about and there was no --
8 there was no reason to think that someone would
9 have the same numbered badge every week.

10 **MR. RUTHERFORD:** Exactly.

11 **DR. MELIUS:** Yeah.

12 **DR. ZIEMER:** And I base that on our experience
13 at -- at my institution in the late '50s. It
14 didn't matter who had a particular number
15 because it could be different every time. You
16 were only interested in that period.

17 **MR. GRIFFON:** And that -- that raises a follow-
18 up question for me, which is -- you know, do
19 you have any way of determining the
20 representativeness of -- of the data you do
21 have if -- you know, I was thinking you could
22 at least determine how many individuals were
23 monitored by sorting by the code key. But what
24 -- but if what Paul's saying is true, you can't
25 do that even. Have you examined -- you know,

1 is there enough data there that you can say
2 we're confident that we can reconstruct
3 external doses for all the workers at the site.
4 That's -- that's -- that's the benchmark that
5 you have to test against.

6 **MR. RUTHERFORD:** I understand.

7 **MR. GRIFFON:** Yeah.

8 **MR. RUTHERFORD:** I think what we're saying is
9 is that we feel that we can set up a favorable
10 exposure scenario based on the information for
11 -- that will cover all the employees, assuming
12 -- I mean that obviously takes into
13 consideration that -- that the higher exposed
14 individuals were monitored.

15 **MR. GRIFFON:** Or it assumes that, yeah.

16 **MR. RUTHERFORD:** Yeah, that's what I said,
17 that's assuming the highest --

18 **DR. ZIEMER:** What I'm saying is you don't have
19 a guarantee that --

20 **MR. RUTHERFORD:** No.

21 **DR. ZIEMER:** -- badge number 13 was always the
22 same person.

23 **MR. RUTHERFORD:** No. No. No.

24 **MR. GRIFFON:** I guess the other concern I would
25 have is -- I -- you may not even be sure that

1 you have the -- the whole set of data there,
2 you know.

3 **MR. RUTHERFORD:** That's true.

4 **MR. GRIFFON:** Right.

5 **DR. MELIUS:** Well, this may relate to --

6 **DR. WADE:** Could you put the microphone a
7 little closer, please?

8 **DR. MELIUS:** This may relate to the same issue,
9 but Table 4.1 in the evaluation report refers
10 to the fact that of the 60 total claims that
11 have been submitted from this group that -- if
12 I understand that right -- you've completed
13 dose reconstructions on 40 of them -- 41?

14 **MR. RUTHERFORD:** That's correct.

15 **DR. MELIUS:** Yeah. And so could someone sort
16 of explain that table to me?

17 **MR. RUTHERFORD:** Well, I -- I haven't reviewed
18 those claims to look at how many of them were
19 compensated and how many were of -- I mean how
20 many were greater than 50 percent, and a number
21 of those could have also been workers that
22 worked later in the years at Mound facility and
23 they used some -- used their Mound bioassay
24 data to back-extrapolate internal exposures.
25 Now I didn't review those claims.

1 **DR. MELIUS:** Okay, 'cause -- 'cause there are -
2 - I mean there -- there's actually a footnote
3 there that -- I'll read into the record.

4 (Reading) Only 16 of the claims just have MCC
5 employment. The other claims ha-- the other 45
6 claims have MCC and Mound covered employment.
7 And apparently -- well, it's unclear. Maybe
8 Larry, you can explain that second sentence.
9 I'm not sure exactly what the number re-- the
10 clause refers to, so... I've got it right
11 here.

12 **DR. ZIEMER:** Well, they were -- the ones that
13 were greater than 50 percent with the usual
14 underestimate procedure --

15 **MR. ELLIOTT:** If we look at only the --

16 **DR. ZIEMER:** -- that's adequate --

17 **MR. ELLIOTT:** If we look at only claims that
18 have Monsanto work experience, there are 16 of
19 those. And of those 16, there were -- there
20 have been three dose reconstructions, two of
21 which have been found to be greater than 50
22 percent and the other one has been held and
23 sent back to us for this particular class. It
24 was found non-compensable.

25 The others that you're talking about of the 61

1 have more Mound experience than they have
2 Monsanto experience and they were reconstructed
3 with the Monsanto (sic) exposure data.

4 **DR. MELIUS:** Uh-huh.

5 **MR. ELLIOTT:** That's how they were done.

6 **DR. MELIUS:** Okay. So --

7 **MR. ELLIOTT:** But they prob-- they have -- of
8 course of that 61, if they have time in this
9 class, they will be sent back to us for
10 processing under this class.

11 **MR. RUTHERFORD:** Exactly.

12 **DR. ZIEMER:** Gen Roessler?

13 **DR. ROESSLER:** This is a side comment, but you
14 don't normally care a lot about polonium-210.
15 Recent -- recently various groups, the Health
16 Physics Society, the CDC, Health Protection
17 Agency in the UK, have all been trying to get
18 information on how it's produced, where it
19 might be used, the biological effects, the
20 monitoring techniques. And it appears that you
21 have become an expert --

22 **MR. RUTHERFORD:** I wouldn't say I'm --

23 **DR. ROESSLER:** -- on the subject --

24 **MR. RUTHERFORD:** -- an expert.

25 **DR. ROESSLER:** -- but -- but you certainly have

1 learned a lot about it in a --

2 **MR. RUTHERFORD:** Yes.

3 **DR. ROESSLER:** -- in a place where it seems
4 very early on they recognized that this was an
5 important radionuclide because they did do the
6 bioassay. I find that very interesting.

7 **MR. RUTHERFORD:** Yes, they actually did some
8 bi-- they also did some biological effects
9 work, as well -- small scale, but some
10 biological effects work there done with -- with
11 animals.

12 **DR. ZIEMER:** All right. Wanda Munn.

13 **MS. MUNN:** Just a matter of curiosity, and I
14 can't even find the numbers that I had seen
15 originally in the SEC write-up. I remember
16 there were a large number of bioassays that
17 covered something like 1,600 employees --

18 **MR. RUTHERFORD:** 1,600 employees during the '43
19 to -- or during that '43 to '49 period.

20 **MS. MUNN:** During that period. But I had no
21 feel for what the total number of employees at
22 Monsanto was during that time. Do you have --

23 **MR. RUTHERFORD:** I have -- I mean what I've
24 read -- the first year they ramped up, they
25 were over 200 employees before the end of the

1 first year, and I -- but I -- I kind of
2 anticipated that question. I went back and I
3 haven't been able to come up with an exact
4 number that they got up to, you know, for -- by
5 the end of '49, but --

6 **MS. MUNN:** But do you have a feel for what
7 range that would have been? I'm not looking
8 for an exact number.

9 **MR. RUTHERFORD:** I think there were around 300
10 or 400 employees, and it -- and it steadily
11 went up to when they switched operations to --
12 to the Mound facility, because if you look at
13 the chronology of when the facilities were
14 constructed or when they were designating Units
15 I, Units II, Units III and Units IV, you know,
16 Unit I, the first 200 people were -- were
17 working in Unit I and then they recognized they
18 were going to need more room and they add Unit
19 -- Unit II was a completely separate facility
20 that did rocket propellant work, but then Unit
21 III was added and Unit IV was added because of
22 the increasing -- and not only staffing, but
23 the production processes and the amount of
24 production that was required.

25 **MS. MUNN:** I guess the point of my question was

1 I was trying to get some feel for approximately
2 what portion of the total workforce might have
3 been involved in that 1,600 number that was the
4 total number of individuals in...

5 **MR. RUTHERFORD:** I -- I could find that out for
6 you.

7 **MS. MUNN:** Well, it's not that crucial. I just
8 wanted --

9 **MR. RUTHERFORD:** Right.

10 **MS. MUNN:** -- I wanted to try to --

11 **MR. RUTHERFORD:** I would expect --

12 **MS. MUNN:** -- imagine in my mind whether it was
13 more than half, less than a bushel, you know.

14 **MR. RUTHERFORD:** Yeah. Like I said, I would
15 expect -- you know, I know the first year they
16 were 200, and then as they increased to late
17 '49, when they were shifting over to -- to the
18 Mound facility, I'm sure it was eight -- 800 to
19 1,000 employees, could be as high
20 (unintelligible).

21 **MS. MUNN:** Right. Thank you.

22 **DR. ZIEMER:** Jim, did you have an additional
23 question?

24 **DR. MELIUS:** Yeah, I actually have some
25 additional questions. One is, could -- since

1 the petitioner's not available here, could
2 someone from NIOSH describe their interaction
3 with the petitioner? Did they --

4 **MR. RUTHERFORD:** Yes.

5 **DR. MELIUS:** And as to whether you also reached
6 out to other people who worked at the site and
7 --

8 **MR. RUTHERFORD:** Yes.

9 **DR. MELIUS:** -- so forth, might be claimants,
10 just for the record.

11 **MR. RUTHERFORD:** Yeah, what we -- what we did
12 was actually, in addition to contacting -- or
13 the contacts with the petitioner, we
14 interviewed former Monsanto Chemical Company
15 employee -- we actually set up a -- a couple of
16 meetings and got some of the old -- older
17 workers. They have a -- a group, a
18 organization that -- I can't remember the name,
19 Mike might know the name, I'm not sure -- but
20 there's a group that -- they meet routinely and
21 we got with them, we got with kind of their
22 leader of that group. We got some names of
23 individuals that worked during that period from
24 them and we interviewed seven of those people
25 that worked during that period.

1 **DR. MELIUS:** Thanks.

2 **MR. RUTHERFORD:** But also with the petitioner -
3 - when we sent the petitioner the report, we
4 also informed the petitioner of the upcoming
5 Board meeting and obviously offered them
6 opportunity to speak on behalf of their
7 petition.

8 **DR. MELIUS:** Thanks.

9 **DR. ZIEMER:** Any further questions or comments?

10 **DR. WADE:** I would just ask again if the
11 petitioner or anyone representing the
12 petitioner is on the line.

13 **MS. (UNINTELLIGIBLE):** Yes, Mary Alice
14 (Unintelligible).

15 **MR. PRESLEY:** There's somebody. Can you turn
16 it up?

17 **DR. ZIEMER:** There may be somebody.

18 **DR. WADE:** Could you speak up, please?

19 **MS. (UNINTELLIGIBLE):** Yes, this is Mary Alice
20 (Unintelligible), and I'm the petitioner for
21 the class.

22 **DR. ZIEMER:** Did you have some comments, ma'am?

23 **MS. (UNINTELLIGIBLE):** Presently I don't have
24 many more comments concerning the information
25 that was given and I would like to -- I don't -

1 - I have in the library -- the amount of
2 persons who were employed went up very rapidly
3 so that the 1,600 number would be possible for
4 that group from 1943 to 1949. After that there
5 were many more who worked on different projects
6 that probably would (unintelligible) at the
7 Mound -- that you probably have found out from
8 the Mound material. Outside of that, I'd like
9 to thank the Board for accepting this petition
10 and to the members of NIOSH who have
11 contributed to the process to bring it up to
12 this stage. And I never take anything for
13 granted, so that I would hope for the people
14 who are involved that they -- that it will
15 succeed with going through the process. Thank
16 you.

17 **DR. ZIEMER:** Thank you very much. Go ahead,
18 Mark and then Jim.

19 **MR. GRIFFON:** Yeah, I -- just looking back at
20 the internal dose question for a second, you
21 have a lot of polonium data. It mentions here
22 that you have some air monitoring data and I --
23 and -- and some breathing zone air sampling
24 starting in '45, actually. I mean it -- I'm
25 assuming a lot of that was gross alpha type

1 data.

2 **MR. RUTHERFORD:** Yeah, there was --

3 **MR. GRIFFON:** Were there any attempts made to
4 (unintelligible) --

5 **MR. RUTHERFORD:** To try to bound that?

6 **MR. GRIFFON:** Yeah.

7 **MR. RUTHERFORD:** Yeah, we looked at that. The
8 problem we had with the air monitoring data
9 that we had, it was very, very spotty. I mean
10 there were a few samples here and there, and it
11 wasn't indicative of whether any samples were -
12 - were general area, not always general area
13 samples or even -- they could -- some of them
14 even indicat-- looked like they were actually
15 production type samples, more of samples to see
16 how much material was in a -- in that vicinity
17 of the production process, so -- so we couldn't
18 -- based on the air sampling data that we had,
19 we couldn't come up with a viable method.

20 **MR. GRIFFON:** And not enough information on
21 source term --

22 **MR. RUTHERFORD:** Correct.

23 **MR. GRIFFON:** -- I'm assuming, same --

24 **MR. RUTHERFORD:** Correct.

25 **DR. ZIEMER:** And is it safe to assume then

1 there also is not particle size data --

2 **MR. RUTHERFORD:** No.

3 **DR. ZIEMER:** -- in the air samples.

4 **MR. RUTHERFORD:** No.

5 **DR. ZIEMER:** Did you have an additional --

6 **DR. MELIUS:** Yeah. My question concerns some
7 of the discussion on page 30 of the report, and
8 I guess my question's revolving around were
9 there any acute exposure incidents that -- that
10 occurred at the facility and -- I think as you
11 know, we're --

12 **MR. RUTHERFORD:** Yes.

13 **DR. MELIUS:** -- another -- another workgroup of
14 the Board is addressing that. We're sort of
15 wrestling with how to define those and -- and
16 so forth, so the first italicized paragraph on
17 the bottom of that page drew my attention
18 because it mentioned a -- an incident with a
19 low blood count --

20 **MR. RUTHERFORD:** Yes.

21 **DR. MELIUS:** -- which was one of the sort of
22 criteria we had talked about as sort of somehow
23 indicating exposure. And I guess my question
24 is is do these -- do the subsequent paragraphs
25 at the bottom of the page, statements in a

1 report -- later report, do they refer to the
2 same incident or these --

3 **MR. RUTHERFORD:** What they actually end up --
4 if you read them all, it ends up that the
5 individual with the low blood count, they could
6 find no radiological reason for that. The
7 polonium activity in the samples were all low
8 and they determined that it may -- it must be
9 actual -- some kind of medical condition that
10 was -- that they probably had low -- their --
11 normally have a low blood count. There's a
12 number of reports on that, as well. But I
13 think Dr. Melius brings up a -- you know, the
14 good quest-- or good point about the incidents.
15 I mean obviously with the polonium exposures
16 that we've had in the news and recognizing this
17 -- it only takes a small amount, the reason we
18 did not, you know, look at a -- adjusting the -
19 - you know, or looking at say an acute exposure
20 scenario is because we said we could do
21 polonium dose reconstruction. And from -- from
22 that work part of it, and -- and the fact that
23 we -- we -- in the records there were no
24 records that indicated a low white blood count
25 from an exposure of polonium that -- that we've

1 seen. They were looking at it. They
2 definitely looked at -- they took blood
3 analysis on -- on workers, but we did not see
4 that.

5 **DR. MELIUS:** Thanks.

6 **DR. ZIEMER:** It appears there are no further
7 questions. Do any of the Board members wish to
8 make a recommendation relative to this petition
9 and the NIOSH evaluation?

10 **MR. PRESLEY:** (Unintelligible) ready to accept
11 (unintelligible).

12 **DR. ZIEMER:** Dr. Melius?

13 **DR. MELIUS:** I'll start by not offering a
14 letter or a complete motion, but in terms of a
15 recommendation is I would say I'm comfortable
16 accepting the general recommendation of NIOSH
17 for the lack of feasibility of doing dose
18 reconstruction for this group. I still have
19 some questions about the issue of what they can
20 do, particularly whether they can reconstruct
21 external doses adequately given some of the
22 discussion here. I just think it's, and if you
23 remember, we've been -- in several of our more
24 recent recommendations we've been specifically
25 addressing what -- what NIOSH can do, what --

1 what doses can be reconstructed. And I guess I
2 -- I think it may be premature to -- at least
3 for the Board to -- to commit on that issue,
4 and I guess I also have some questions about
5 the definition and -- and so forth which may be
6 something we're going to discuss later in the -
7 - sort of the general issues of how do you
8 define the class in terms of making it sort of
9 operational from a Department of Labor point of
10 view -- perspective on this, but...

11 **DR. ZIEMER:** Well, okay. This is kind of a
12 suggested motion to approve --

13 **DR. MELIUS:** Yeah.

14 **DR. ZIEMER:** -- but before we do that, let me
15 ask a question that perhaps will help us
16 clarify. If -- if the Board supports the
17 recommendation of NIOSH, is it necessary that
18 we address issues of, for example, can you do
19 external? Because if someone is in the class
20 but has a cancer other than a presumptive
21 cancer, can they not go back -- in any event,
22 regardless of what we say -- and petition for a
23 dose reconstruction for that cancer, or do we
24 have to say something in the document?
25 For example, if it was clear that they had

1 external exposure and -- or polonium exposure
2 and -- and for that individual you could do a
3 dose reconstruction and say found that the dose
4 was say sufficient for -- for an award of a
5 different cancer, is it necessary that we have
6 said something about that in advance?

7 **MR. ELLIOTT:** Well, it's certainly your
8 prerogative if you wish to say something --

9 **DR. ZIEMER:** But is it necessary?

10 **MR. ELLIOTT:** -- but we feel that we have --
11 have characterized what we can ex-- what we can
12 reconstruct dose for and what we can't
13 reconstruct dose for. We think it's important
14 that -- that we be clear in saying what we can
15 reconstruct dose for because that leads to a
16 partial dose reconstruction for people who have
17 a non-presumptive cancer. As we proceed in
18 those dose reconstructions, however, if we find
19 ourselves in a situation where we can't
20 reconstruct something, we would again be back
21 with the Board under the 83.14 part of the
22 rule.

23 **DR. WADE:** Larry, before you go on, I think
24 it's important that the Board understand
25 exactly the flow of these cases prior to the

1 conduct of a partial dose reconstruction and
2 whether or not there's a prerogative on the
3 part of the Department of Labor to -- to send
4 those cases to us. How will those cases that
5 might warrant a partial dose reconstruction
6 come to NIOSH?

7 **MR. ELLIOTT:** We submit -- upon each class
8 designation, when it becomes a class, we submit
9 a list of claims to the Department of Labor
10 that -- from our limited perspective. We don't
11 do the full development of these, but we
12 identify those claims that have a presumptive
13 cancer and send them back to Department of
14 Labor. They then determine the eligibility of
15 that -- if -- all of those claims, each
16 individual claim in that set, for the class.
17 We continue work on the remaining claims that
18 we view as not having a presumptive cancer.
19 And in some cases those get bounced back and
20 forth between us and DOL if the person
21 identifies that they have an additional cancer
22 or something else changes in the demographics
23 of the case.
24 I'd also like to say that as we move forward
25 with our evaluation reports and right before we

1 present them to the Advisory Board and to the
2 petitioner, the class definition is vetted on
3 each one of these with the Department of Labor.
4 And they spend a little bit of time trying to
5 determine if in fact they can use the class
6 definition to determine eligibility or if they
7 can't. I get a -- I get a letter from the
8 Department of Labor indicating their findings
9 in that regard and those letters will of course
10 follow suit in the posting of the
11 (unintelligible) --

12 **DR. ZIEMER:** Larry, you suggested that those
13 cancers that were non-presumptive you would
14 continue to attempt dose reconstructions.
15 Suppose a claim came to Labor after the SEC was
16 approved that had a non-presumptive cancer --

17 **MR. ELLIOTT:** That would come to us.

18 **DR. ZIEMER:** -- would they automatically send
19 that to you?

20 **MR. ELLIOTT:** Yes, they would refer that claim
21 to us for dose reconstruction.

22 **DR. WADE:** In all cases.

23 **MR. ELLIOTT:** In all cases.

24 **DR. WADE:** There's no judgment to be made.

25 **DR. ZIEMER:** That's what I'm really asking.

1 **MR. ELLIOTT:** If it's a non-presumptive cancer
2 or has less than 250 days in the class, they
3 would send it to us for dose reconstruction.

4 **DR. ZIEMER:** Okay. And the Chair will allow
5 Mr. Miller, who's -- who is squirming in his
6 seat --

7 **DR. WADE:** This is an important point as we
8 move forward.

9 **MR. MILLER:** Can I get some clarification
10 perhaps?

11 **DR. ZIEMER:** (Unintelligible) legal issue you
12 may want to clari--

13 **MR. MILLER:** This is Richard Miller. In the
14 Mallinckrodt Chemical first -- first SEC
15 covering the -- what is it, '43 to --

16 **UNIDENTIFIED:** '47.

17 **MR. MILLER:** -- '47 time period, the Board did
18 not specify in its SEC designation that
19 external radiation dose could be reconstructed.
20 It did in the second Mallinckrodt SEC class,
21 but it did not do so in the first one.
22 Department of Labor was then asked well, why is
23 it you're not sending those non-presumptive
24 skin cancer cases back to NIOSH for dose
25 reconstruction to do the skin cancer cases.

1 And their answer is is because the HHS
2 designation, based on the letter that came up
3 from the Advisory Board, did not say that
4 external penetrating dose could be
5 reconstructed. And as a result, those cases
6 were simply set aside and not referred for dose
7 reconstruction. Is that -- is that a correct
8 characterization of what happened? 'Cause
9 that's certainly what the paper trail looks
10 like, and if that is --

11 **DR. ZIEMER:** Actually that's the -- sort of the
12 question I'm asking --

13 **MR. MILLER:** Good enough, right --

14 **DR. ZIEMER:** -- and I'm wondering if we know.

15 **MR. MILLER:** -- and I think that's why we need
16 some clarification on that.

17 **DR. WADE:** It's important -- we should take a
18 moment to -- while they're caucusing, remember,
19 this is an advisory committee to the Secretary
20 of HHS. The word of this committee is not
21 binding or necessarily influential to the
22 Department of Labor, so we have to be sure that
23 the issue is effectively dealt with in your
24 recommendation to HHS --

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

1 **DR. WADE:** -- and that's why this question --

2 **DR. ZIEMER:** -- the question --

3 **DR. WADE:** -- becomes important.

4 **DR. ZIEMER:** -- arises. Larry?

5 **MR. ELLIOTT:** Well, Richard Miller takes us
6 back to our earliest experience, and I would
7 say it was, you know, a learning experience and
8 we -- we evolved, all of us evolved and the
9 process and the program evolved from that
10 experience. However, I would -- I would like
11 to clarify for you what really happened, I
12 think, in that first period.

13 It was determined that the data was unreliable
14 in the early Mallinckrodt period -- unreliable.
15 So DOL came at us and said well -- it's not the
16 Board's letter, by the way; it's the
17 Secretary's designation that carries the weight
18 here, and the Secretary's designation indicated
19 that the data were unreliable, so we couldn't
20 reconstruct any type of dose in that early time
21 period.

22 Then I think we went into the next class, and
23 the next class we were -- we were -- we were
24 hindered in our ability to reconstruct internal
25 dose, but we were able to reconstruct external

1 dose. And so there was great confusion and
2 frustration among the claimants who had time in
3 one class, not enough time in the other class,
4 and they got caught in this situation -- a
5 catch-22 -- where we couldn't reconstruct any
6 dose in the first class 'cause it was
7 unreliable, and we could reconstruct only
8 external dose in the second class.

9 **DR. ZIEMER:** Thank you.

10 **MR. ELLIOTT:** Does that help? I think that's
11 correct.

12 **DR. ZIEMER:** That's -- that's helpful.

13 Richard, did you have an additional comment --

14 **MR. MILLER:** Because in the February of 2005
15 Advisory Board meeting held in St. Louis, Jim
16 Neton was specifically asked by the petitioner
17 can NIOSH reconstruct external dose, will --
18 can a skin dose be reconstructed, and Jim said
19 yes, we have enough data to reconstruct dose.
20 Now if you have enough data to at least do a
21 minimizing calculation, it would seem to me
22 that you would want to -- just as in this case
23 here -- you would want to at least attempt a
24 minimizing dose, even if it wasn't a complete
25 external dose reconstruction. But in

1 Mallinckrodt, the unfortunate thing that
2 happened was that I think our friends in the
3 Labor Department perceived this as having more
4 than one characteristic. One characteristic
5 that was in play was could you do the external
6 dose; Jim Neton said yes. When presented with
7 the administrative record of this body to the
8 Labor Department showing Jim's quote, they said
9 that there's no -- has no legal weight
10 whatsoever. And the response was but wait a
11 minute, this was included in the administrative
12 record that was transmitted to the Secretary of
13 Health and Human Services. How could this be?
14 And the answer is the HHS designation is the
15 only thing that matters.

16 The second thing that was going on was that our
17 friends in the Labor Department were trying to
18 prove a point to the Board. And the point they
19 were trying to prove to the Board is is that
20 for the non-presumptive cancers, those people
21 were going to be devoid of a remedy, and they
22 wanted to make that point as precisely and as
23 sharply and as pointedly as possible. And so
24 that was coinciding as a policy matter, I
25 think, with how they chose to interpret it. So

1 it seems to me -- maybe I'm wrong here -- that
2 the greater clarity that goes to the Secretary,
3 the better, because your SEC evaluation report
4 had a set of boxes in the very back of the
5 table, and in that 1943 to '47 time period the
6 external dose could be reconstructed. And they
7 said but that's not what mattered. What
8 mattered was the HHS designation.

9 **DR. ZIEMER:** Well --

10 **MR. MILLER:** I just want to be clear, Larry,
11 that --

12 **DR. ZIEMER:** Yeah.

13 **MR. MILLER:** -- there was more at play than
14 what meets the eye.

15 **MR. ELLIOTT:** Yeah, but at the end of the day,
16 Jim Neton's professional and technical
17 expertise was not the weight that carried
18 forward this Board's decision and
19 recommendation, nor the Secretary's
20 designation. You're right, it's in the record
21 and we passed the record along. But be that as
22 it may -- we take this very seriously, too,
23 Richard, and we want to make sure we have the
24 right words, too. And we have -- we strive to
25 that end --

1 **DR. ZIEMER:** That's fine, I understand the
2 issue now. It -- it appears to me that it
3 would serve the Board well where we have this
4 kind of situation to amplify what NIOSH tells
5 us in their recommendation so that even though
6 -- clearly it's the Secretary's recommendation
7 --

8 **DR. WADE:** Right.

9 **DR. ZIEMER:** -- that carries the day, but it
10 may be helpful for our record to be very clear
11 -- not only on an SEC and its definition, but
12 any -- any particular subsets where NIOSH has
13 already indicated that they believe they can
14 reconstruct dose -- that we either accept or
15 not accept that and that be in the record, as
16 well.

17 Dr. Melius?

18 **DR. MELIUS:** And my issue here is that I'm not
19 -- would not be ready to accept or not accept
20 this recommendation 'cause I -- I mean there
21 are some ques-- you know, I think some
22 significant questions 'cause we haven't had the
23 opportunity to evaluate the data nor sort of
24 put it through the same steps that were --
25 would normally be done if we were evaluating it

1 for an SEC, and I think we have to hold the
2 same -- hold that data to the same level of
3 review and confirmation --

4 **DR. ZIEMER:** Right.

5 **DR. MELIUS:** -- for that. And I don't know if
6 I understood, LaVon, correctly. Is it -- NIOSH
7 hasn't really done that either. I mean it's --

8 **MR. RUTHERFORD:** No, but --

9 **DR. MELIUS:** -- too early.

10 **MR. RUTHERFORD:** -- I think what's important to
11 note that -- that whether we say we can -- can
12 do or not do the external beta/gamma does not
13 affect the class, because the class is the
14 whole anyway. So the only one it's going to
15 affect is whether we can or can't do it for the
16 non-presumptive cancers.

17 **DR. ZIEMER:** Or a particular individual.

18 **MR. RUTHERFORD:** I think that's -- exactly.

19 **DR. ZIEMER:** Well, if the Board wishes to --
20 there's a couple of options. One is to delay
21 an actual decision till say tomorrow or the
22 next day. Another is to make a -- what you
23 might call a preliminary decision you want to
24 support the SEC, and then develop the wording
25 before Wednesday or -- that would be one

1 possibility. Another is to simply delay any
2 action. What's the pleasure of the Board?
3 Wanda.

4 **MS. MUNN:** It would be my desire to support the
5 SEC. It seems fairly obvious to me that
6 whether we can or cannot accurately calculate
7 dose reconstructions for a portion of the
8 class, if we cannot do that for all of the
9 class -- which I think that's what I just heard
10 --

11 **MR. RUTHERFORD:** Yes.

12 **MS. MUNN:** -- we can't do that for all the
13 class -- then it follows that we must therefore
14 accept all of the class cannot be adequately
15 reconstructed and therefore a Special Exposure
16 Cohort must be granted. I understand a portion
17 of what the concerns are here, but I -- and I
18 understand the fine points within the agencies
19 that are involved in doing the dose
20 reconstruction. But from a Board point of
21 view, it is our job to define whether the class
22 can or cannot be properly reconstructed. I
23 believe what I've heard here is the entire
24 class cannot properly be reconstructed and
25 therefore I see no reason why the Board should

1 not continue with its assertion that this SEC
2 can be recommended to the Secretary.

3 **DR. ZIEMER:** Is that a comment or a motion?

4 **MS. MUNN:** That's a motion.

5 **MR. PRESLEY:** I second that motion.

6 **DR. ZIEMER:** A motion to approve the SEC and a
7 second, and the Chair will rule that this will
8 be subject to some final wording 'cause we have
9 a fairly elaborate --

10 **MR. PRESLEY:** Right.

11 **DR. ZIEMER:** -- sort of standard set of wording
12 and we'll start to ask Jim to help with that
13 wording, too, 'cause he has the key -- the key
14 stuff on his computer, but --

15 **DR. WADE:** I would like to speak to this issue,
16 if I might. And I'm not speaking for or
17 against because that's not my prerogative, but
18 I'd just like to talk for a couple of minutes
19 and paint a picture for you.

20 We've heard by reference that the Secretary's
21 designation is what will be looked at by the
22 Department of Labor, so the Secretary's
23 designation holds weight, not necessarily the
24 recommendation of the Board. When the Board
25 made its recommendation on LANL several

1 meetings ago, it did so in an interesting
2 structural way. It had a very rigorous
3 definition -- designation of a class, and then
4 it listed supporting information, and then
5 there was record to support that. Given the
6 fact that the Secretary's designation is
7 paramount, and the Secretary will be influenced
8 by the Board's recommendation of designation, I
9 would say it's important for the Board to be as
10 inclusive in its designation as possible and
11 avoid the possibility of having a designation
12 and then have other items that support it. So
13 to the degree possible, I think you should be
14 as inclusive in your -- your recommended
15 designation as possible, hopefully to influence
16 the Secretary, and it's the Secretary's
17 designation that carries weight -- if that
18 makes sense to you.

19 **DR. ZIEMER:** I understand what you're saying.
20 I guess my question is is -- and it's the
21 original question -- how important is it for
22 the Board's record to reinforce what NIOSH has
23 told us on what it can or cannot do?

24 **DR. WADE:** I think from my perspective, given
25 the fact that it could be important, I would

1 carry that forward and I would carry it forward
2 within the recommended designation.

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

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

5 **MR. GIBSON:** I certainly support the motion of
6 the SEC, but -- and anyone who deserves
7 compensation should get it. But on the other
8 hand, I -- you know, if there's someone that
9 doesn't have one of the presumptive cancers and
10 this takes away their opportunity to file for a
11 claim -- I mean I -- I think the ultimate
12 answer lays with the Department of Labor,
13 doesn't it? No matter what the Secretary of
14 Health and Human Services puts forward to the
15 Department of Labor, if someone submits a claim
16 under B that does not fit this class
17 designation or this cohort designation, do they
18 get a chance to be compensated or are they just
19 left out in the cold?

20 **DR. ZIEMER:** Well, I think that's the original
21 question we were asked. I think -- I think
22 Larry indicated that those that had non-
23 presumptive cancers, at least if they're in the
24 loop, NIOSH continues looking at them. And I
25 was concerned about whether new ones would come

1 through, and I think you are assuming that they
2 will --

3 **MR. ELLIOTT:** No, we're seeing -- we're seeing
4 new claims come to us on classes that have
5 already been established, and we're doing dose
6 reconstructions on what we can reconstruct. It
7 turns out to be what we call a partial dose
8 reconstruction, but we have seen some -- some
9 of those --

10 **DR. ZIEMER:** So Labor is sending them forward
11 (unintelligible) --

12 **MR. ELLIOTT:** -- individuals get compensated,
13 but at least they get an answer if they -- if
14 they don't.

15 **MR. GIBSON:** But did you say new cases?

16 **MR. ELLIOTT:** New cases, yes.

17 **MR. GIBSON:** But what -- what of those of the
18 existing class that don't meet all the criteria
19 of the SEC?

20 **MR. ELLIOTT:** Then -- then we proceed with our
21 dose reconstruction effort on those up to the
22 point, you know, that we can. If we can't
23 reconstruct neutron dose, we can't do that, and
24 we reconstruct what we can. New -- let me go
25 over this one more time. I see -- I see a -- I

1 think you're -- may be confused, maybe I'm
2 confusing you, Mike.

3 For these 16 claims that we see fitting this
4 class for Monsanto, that only worked at
5 Monsanto -- I don't know how many of those have
6 presumptive cancers, but we would take those
7 out that have one of the 22 cancers and send it
8 to DOL, send it back to DOL, and they'll work
9 that up as an eligible claim under the class.
10 If for some reason they find it not to be an
11 eligible claim in the class, they'll send it
12 back to us for dose reconstruction.

13 The remainder of those 16 that didn't have a
14 presumptive cancer, one of the 22, once the
15 class is designated and becomes a class, we
16 would proceed with completing dose
17 reconstruction for whatever was found that we
18 could reconstruct. We would not be able to
19 reconstruct that type of dose that, you know,
20 in essence established the class.

21 Does that help? I think I've said it two or
22 three different ways now, but I've said it the
23 same -- with the same intent and meaning behind
24 it.

25 **MR. GIBSON:** And may-- maybe I'm not saying it

1 clear enough or maybe I'm not hearing you
2 right, but a person does not meet the criteria,
3 say -- say the SEC gets passed, person does not
4 meet the criteria of -- for whatever of the
5 reasons. They turn -- they turn around and
6 file a -- the subsection B, subtitle B, send it
7 to the Department of Labor. Is the Department
8 of Labor going to sit on it or are they going
9 to send it to you?

10 **MR. ELLIOTT:** If it's a non-presumptive cancer,
11 they will refer it to us for dose
12 reconstruction. If it's a presumptive cancer,
13 we'll never see it. It'll be processed by DOL
14 as an SEC case, just like we -- just like what
15 happened for the original four Congressional
16 classes in the Special Exposure Cohort. We
17 never saw a bunch of those claims from Pike--
18 from Piketon, Ohio, from K-25, Paduc-- you
19 know, we didn't see any of those. But we did
20 see claims come to us from DOL that were non-
21 presumptive cancers that we had to reconstruct
22 dose for.

23 **DR. ZIEMER:** Okay?

24 **DR. MELIUS:** I have --

25 **DR. ZIEMER:** Jim.

1 **DR. MELIUS:** Yeah, I -- I think the question --
2 at least one of the questions -- is does it
3 make any difference whether we reach a finding
4 that it is possible to reconstruct, you know,
5 external doses or some other -- such that it is
6 --

7 **DR. ZIEMER:** Exactly, that's the point.

8 **DR. MELIUS:** -- in the context. I think that's
9 what we're trying to -- and -- in a la-- two or
10 three meetings ago I think -- statement at
11 least from Larry, and I thought reinforced by
12 the Department of Labor, but my recollection
13 may be wrong there, was that it was important
14 that we do that. So I think that sort of --

15 **DR. ZIEMER:** Well, I know we did it in at least
16 one case --

17 **DR. MELIUS:** No, we --

18 **DR. ZIEMER:** -- and maybe in two, and -- and
19 the -- the record that goes forward is not just
20 our recommendation but the NIOSH evaluation
21 report goes forward with the -- with the
22 charts, too. The Secretary has all of that
23 information and --

24 **DR. WADE:** Correct.

25 **DR. ZIEMER:** -- it is part of the record, as

1 well. Larry.

2 **MR. ELLIOTT:** I was just going to say we've
3 done a number of these of late where we've
4 tried to be very specific with what we felt we
5 could reconstruct dose for and -- and segregate
6 that from what we couldn't reconstruct dose
7 for. The reason that's important is so that
8 those non-presumptive claims -- we can continue
9 our work on them --

10 **DR. ZIEMER:** And I think --

11 **MR. ELLIOTT:** -- (unintelligible) reconstruct
12 (unintelligible) --

13 **DR. ZIEMER:** -- Jim, you -- your concern is
14 kind of the flip side. If they've said they
15 can reconstruct dose, do we actually know
16 that's the case on those.

17 **DR. MELIUS:** Yeah, be-- because very often they
18 -- they have a belief that they can do it -- I
19 mean it may be sound technical grounds for --
20 I'm not dismissing it, but they really haven't
21 gone through the steps of -- of actually doing
22 it in some of these cases, and I think this is
23 an example of those. And certainly just based
24 on the little information that was presented
25 here, I -- I -- if this were presented to me as

1 an SEC and, you know, say all the -- all the
2 other internal doses, everything else could
3 have been reconstructed and they presented --
4 but this is an external dose, I -- based on the
5 information so far, I -- and they said they
6 could reconstr-- I would have serious questions
7 about it. I'd say, you know, give us a lot
8 more evidence on it. So I would be reluctant,
9 as a Board, to endorse that -- that finding
10 'cause I don't think we've been presented with
11 enough information to be able to support that
12 particular finding and -- based on what they've
13 done so far. Now others may feel differently,
14 but I'm just saying that that would be,
15 therefore I -- the question I think is sort of
16 procedurally -- is -- I'm trying to understand
17 is does it make any difference whether we make
18 a statement about what they can do in the
19 context of putting forward an SEC
20 recommendation.

21 **DR. ZIEMER:** Yeah. I look at it a little more
22 generic than that. I think where they say they
23 can reconstruct dose is in the context of there
24 are certain kinds of data, monitoring data,
25 available. It var-- it still could occur that

1 in an individual case -- an individual case,
2 you could not reconstruct dose.

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

4 **DR. ZIEMER:** But it seems to me that -- that
5 generically, and that's what we're talking
6 about here, that there are certain kinds of --
7 of information in the records that would say
8 okay, I can do, for example, external dose if
9 it's gamma, but I can't do the neutron.

10 **DR. MELIUS:** Uh-huh.

11 **DR. ZIEMER:** I mean just the nature of the
12 records.

13 **MR. ELLIOTT:** Right. I take you back to what
14 our rule says, and the rule says it's -- we can
15 reconstruct dose with sufficient accuracy if we
16 can provide them a maximum bound. And the data
17 that we've seen on what LaVon has presented to
18 you, we feel that that enables us to
19 reconstruct dose as we -- as we see the data,
20 as we look at the data. I don't think, in my
21 opinion, it makes -- it doesn't put us in a bad
22 position if you don't comment on what we are
23 saying we can reconstruct at this point. No,
24 we have not brought to you a full-fledged set
25 of dose reconstruction examples. We have not

1 spoken in depth about representativeness of the
2 data. We've only given you a cursory review of
3 the data at hand, and we're asking you to, you
4 know, take it on our -- on face value that, you
5 know, as we go through this and approach it, we
6 can do what we say we can do -- or we're going
7 to identify that we can't.

8 **DR. MELIUS:** Yeah.

9 **MR. ELLIOTT:** But we think it's important where
10 we've stumbled across this and we can't
11 reconstruct dose, we want to get it done and
12 get it in front of you now.

13 **DR. ZIEMER:** And I'm wondering if we couldn't
14 word it in such a way that recognizes that
15 there may be cases for non-presumptive cancers
16 where indeed the dose can be reconstructed,
17 without necessarily getting into the issues of
18 data quality and all of those kinds of things,
19 sort of the flip side of that, which basically
20 says in -- it's -- it's trying to keep the door
21 open, I think is what we're saying, to keep the
22 door open for the non-presumptive cancer cases
23 that may have the opportunity to go forward.

24 **DR. MELIUS:** Yeah.

25 **DR. ZIEMER:** If that helps keep it open. Maybe

1 it doesn't help.

2 **DR. MELIUS:** I think that is the question
3 'cause I think -- if you remember, when we
4 started we assumed that we didn't have to say
5 anything about that, with the original. And
6 then we said no, let's -- on advice, we thought
7 it was important that we did include
8 information with a very specific recommenda--
9 finding that we agreed with NIOSH's findings
10 that they could reconstruct dose.
11 Now we're hearing well, maybe it's not as
12 important as we thought it was, and I'm just
13 trying to figure out what's the best way of
14 communicating with that.

15 **DR. ZIEMER:** Yeah.

16 **DR. MELIUS:** If it is important, then I -- then
17 I think the subsidiary question is well, as we
18 communicate that to the Secretary, should we
19 wait until we have the full package together or
20 -- or do we go at -- or sort of partially now
21 and -- and do -- the other -- I mean there's a
22 whole bunch of --

23 **DR. ZIEMER:** Yeah.

24 **DR. MELIUS:** -- different situations --

25 **DR. ZIEMER:** Well --

1 **DR. MELIUS:** -- and it's --

2 **DR. ZIEMER:** -- I'm sort of thinking of it in
3 these terms: that if we could state in the
4 pet-- in our recommendation that we recognize
5 that NIOSH believes that it can reconstruct
6 doses in -- in certain cases, and that in such
7 cases we encourage the claimants to go forward
8 -- or something to that effect --

9 **DR. MELIUS:** Yeah --

10 **DR. ZIEMER:** -- without -- if that helps keep
11 that door open. Maybe it doesn't make any
12 difference at this point, we don't know.

13 **DR. WADE:** I think it does. I think it's a
14 good thing to do, and my long-winded statement
15 is I think to do that within your
16 recommendation of a designation increases the
17 probability that it will make its way into the
18 Secretary's designation and then be part of the
19 final record.

20 **DR. MELIUS:** Uh-huh.

21 **DR. WADE:** That's all I'm saying. I think it's
22 important that you do it. The last time you
23 did it, you did it -- you made your
24 designation, then you listed supporting
25 reasons. I think it would be better to think

1 of framing it within the designation itself so
2 that it goes forward as part of the
3 designation.

4 **DR. ZIEMER:** And I'm -- I'm saying that I don't
5 think that we have to say that we have
6 confirmed that they can do that.

7 **DR. WADE:** That's right.

8 **DR. ZIEMER:** But that we recognize that they
9 believe they can and therefore it should be
10 considered, or something to that effect.

11 **DR. MELIUS:** Yeah, and that's --

12 **DR. ZIEMER:** Yeah, yeah. Jim.

13 **DR. LOCKEY:** Paul, I agree with you 100
14 percent, that we just put a statement in --
15 boilerplate statement that says for SE-- SEC
16 class that's been approved, those petitioners
17 that have a non-presumptive cancer still have
18 an avenue -- additional avenue to pursue --

19 **DR. ZIEMER:** Okay.

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

21 **DR. ZIEMER:** Wanda, did you have an additional
22 comment?

23 **MS. MUNN:** It was more of a miscellaneous
24 thought.

25 **DR. ZIEMER:** I've got a lot of those, too.

1 **DR. WADE:** More as you get older.

2 **MS. MUNN:** And I'll have to even think about my
3 thought for a little bit. It concerns me that
4 -- the wisdom of our getting into parsing each
5 of these SECs after they've been so clearly
6 identified and parsing what can be done and
7 what can't be done. NIOSH is very clear in
8 their report to us what they can do. I -- and
9 it seems to me very clear in -- in telling us
10 what they cannot do. I -- I just don't see the
11 wisdom of getting in a position where we are
12 asking them to prove that they can't do what
13 they've already said they can't do. And if --
14 if we're not asking them to prove what they
15 can't do, then since the class is very clearly
16 defined here -- as I said earlier -- there
17 seems to be no reason to not go forward with
18 the SEC. They said what they can do. They
19 said what they cannot do. What they cannot do
20 is encompass all individuals who fit the class
21 as defined.

22 **DR. ZIEMER:** Yeah, and I think we all agree on
23 that part of it. Perhaps what we can do --
24 let's move ahead on this. I'm going to call
25 for a vote on this motion, recognizing that

1 it's a kind of general generic motion to
2 approve or disapprove the SEC, with the caveat
3 that the exact wording of the motion will come
4 back to us before the end of this meeting and
5 you will have a chance to see what those words
6 look like if there are any qualifiers in it
7 that -- that can lead to levels of either
8 comfort or discomfort -- if that's agreeable.
9 So what we are -- basically would be voting on
10 is not the issue of any additional caveats, but
11 the issue of support for the SEC. Comment
12 (unintelligible).

13 **MR. GRIFFON:** Is it necessary to call for a
14 vote right now? I'm just wondering if we can -
15 -

16 **DR. ZIEMER:** No, we can table -- you can call
17 for a tabling of the vote, if you wish. If we
18 approve this vote, it would simply say we're
19 going to go ahead and work on the exact wording
20 of what it looks like, and -- and we can -- we
21 can do that anyway and reserve the vote till we
22 have the wording. That's --

23 **MR. GRIFFON:** I think we should vote --

24 **DR. ZIEMER:** -- if you want to -- if you want a
25 motion to table, we can do that.

1 **MR. GRIFFON:** Well, I'm not doing that yet, but
2 I think we should -- I would like to vote at
3 this meeting for sure, but I -- I think I want
4 to ponder -- the other question I have on this
5 is not only -- I think we -- the -- the way
6 that it was just stated about how to handle the
7 areas where you can do dose reconstruction
8 satis-- I think we can work with the language
9 around that. I still have some questions about
10 the internal dose items that NIOSH says they
11 can't do. And quite frankly, I think I want to
12 at least mull that over a little more, only
13 because I think there's a equal treatment issue
14 here. I think we have to be careful that there
15 -- there's some other sites where there've been
16 some pretty thin amounts of data and we've --
17 NIOSH has determined that they can do dose
18 reconstructions. So I -- when LaVon says --
19 and it might be in the report that I didn't go
20 through as thoroughly as I should have before
21 this meeting, but when NIOSH says there's very
22 little air sampling information, very little --
23 I mean I have no reason not to believe them,
24 but I -- for myself, I'd like to at least take
25 a closer look at that. And if they have any

1 supporting documents that we might look at in
2 that regard in the next two days or next one
3 day, I'd rather wait and see that and then make
4 a call on that, simply because I think that we
5 -- we also need to consider this in the larger
6 picture, that we're not -- that we're
7 consistent in the way we're ruling on these
8 things. If it's -- if it's very little data,
9 what do we mean by very little data; what do we
10 mean by enough is enough when we review, you
11 know, sites like Rocky Flats for lengthy
12 periods of time. So I -- you know...

13 **DR. ZIEMER:** Are you making a motion to table?

14 **MR. GRIFFON:** Well, I -- I'm listening -- if
15 Wanda has a response, I'll listen to that
16 before I make any motion.

17 **DR. ZIEMER:** Do you have any comment?

18 **MS. MUNN:** (Off microphone) No, Jim's
19 (unintelligible) --

20 **DR. MELIUS:** I was going to second his motion.
21 I was waiting --

22 **MR. GRIFFON:** Then I don't make a motion to --

23 **DR. MELIUS:** I actually had a separate comment,
24 but I'll...

25 **DR. ZIEMER:** A motion to table?

1 **DR. MELIUS:** On something else.

2 **DR. ZIEMER:** Oh.

3 **DR. WADE:** You mean LaVon?

4 **DR. MELIUS:** But relevant to this. I'm just
5 trying to understand what it means in the
6 definition you put a -- by monitored, or should
7 have been monitored. What -- what are the --
8 what is the factual basis for that relevant to
9 this particular --

10 **MR. RUTHERFORD:** Well, that was based -- that's
11 basically individuals that had -- would --
12 under today's criteria, should have been
13 monitored. Okay? If you were to look at it
14 that way.

15 **DR. MELIUS:** Yeah.

16 **DR. ZIEMER:** Well, that wording comes out of
17 the regulation, I believe.

18 **MR. RUTHERFORD:** Right.

19 **DR. MELIUS:** Well, but --

20 **MR. GRIFFON:** But do we have enough -- well, go
21 ahead.

22 **DR. MELIUS:** Yeah, I'm just trying to
23 understand the -- the -- how that would be
24 applied in -- in this particular circumstance
25 based on what -- the evaluation that NIOSH has

1 done of this facility.

2 **MR. RUTHERFORD:** Well, I don't think NIOSH -- I
3 don't think our evaluation has -- has excluded
4 anyone, with the exception of Unit II where
5 they -- that was the -- where they did the
6 rocket propellant and didn't work with any
7 radioactive material. So anyone that worked in
8 those other buildings would be part of that
9 class, because we did not have the information
10 that we could separate anyone out of that class
11 in those facilities. Do you -- do you --

12 **DR. MELIUS:** No, I'm understand-- and I guess my
13 question -- reason I wanted to bring this up is
14 -- is -- then I'd be interested in Larry's
15 comments or comments from anybody else that's -
16 - from DOL, is should we be more specific in
17 our definition of the class, 'cause I think,
18 you know, based on what you presented in your
19 report, one certainly would -- I think I'd
20 agree that you'd exclude people from that one
21 building 'cause it --

22 **MR. RUTHERFORD:** Well, we didn't include that
23 building in -- in the class definition.

24 **DR. MELIUS:** Okay.

25 **MR. RUTHERFORD:** Unit -- it goes Unit I, III

1 and IV.

2 **DR. MELIUS:** Okay.

3 **MR. RUTHERFORD:** So Unit II is excluded from
4 that building -- from that class.

5 **MR. ELLIOTT:** Monitored or unmonitored comes
6 out of language that was used in the
7 Congressional mandated SEC classes. It shows -
8 -

9 **MR. GRIFFON:** Monitored or should have been
10 monitored.

11 **MR. ELLIOTT:** Monitored or should have been
12 monitored, I'm sorry. And as LaVon indicated,
13 we interpret that to mean unmonitored not only
14 in the early years, but should have been
15 monitored by today's standards, or should have
16 been monitored if they -- they went into the
17 building where the -- the exposure occurred,
18 but they were never monitored. So it's -- it's
19 more inclusive to use that language. If we
20 don't use it, we find ourselves dealing with
21 DOL on excluding people.

22 **DR. MELIUS:** No, I -- well, in this case where
23 all the external monitoring is essentially --
24 you know, can't be identified individuals,
25 maybe a lot of people that were monitored that

1 you have no records of being monitored.

2 **MR. ELLIOTT:** That's possible. That's very
3 possible --

4 **DR. MELIUS:** Yeah, yeah.

5 **MR. ELLIOTT:** -- but by listing the buildings
6 where the radioactive material was handled and
7 processed, then all a person has to do -- all a
8 claimant has to do as -- my understanding in
9 watching DOL process these, is provide some
10 sort of affidavit or some verification that
11 they were present in those buildings.

12 I think you asked also about does it have
13 benefit to place in your language -- your
14 definition language -- what type of exposure.
15 And I think we went down this path with thorium
16 on one class definition and we ended up going
17 back and forth with DOL on that, too. I don't
18 think it benefits a lot to specify the type of
19 -- of radioactive material that can't be
20 reconstructed. I think that causes more
21 problems than it causes benefit.

22 **MR. GRIFFON:** Yeah, I agree with that. I'm not
23 sure -- well, I'm -- I'm just wondering how DOL
24 interprets monitored or should have been
25 monitored. I don't think mere presence in

1 those buildings would constitute meeting that
2 criteria, would it? 'Cause you're talking
3 about current standards, so mere presence -- if
4 they were an administrative worker, for
5 instance, within that building but not -- are
6 they going to make a subjective judgment based
7 on job title or other factors. I think they
8 do, don't they? Or...

9 **MR. ELLIOTT:** They do, and -- and we've been
10 conversing with DOL about this in a number of
11 class situations. Guards come up -- we believe
12 guards are exposed in the -- once they walk in
13 the building, they're exposed. Okay? An
14 administrative person who sits in an office in
15 one of these buildings has a potential for
16 being exposed. You know? If you're inside the
17 four walls of a building, you're exposed.
18 That's our take on it. That's what we argue
19 with -- with these folks, and they haven't been
20 receptive to that, to this point, so...

21 **MR. GRIFFON:** So -- so do we ha-- I mean is it
22 worth us in our write-up to be more specific,
23 you know, if we say, you know, we understand
24 this to be presence in the building?

25 **MR. ELLIOTT:** I think this goes back to what

1 Dr. Wade was trying to help you with before in
2 his commentary. Be as specific as you can, and
3 that -- hopefully that will find its way into
4 the Secretary's designation.

5 **MR. GRIFFON:** Okay. Thank you.

6 **DR. ZIEMER:** Thanks. Okay. Then we're ready
7 to move on to the next item.

8 **MR. PRESLEY:** Who's -- who's going to come up
9 with the wording for the motion?

10 **DR. ZIEMER:** Well, Jim's going to take the lead
11 on it --

12 **DR. MELIUS:** I'm starting it --

13 **DR. ZIEMER:** -- because he has the basic
14 outline, but others can suggest.

15 **DR. MELIUS:** (Unintelligible) to my neighbor.

16 **DR. ZIEMER:** Let's see how we are.

17 **MR. PRESLEY:** (Unintelligible) more than happy
18 to.

19 **DR. WADE:** You want us to take a break now?

20 **DR. ZIEMER:** Well, I think we -- yeah, we've
21 gone a little longer than we'd planned on LaVon
22 -- LaVon, if it's all right, we'll take our
23 ten-minute break here -- comfort break -- and
24 then resume.

25 **MR. GRIFFON:** Thank you.

1 claimant, and we sub-- informed that claimant
2 that dose reconstruction was not feasible and
3 so when we informed the claimant that it's not
4 feasible, we sent the -- that claimant a
5 petition form A and we started the 83.14
6 process.

7 Unfortunately my notes got messed up.

8 (Pause)

9 When we -- when we determine that we cannot do
10 dose reconstruction, we go through the 83.14
11 process, what we look at during the evaluation
12 is we're looking for basically defining the
13 boundaries of the class. We've already
14 determined we can't do dose reconstruction for
15 an individual. Now we need to find the
16 boundaries of the class that we've -- we've
17 started to identify.

18 The 83.14 process is the same process in that
19 we look at two -- the two-pronged test. We
20 look at feasibility whether we can do dose
21 reconstruction, and then we look at health
22 endangerment, was -- is there a potential
23 likelihood that such radiation doses may have
24 endangered the health of those...

25 General Atomics is a private contractor for the

1 AEC from 1960 through 1969. They operated
2 under the license under the Atomic Energy
3 Commission and later under the State of
4 California. They performed a number of
5 radiological operations, both for the AEC and
6 commercial operations as well.

7 As I mentioned, they performed a number of
8 operations for the Atomic Energy Commission.
9 They processed unirradiated scrap of depleted
10 uranium, normal uranium and highly enriched
11 uranium. They did hot cell work. In that hot
12 cell work they looked at a -- they did
13 examinations of Department fuels, structural
14 materials, and they also did a number of -- or
15 of other tests.

16 Other commercial activities that were performed
17 during the class period are developing and
18 fabricating reactor fuels, reclaiming highly
19 enriched uranium, fusion research, operating
20 experimental criticality facilities, and
21 operating other experimental facilities.

22 The radiological sources, highly enriched
23 uranium and thorium from fuel fabrication,
24 plutonium oxide from research and development
25 work, activation products and fission products

1 from the irradiated reactor fuels.
2 Our information available for dose
3 reconstruction, had limited bioassay from the
4 1960 to '63 period. In 1963 they started a
5 routine bioassay program and then -- however,
6 that bioassay program focused more on uranium.
7 There was no thorium bioassay monitoring during
8 the period. There's some whole body monitoring
9 data that's available in 1966 and it's spotty
10 from that point on. However, the whole body
11 counting was -- was focused on workers that
12 worked in the highly enriched uranium and ur--
13 divisions. They were not -- they did not do
14 any whole body monitoring on thorium workers.
15 External monitoring data, we have external
16 monitoring data, both beta/gamma and neutron
17 data, through the entire operational period.
18 We also have direct and indirect dosimeter data
19 -- basically the little, you know, direct
20 reading dosimeters for -- for operations. We
21 have extremity do-- data, finger rings. We
22 also have data that we received that -- when we
23 looked through the claimant files we had
24 indications that they were required -- for
25 annual X-rays.

1 Petition overview, NIOSH determined that we
2 were unable to do a -- a complete dose
3 reconstruction for an existing claim, as I
4 mentioned earlier, and on June 30th, 2006 a
5 claimant was notified that dose reconstruction
6 could not be completed and was supplied a Form
7 A. The Form A is a -- is -- is basically a
8 form that allows the petitioner to petition for
9 a -- for being added to the Special Exposure
10 Cohort. Petition was submitted to NIOSH on
11 July 17th, 2006.

12 NIOSH concluded that NIOSH lacks monitoring,
13 process or source information sufficient to
14 estimate the internal radiation doses from
15 thorium exposures from General Atomics
16 employees for the period of January 1, 1960
17 through December 31st, 1969, which is the
18 entire covered period.

19 NIOSH has sufficient information to estimate
20 the internal doses from uranium, and
21 occupational external exposures including
22 medical exposures for that period.

23 NIOSH has determined that it is not feasible,
24 as I said, to estimate with sufficient accuracy
25 internal radiation doses, and that the health

1 of the covered employees may have been
2 endangered.

3 The evidence indicates that workers in the
4 class may have been ex-- may have accumulated
5 intakes of thorium during the covered period.
6 Our proposed class -- and I'm not going to read
7 that 'cause there are a number of buildings,
8 but these buildings are associated with
9 radiological activities.

10 Our recommendation is for the period of January
11 1, 1960 through December 31st, 1969 we cannot
12 do dose reconstructions for that period, or
13 it's not feasible with sufficient accuracy, and
14 that -- we indicate that health was endangered.
15 And that's it.

16 **DR. ZIEMER:** Okay. Thank you. The -- this
17 petition is focused largely on thorium.

18 **MR. RUTHERFORD:** That's correct.

19 **DR. ZIEMER:** And as I look through the General
20 Atomics list of facilities -- for example, the
21 linear accelerator -- is there any reason to
22 believe there would be thorium in that
23 facility?

24 **MR. RUTHERFORD:** Actually they did do
25 accelerator work where they actually --

1 **DR. ZIEMER:** They activated thorium?

2 **MR. RUTHERFORD:** Yes. Yes.

3 **DR. ZIEMER:** Okay. What about the analytical
4 health physics lab? If --

5 **MR. RUTHERFORD:** Well --

6 **DR. ZIEMER:** -- let's see, it's listed as --
7 I'm looking here --

8 **MR. RUTHERFORD:** I think what --

9 **DR. ZIEMER:** -- yeah, Building 10 -- Building
10 10, if that's truly a radioanalytical lab, by
11 definition you almost have to have really low
12 levels in there in order for it to do its job,
13 so --

14 **MR. RUTHERFORD:** I think our determination was
15 that we really didn't have enough information
16 to -- to separate it out --

17 **DR. ZIEMER:** Oh.

18 **MR. RUTHERFORD:** -- so we -- we left it in
19 there.

20 **DR. ZIEMER:** So you don't really know what they
21 --

22 **MR. RUTHERFORD:** No.

23 **DR. ZIEMER:** -- were doing in there
24 (unintelligible).

25 **MR. RUTHERFORD:** Well, we know that they did do

1 -- they -- that thorium was in the -- and -- I
2 mean they did some analysis work in there, but
3 -- but as you said, I mean, typically you're
4 not -- you don't see large quantities.

5 However, we didn't have enough information to
6 really make that determination.

7 **DR. ZIEMER:** Okay. Other questions on this
8 particular one? Yeah, Jim.

9 **DR. MELIUS:** Well, I guess my question's along
10 the same lines as -- as Paul's. I mean I had
11 trouble understanding the basis for why
12 different buildings were included or excluded,
13 so my -- my question would be what -- what was
14 the basis of your investigation and your
15 information basis for this? Why --

16 **MR. RUTHERFORD:** Well --

17 **DR. MELIUS:** -- effort to look at this
18 facility.

19 **MR. RUTHERFORD:** If you look at -- we didn't
20 really exclude buil-- what buildings we
21 excluded were buildings that we knew were
22 administrative buildings. We had good
23 documentation to support that they were
24 administrative buildings. We had enough
25 information to -- to identify that -- that

1 thorium operations were conducted in -- in a
2 large number of facilities and thorium --
3 thorium was used in num-- in a lot -- a lot of
4 different processes and -- and that we -- and
5 from that that we couldn't make enough -- there
6 was not enough information to actually pull any
7 of these in -- buildings that we had identified
8 in the class out, so those are all facilities
9 that radiological work was being conducted at
10 the time.

11 **DR. MELIUS:** Yeah, but -- but what I guess my
12 question is, at least for the record, what was
13 the -- but how vigorously did you look for
14 information, I guess is -- is the question.

15 **MR. RUTHERFORD:** Well, we -- we looked through
16 a number of sources, like we looked at our site
17 research database there. We -- we looked in --
18 you know, we contacted General Atomics. We
19 looked at our claimant files, you know, so a
20 number of sources were looked at for
21 information and there was no internal
22 monitoring data. We actually had documentation
23 that supported that there was no internal --
24 indicated that they did not perform monitoring
25 for thorium.

1 **DR. ZIEMER:** LaVon, were labs like General
2 Atomic, even though they are contractors to
3 what was then the AEC, were they required to be
4 licensed by the AEC --

5 **MR. RUTHERFORD:** They were licensed --

6 **DR. ZIEMER:** -- or by the State of California?

7 **MR. RUTHERFORD:** They were initially licensed
8 by the AEC and then later by the State of
9 California.

10 **DR. ZIEMER:** And do -- do we have any records
11 from either agency on -- on inspection reports
12 or were tho-- are those part of the record?

13 **MR. RUTHERFORD:** We have not -- we had not
14 recovered any. Now that doesn't mean that --
15 that those may not -- or may potentially exist
16 at, you know, some new -- at the NRC or some
17 other facility that we've not been able to --
18 you know, not been able to recover at this
19 time.

20 **DR. ZIEMER:** If -- I think they also had a
21 reactor there.

22 **MR. RUTHERFORD:** Yes, they had a number of
23 reactors.

24 **DR. ZIEMER:** Which would probably be licensed
25 even separately --

1 **MR. RUTHERFORD:** Uh-huh.

2 **DR. ZIEMER:** -- from the rest of the facility.
3 I'm just wondering -- a facility like that
4 would have been subject to at least annual
5 inspection by AEC and later by the State of
6 California, or both. It just occurs to me that
7 inspection reports of that type might lead to
8 some valuable information about the
9 radiological conditions in the facility. I'm
10 just wondering if -- if those haven't been
11 looked at, whether they should have or could be
12 looked at. They certainly would be somewhere
13 in the records. But as a matter of course --
14 and this sort of just occurred to me -- as a
15 matter of course, we -- we don't look at those
16 kind of records --

17 **MR. RUTHERFORD:** Well, we do, you know, we
18 actually --

19 **DR. ZIEMER:** We do as a matter of --

20 **MR. RUTHERFORD:** Yeah, if -- a number -- I mean
21 a lot of the data -- you know, if -- if we have
22 -- if the data is available to us, we will
23 definitely look at that data. I mean, you
24 know, we try to look at all documents that --
25 that potentially will have information to

1 support dose reconstruction. However, a lot of
2 the information we haven't been able to
3 uncover, you know, and -- and some information,
4 you know, we -- we are -- started to do more
5 data captures with the Nuclear Regulatory
6 Commission and -- and other organizations to
7 try to get more information. However, at this
8 time we have been unable to come up with enough
9 information to do dose reconstruction at
10 General Atomics.

11 **DR. MELIUS:** Yeah, but -- but --

12 **DR. ZIEMER:** Okay, Jim or Mark, go ahead.

13 **DR. MELIUS:** Go ahead, Mark.

14 **MR. GRIFFON:** I'm just -- I mean I'm just a
15 little confused on the -- and -- and it might
16 be a question of -- of the form, but I -- in
17 the -- in the document here, it's the Tech
18 Basis Document for the site, it talks about 400
19 boxes containing records of radiological
20 activities at General Atomics exist; 50 boxes
21 were examined and copies of records considered
22 germane to EEOICPA were made. So you did a
23 sampling effort of these 400 or -- or --

24 **MR. RUTHERFORD:** No, we looked through those
25 documents and we determined that there was no

1 thorium monitoring --

2 **MR. GRIFFON:** Okay.

3 **MR. RUTHERFORD:** -- that's why --

4 **MR. GRIFFON:** So you did look through all 400
5 and --

6 **MR. RUTHERFORD:** Yeah, but what I indicated was
7 that there's -- you know -- I mean we go
8 through all the documents that we have
9 available. Now there may be -- I think in any
10 case -- in any case, it's not a -- you know, an
11 exhaustive process, meaning that there are
12 other places where data may exist that we've
13 missed and we may at some point uncover that
14 data. So at this time we haven't uncovered
15 data, and we felt it appropriate to move
16 forward with this 83.14.

17 **MR. PRESLEY:** LaVon --

18 **DR. ZIEMER:** Robert, and then Jim.

19 **MR. PRESLEY:** -- did I understand you to say
20 that there's -- you also found a listing that -
21 - where there was work at the Test Site from
22 General Atomics?

23 **MR. RUTHERFORD:** I don't know that I said that.

24 **MR. PRESLEY:** No, that's what I was wondering.
25 I -- I misunderstood you, then.

1 **MR. RUTHERFORD:** No.

2 **MR. PRESLEY:** Okay.

3 **DR. ZIEMER:** Jim?

4 **DR. LOCKEY:** Paul, you had asked the question -
5 - did you look at AEC in California, you did
6 look for any records there?

7 **MR. RUTHERFORD:** Yeah, I -- I can't -- I don't
8 -- I don't remember whether we actually called
9 AEC, or called California, the State, to get
10 records or not. I'd have to go back and
11 actually check with our data capture people and
12 see if they actually did contact them, so I
13 can't -- I can't really answer that one.

14 **DR. ZIEMER:** Gen Roessler?

15 **DR. ROESSLER:** I think we're probably all going
16 in the same direction, but it seems like it's a
17 huge leap to go from one claimant to then
18 including so many different facilities, and by
19 different, it's been -- you know, across a wide
20 range of activities. What I'm thinking of is
21 as you recommend classes for an SEC, you
22 actually recommend them, that we keep in mind
23 the fairness and consistency of the whole
24 program; that the decisions that are made here
25 will then need to apply in the future. And

1 we've talked about this I think a lot and I
2 think that's one of the questions we're asking.

3 **MR. RUTHERFORD:** I understand.

4 **DR. ZIEMER:** Just another comment, because the
5 LINAC had bothered me a little bit because I
6 know that even in typical activation
7 experiments the targets usually are awfully
8 small, mass-wise. And I can't imagine large
9 amounts of thorium being in the LINAC facility,
10 but -- but we don't have any way of knowing one
11 way or another, I guess.

12 **MR. RUTHERFORD:** And -- and the other -- well --
13 -- well, I mean -- you don't have en-- you don't
14 have the information available to know, and I
15 don't know that it's going to change -- I mean
16 if we separate it out, we've got to have a good
17 basis for separating it out, so --

18 **DR. ZIEMER:** Well, yeah, but that's sort of
19 what I'm getting at, and I think Gen is getting
20 at. I mean does one size fit all here or does
21 it make a difference whether you were in the
22 analytical lab or in the -- in the reactor
23 facility or the hot cell facility or the LINAC?
24 These are all -- I mean in typical
25 installations these are all very different

1 kinds of facilities.

2 Other comments -- or questions? Larry, you
3 have a comment?

4 **MR. ELLIOTT:** Take due note of your comment
5 there, Dr. Ziemer, but at each one of these
6 individual buildings on this covered facility,
7 we tie it to thorium, I believe. Right, LaVon?
8 So you know --

9 **DR. ZIEMER:** Yeah, I -- I understood that, but
10 -- that's why I was saying, for example, it
11 would seem to me -- and this is more intuitive.
12 I have no way of knowing. But for example, I -
13 - I have a hard time imagining large masses of
14 thorium in a LINAC where you typically are
15 taking a little target and activating it for
16 some kind of analytical procedure or something.
17 Or -- or in the analytical lab where you're
18 doing -- where you're usually trying to count
19 low levels of things, it -- it's hard to
20 imagine very big source terms in some of those
21 buildings, as opposed to a hot cell where you
22 expect to be handling large amounts, or even in
23 the reactor itself where they're testing fuel
24 elements. In -- in the fusion building if
25 they're -- I don't know why you would have

1 thorium in a fusion building. I -- you would
2 have tritium there, but why would you have
3 thorium? So it's -- it's those kinds of
4 questions that pop into my mind that say does
5 one size fit all here, and may-- maybe -- maybe
6 the data are inadequate to -- to answer the
7 question and that's why you're forced into sort
8 of saying we sort of have to assume thorium
9 everywhere. But it seems, intuitively, like a
10 stretch. That's all I --

11 **MR. RUTHERFORD:** Yeah, and -- and you made the
12 point. I mean the process requires us pretty
13 much if we're going to say it's -- it's not --
14 we're not included it, we're going to have to
15 defend why we're not. It's a...

16 **MR. ELLIOTT:** Yeah, I would -- no argument here
17 with you, Dr. Ziemer. I would just point out
18 that the -- you know, when we talk about what
19 happened, like in the science laboratories, we
20 go so far here as to say that the operations
21 included the grinding of thorium, which you
22 wouldn't typically, you know, think of
23 intuitively in a laboratory situation.
24 So you know, I -- I also would make -- want to
25 make sure that the record speaks to this, and

1 this is timeliness. You know --

2 **DR. ZIEMER:** Yeah, (unintelligible) understand,
3 yeah.

4 **MR. ELLIOTT:** -- this is one of these sites
5 where we've been struggling with trying to
6 reconstruct dose --

7 **DR. ZIEMER:** Right.

8 **MR. ELLIOTT:** -- and we've come forward with an
9 83.14 situation. I don't know if LaVon's been
10 as clear as I would like for him to be in
11 explaining that we have looked at all sources
12 of records and data that we could possibly find
13 in a timely fashion, and we've just reached our
14 -- the end of that rope and we -- now we -- we
15 have been to NRC. We have not perhaps been to
16 the State, but I know this one was discussed as
17 far as NRC data pertinent to this site, so...

18 **DR. ZIEMER:** Now this -- this site, though, is
19 more of a -- well, it's a laboratory. If --
20 for example, I would expect grinding in a
21 laboratory to be -- it wouldn't be like
22 production-level grinding like you -- you know,
23 it's not a Bethlehem Steel or something like
24 that where you're grinding huge masses. It
25 might be somebody at a mortar and pestle or

1 something, you know. So issues of scale come
2 into play also in some of these kinds of
3 facilities. But there again, it would seem to
4 me, if it hadn't already occurred, if one had
5 the annual inspections of a regulatory body,
6 you'd get a pretty good idea of the
7 radiological condition in -- in some of these,
8 'cause this is a pretty broad variety of --
9 this is not a facility doing one thing.
10 There's a lot of different things going on
11 here.

12 Jim, you have an additional question?

13 **DR. MELIUS:** Yeah. Yeah, I -- I guess what my
14 -- my question is -- I'm presuming that ORAU
15 did the work on this?

16 **MR. RUTHERFORD:** Yes.

17 **DR. MELIUS:** Okay. Would it be possible to
18 check with the technical staff at ORAU who
19 headed this to -- to get a little better idea
20 of how thorough their, you know, attempt was to
21 get additional information, and particularly if
22 they had, you know, looked for or sought out
23 either the State or the NRC records and what
24 was the, you know, result of that -- those
25 inquiries?

1 **MR. RUTHERFORD:** Yes, we can -- we can --

2 **DR. MELIUS:** I mean I think that's something
3 that might be done and then we could, you know,
4 postpone our consideration of this until
5 tomorrow or the next day.

6 **DR. ZIEMER:** That might be a possibility. Let
7 me also ask, do we -- do we have other claims
8 from this site where we've not been successful
9 in reconstructing dose, or just the one, or are
10 there some claims that have been successfully
11 reconstructed for this site?

12 **MR. ELLIOTT:** To date, I show 111 claims have
13 been referred to us for dose reconstruction
14 from DOL. We have completed 18, 11 of which
15 were greater than -- were compensable, seven
16 were non-compensable. We have 68 pended. I
17 can't speak about those 18. They may have had
18 time at someplace else, you know, other data, I
19 --

20 **DR. ZIEMER:** But the compensable ones then were
21 compensable without even considering the
22 thorium --

23 **MR. ELLIOTT:** Yes, must --

24 **DR. ZIEMER:** -- I presume.

25 **MR. ELLIOTT:** -- have been, yeah.

1 **DR. ZIEMER:** Yeah.

2 **MR. ELLIOTT:** And those seven may come back to
3 us once this class is dealt with.

4 **DR. ZIEMER:** Okay, Board members -- another
5 comment, Jim?

6 **DR. MELIUS:** No, I'm sorry.

7 **DR. ZIEMER:** What is your pleasure on -- on
8 this? We can ask for additional information,
9 if you wish. We can make a motion, or we can --
10 -- we can delay action. What would you --

11 **DR. LOCKEY:** I move we table until we get the
12 additional information.

13 **DR. ZIEMER:** Motion to table. That's got a
14 caveat with it that we get some additional
15 information. Be -- be specific, what --

16 **DR. LOCKEY:** NRC and California --

17 **DR. ZIEMER:** -- information would you like to
18 see?

19 **DR. LOCKEY:** NRC and California. I'd like to
20 know whether they were looked at.

21 **DR. ZIEMER:** Okay.

22 **MR. PRESLEY:** I'll second.

23 **DR. ZIEMER:** And seconded. This is a motion to
24 table then. It's not debatable. I don't know
25 if motions to table can have -- well, the

1 here?

2 **DR. WADE:** Again, I think the importance of
3 this agenda item we've just sort of
4 experienced, that you've come -- petitions have
5 come to you for the first time and you've said
6 well, we want this and we want that. The
7 purpose here is to give you a preview of coming
8 attractions so maybe you can start to request
9 the types of information you'd like to see when
10 these positions -- petitions are brought to
11 you.

12 **MR. RUTHERFORD:** All right. As Dr. Ziemer had
13 mentioned, I'm going to give you a status of
14 upcoming SEC petitions. The intention or
15 purpose is to provide the Advisory Board an
16 update to what SEC petition evaluations we have
17 coming down that are going to be completed here
18 in the near future, and our hope is that this
19 information will support the -- help prepare
20 the Advisory Board for future working groups
21 and future Board meetings.

22 To date we've received -- actually as of
23 December 31st -- or December 1st we'd received
24 79 SEC petitions. Actually we picked up two
25 additional last week, after this presentation

1 was prepared, so we actually have now 81 SEC
2 petitions. We have 12 SEC petitions that are
3 in the qualification process. They have not
4 been qualified to date. We have 30 SEC
5 petitions that have qualified and that are in
6 various phases, either -- either the evaluation
7 report's being prepared; the evaluation
8 report's complete, presented to the Board and
9 waiting for Board determination; or they've
10 completed all the way through HHS. And then
11 we've had 31 SEC petitions that did not
12 qualify.

13 You'll note that there were six petitions that
14 were actually received prior to the rule
15 becoming final. Those petitioners were given
16 the opportunity to -- we sent them a letter
17 after the rule became final and -- outlining
18 the criteria in the rule and offering them the
19 chance to petition again.

20 Currently we have a number of petitions that
21 are in the evaluation process. The Los Alamos
22 National Lab, we anticipate completing that
23 evaluation report in January of 2007. That is
24 an 83.13 petition.

25 Bethlehem Steel, we are in the evaluation

1 process and plan completion in February, 2007.
2 Hanford is May of 2007; Sandia National Lab
3 Livermore is April of 2007; and then Dow
4 Chemical is an 83.14 and at this time we -- we
5 had hoped to have Dow Chemical complete for
6 this Board meeting in December. However, we
7 were looking at some more resources -- data --
8 potential data resources and we were unable to
9 get that complete. We anticipate completing
10 that report in January and presenting at the
11 February Board meeting.

12 In addition we've completed the evaluation of
13 the Feed Materials Production Center. The
14 evaluation report was completed, submitted to
15 the Board and to the -- and to the petitioners.
16 We plan to present that evaluation at the
17 February, 2007 Advisory Board meeting.

18 We have some sites that we are currently
19 working on 83.14s. W. R. Grace, right now we
20 have approved an initial proposed class and
21 professional judgment from May 1 of '58 to
22 December 31, 1970. We're looking at existing
23 claims to determine a representative case; and
24 once we've found that representative case we
25 will move forward through the 83.14 process

1 with that individual. We anticipate completing
2 the process, the evaluation report being
3 presented to the Board in January of 2007.
4 We have 11 sites that we've currently
5 identified that -- that there's a potential
6 that these -- that we will move down the 83.14
7 process. Right now we have not -- we do not
8 have enough information at this time to -- to
9 complete dose reconstruction for these sites
10 and so right now we anticipate we will move
11 down the 83.14 process with these sites.
12 These 11 sites -- our contractor, ORAU, is
13 currently drafting initial class proposals and
14 professional judgments for NIOSH review and
15 approval. And once we've -- once we've
16 reviewed them, approved them, then we will
17 start moving down the 83.14 process with those.
18 We also anticipate that there will be
19 additional sites that will be identified,
20 either through our -- our contr-- either
21 through review with our contractor with ORAU or
22 our Battelle contractor.
23 And that's it. Questions?
24 **DR. ZIEMER:** Thank you. Let's open this for
25 questions, questions on schedule, on

1 facilities, any related issues.

2 **DR. MELIUS:** Yeah --

3 **DR. ZIEMER:** Yeah, Jim.

4 **DR. MELIUS:** Sorry, Paul. Believe in the past
5 you've -- or Larry or Jim Neton has -- have
6 referred to this ORAU contract effort to
7 identify sites where dose reconstructions were
8 likely not to be completed, and believe the
9 last time I checked on that it was -- that
10 report was under review. Is that report now
11 available? I heard you just refer to it. And
12 could you also explain to me the -- what the
13 Battelle re-- effort is and what the Ba--
14 Battelle report is or what Battelle is
15 identifying?

16 **MR. RUTHERFORD:** I don't -- I don't remember
17 saying that there's a report that had been
18 developed by ORAU or Battelle. I think that
19 sites are being identified as we move through
20 the process, that -- that we've determined that
21 dose reconstructions aren't feasible, so --

22 **DR. MELIUS:** The "you" I was referring to was
23 NIOSH, and --

24 **MR. RUTHERFORD:** Okay.

25 **DR. ZIEMER:** Larry, you have an additional

1 comment on that?

2 **MR. ELLIOTT:** Well, my comment's the same as
3 Bomber's. We have no report from ORAU. There
4 was purportedly a report being generated. The
5 report never surfaced in a format that was
6 approved. We are pursuing all available
7 avenues on 83.14s as we're doing dose
8 reconstructions, both through ORAU, our own
9 OCAS health physicists as they work on dose
10 reconstructions, and the Battelle contract.
11 The Battelle contract -- this is on our web
12 site so you can see it if you go there, but --
13 was a contract for a one-year period to look at
14 over 1,400 claims across what, 250-some sites,
15 so there's a large number of claims but a small
16 number per site. And these situations had
17 existed in our -- our claim population as we
18 worked on more -- sites that had more claims,
19 like Los Alamos, Hanford, Savannah River, Y-12,
20 those sites. As Battelle came to closure on
21 the -- on the contract period, it had a one-
22 year contract period to perform its duties, we
23 took a look at where things stood in September
24 of this year, knowing that the contract was due
25 to expire October 11th of this year. So about

1 a month before, we took stock of where things
2 stood with Battelle. We found that about half
3 the work had been performed for about half the
4 money expended. In other words, we gave them a
5 budget and they only expended half of that
6 budget and they performed about half of our
7 expectations in the scope of work, so we had a
8 large amount of money left on the table. We
9 had a lot of work left to be done. We -- we
10 partitioned that work and provided specific
11 expectations to Battelle -- you can see this in
12 the contract mod that is on our web site -- and
13 took away some of the sites from them, returned
14 them either to our own health physicists or to
15 the ORAU health physicist team. So the --
16 there's clear expectations on what Battelle is
17 to do till the current contract period that
18 they're working under expires in May of 2007.
19 As they move forward we anticipate that a
20 number of sites that Battelle's been working on
21 will become 83.14s. Dow is one of the first
22 ones that's coming out of that process, so we
23 have seen from Battelle two generic Technical
24 Basis Documents that speak to sites that were
25 processing uranium in a consistent way across

1 sites, and another Technical Basis Document
2 that -- my age, I'm just now -- I've lost my
3 train of thought on what that was presenting to
4 us, but at any rate, it was another general
5 Technical Basis Document that treated a group
6 of sites that processed radioactive material in
7 the same manner.

8 We're starting to see and have seen a number of
9 dose reconstructions come from those two site
10 Technical Basis Documents, but there's a lot of
11 other sites that are not going to be handled or
12 treated -- the claims won't be handled under
13 those documents.

14 **DR. MELIUS:** Can I -- can I pursue that?

15 **MR. ELLIOTT:** Yeah.

16 **DR. MELIUS:** Larry, don't sit down 'cause --
17 more questions. Then if I understand it
18 correctly, we would identify sort of through
19 the 83.14 process or -- or self-identifying
20 through -- through NIOSH potential SECs by
21 cases which -- where the dose reconstructions
22 could not be done as -- as you're doing dose
23 re-- actual dose reconstructions. That would
24 be --

25 **MR. ELLIOTT:** Yes.

1 **DR. MELIUS:** -- one methodology.

2 **MR. ELLIOTT:** Yes.

3 **DR. MELIUS:** The second methodology, which I
4 think I just heard you describe which I -- I
5 don't recall before, but -- I mean it does make
6 sense, is as you're doing a Technical Basis
7 Document that described a -- a site, part of a
8 site or -- or a process that might be -- or a
9 procedure that might be used across several
10 different sites, that you would identify that -
11 - that dose reconstructions could be not done
12 for that --

13 **MR. ELLIOTT:** Could be done for that.

14 **DR. MELIUS:** Yeah.

15 **MR. ELLIOTT:** A Technical Basis Document that,
16 on a general basis, speaks to what happened at
17 a group of sites --

18 **DR. MELIUS:** Right.

19 **MR. ELLIOTT:** -- who were performing similar
20 work.

21 **DR. MELIUS:** And -- and -- and would speak to
22 whether or not dose reconstructions might be
23 feasible at those. I mean it -- I guess could
24 cut either way. Correct? I mean...

25 **MR. ELLIOTT:** Well, some -- these -- these

1 sites that Battelle was given either fit into
2 one of these two categories that are going to
3 be treated under these Technical Basis
4 Documents, these two general Technical Basis
5 Documents, or they're going to find their way
6 into 83.14s.

7 **DR. MELIUS:** Okay.

8 **MR. ELLIOTT:** Okay? An 83.14 starts in our
9 rule on dose reconstruction under Section
10 82.12, and you go to that section, you'll see
11 we run into a situation on an individual dose
12 reconstruction we can't reconstruct.

13 **DR. MELIUS:** Yeah.

14 **MR. ELLIOTT:** And that starts the whole 83.14
15 process.

16 **DR. MELIUS:** Okay. Then I'm going back to then
17 what was the ORAU report that has never
18 materialized, and I guess my question would be
19 is that a report that -- that the methodology
20 was flawed or was the performance of the
21 contractor flawed in terms of identifying --
22 seems -- seems to me that what we were seeking
23 there made sense. We were trying to find a --
24 a more general approach that might help to
25 identify situations where dose reconstructions

1 would not be feasible to do with sufficient
2 accuracy and that -- as part of that is -- and
3 I'm -- we were never given the details of what
4 ORAU was doing, or I don't recall what they
5 were -- what -- what they were doing, but
6 seemed to me it would -- might -- might have
7 been a more efficient approach. Right now
8 we're --

9 **MR. ELLIOTT:** Well, I don't --

10 **DR. MELIUS:** -- wrestling with this situation
11 where we're sort of identifying these case by
12 case, and it's problematic -- or we have the
13 case with General Atomics, it's -- it becomes,
14 you know, at least potentially problematic when
15 we try to generalize from a single case to
16 other cases at that -- or other situations at
17 that -- that same facility. So I'm just trying
18 to better understand why the original attempt
19 with ORAU apparently failed.

20 **MR. ELLIOTT:** It failed because the thinking
21 that went into their methods -- this is over
22 two years ago, you know, when we had a large
23 number of claims in our backlog, places that we
24 had not reconstructed dose for.

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

1 **MR. ELLIOTT:** Their methodological approach
2 toward that was flawed from the start, in fact
3 had in this purported proposed list in this --
4 this draft, situations where dose
5 reconstructions had already been done, so on
6 the -- on the face of it, it was flawed. We
7 did not accept it as a work product and -- and
8 we proceeded from that and divided out a number
9 of sites that had not been given adequate
10 attention or treatment up to that point in time
11 and put those in place in front of Battelle and
12 asked them to work on them while we were having
13 ORAU concentrate their efforts on things that
14 they had become competent and adept at.

15 **DR. MELIUS:** Yeah, I -- I'd just be careful
16 about characterizing the fact that one can do
17 dose reconstructions or have completed dose
18 reconstructions as disqualifying an SEC because
19 I think we've seen, you know, situations --
20 including today -- where you have completed
21 dose reconstructions at a site and we're still
22 saying it's an SEC. There are many --

23 **MR. ELLIOTT:** Well --

24 **DR. MELIUS:** -- feasible ways that it is
25 actually feasible to do and straightforward,

1 so...

2 **MR. ELLIOTT:** There's a lot that goes into
3 this, as you know.

4 **DR. MELIUS:** Yeah.

5 **MR. ELLIOTT:** And we're doing individual dose
6 reconstructions. As we do them, we look at the
7 site those originate from, and that has to be
8 taken into consideration when you start talking
9 about adding classes.

10 **DR. WADE:** All right, just to clarify -- excuse
11 me -- so now the potential list of 83.14 sites
12 is before the Board. I would expect that list
13 would grow.

14 **MR. ELLIOTT:** The -- yeah.

15 **DR. WADE:** Possibly at each Board meeting you
16 could bring that list --

17 **MR. ELLIOTT:** Yeah.

18 **DR. WADE:** -- to the Board and give them a
19 heads-up as to what's coming.

20 **MR. ELLIOTT:** Yeah, I -- you know, the --
21 frankly, I get beat up whether I bring you a
22 list or not, guys, you know? We talked about
23 should we come forward with this list today and
24 put LaVon on the mike or not with it, but --
25 and I said yes, let's put it on there, but it's

1 for information. No, we're not ready to defend
2 the -- these particular sites on this list at
3 this point in time. We're working on
4 developing the professional judgment that goes
5 to what can be reconstructed and what cannot be
6 reconstructed. That leads into an evaluation
7 report. Okay? There are more 83.14s on the
8 horizon than you see on this list, but we're
9 not -- you know, I'm not confident we should
10 have added them to the list at this point in
11 time. I'm confident that the ones you're
12 seeing today, at the end of the trail we're
13 going to say these are 83.14s; here's your
14 evaluation report, here's your -- here's where
15 we're at.

16 **DR. WADE:** But I think it serves the Board, as
17 soon as you are confident, that you bring that
18 information to the Board.

19 **DR. ZIEMER:** Other comments or questions?

20 (No responses)

21 Let -- let me ask a question, and I don't know,
22 NIOSH folks, if you'll want to answer this or
23 not, but is the Congressionally-mandated time
24 clock -- is the Congressionally-mandated time
25 clock on SEC petitions causing NIOSH problems?

1 And I see this many petitions -- potential
2 petitions coming forward and the workload they
3 might represent, and I don't -- don't answer it
4 if you don't feel comfortable going on the
5 record. It just seems to me that -- that this
6 could really stretch the agency's resources to
7 address vast numbers of these SECs in a timely
8 fashion.

9 **MR. ELLIOTT:** We're doing the best we can, and
10 we're trying to bring forward --

11 **DR. ZIEMER:** That's an answer. Probably you
12 should stop right there -- no. No, but -- but
13 actually, I -- I do worry about this some.

14 **MR. ELLIOTT:** Well, I mean I lose sleep at
15 night every night, too, worrying about this and
16 other things.

17 **DR. ZIEMER:** Yeah, because in part, in a -- it
18 sort of gets to -- I -- I mean we faced it sort
19 of group-wise, all of us, on the Mallinckrodt
20 situation, and we've got to be timely. But in
21 being timely, sometimes there's information you
22 can't get to, like we've talked about here
23 today -- well, what about this -- these
24 inspections. Well, maybe it's more than can be
25 done in the time available. That's one of the

1 problems that I see. I just --

2 **MR. ELLIOTT:** We use that, but we also look at
3 what we do get from the NRC. In many -- in
4 some instances it's not -- it doesn't add to
5 the value of what we've already got. But yes,
6 we are doing the best that we can. We're
7 trying to bring forward as many of these as
8 fast as we can. I think you're getting a
9 better insight into the process by us sharing
10 with you where we're at with this list. You
11 know, you probably haven't heard us talk much
12 about a professional judgment document. This
13 is something that gets created before the --
14 you know, the evaluation report. You've never
15 seen one. We don't have to share one with you,
16 but if you'd like to see one we can certainly
17 get that. The most important thing I think is
18 the evaluation report because that spells out -
19 - you know, we hope specifically spells out
20 what we cannot do and hopefully what we can do,
21 so we're doing the best we can.

22 **DR. WADE:** You've identified the correct trade-
23 off, Paul, between timeliness and completeness.
24 You know, we understand and respect the wisdom
25 of Congress and we work within it, but there is

1 that trade-off. I mean as -- as the time
2 periods are limited, then you can only do so
3 much during those time periods.

4 **DR. MELIUS:** Well, whether or not Larry is --
5 and his staff is stretched or whatever, I think
6 the Board is, certainly based on this list, and
7 I think --

8 **DR. ZIEMER:** Except we don't have the time
9 limitation on us, but it does stretch. I mean
10 the backlog starts to build up there, too, and
11 there is -- if not a mandated time, there
12 certainly is pressure from constituents for
13 their petitions to be dealt with, so it -- it's
14 a -- it's a shared problem, I think.

15 **DR. WADE:** Resources on all levels enter into
16 this, be it time or money. And you know, we'll
17 talk about this through the course of the
18 meeting.

19 **MR. ELLIOTT:** This is the reason why I felt it
20 best to have LaVon present the list to you so
21 that you can see what's coming down the pike.
22 You can already pinpoint now what you can
23 foresee coming to you in January -- or in
24 February, a number of these in February, and I
25 would submit that perhaps at the May meeting

1 you're going to see even a larger number coming
2 at you. That's my hope. That's our goal.

3 **DR. ZIEMER:** Now don't try to scare us, Larry.

4 **DR. MELIUS:** Well --

5 **DR. ZIEMER:** Wanda Munn.

6 **DR. MELIUS:** I have some further comments after
7 -- go -- go ahead, Wanda.

8 **MS. MUNN:** He's already scared me, and I
9 believe Jim has adequately characterized a
10 major concern we need to all have, as Lew has
11 referenced. This is not just a daunting task
12 for NIOSH and ORAU. This is a daunting task
13 for this Board, trying to maintain some
14 semblance of continuity without closing out the
15 processes that we have undertaken. Every --
16 every time we do something that asks for
17 further extended effort from any of the
18 agencies involved, we're also extending our own
19 effort. And that's -- if we are not very
20 careful, I think we'll all be overwhelmed by
21 that. That's one of the things hopefully we
22 can remain in the forefront of our thinking
23 when we go forward with these things.

24 **DR. ZIEMER:** Thank you. Jim, additional
25 comment?

1 **DR. MELIUS:** Yeah, couple of things I think we
2 ought to think about and I think we need to
3 take action on. One -- one is I notice that
4 for some of these petitions and evaluation
5 reports we're going to see, either at our next
6 meeting or very shortly here, we -- I don't
7 believe we've had -- I think -- I believe we
8 have for several of them site profiles. I
9 don't believe that we have workgroups that have
10 really addressed the site pro-- excuse me, the
11 site profile reviews. We have them and I don't
12 know if we have workgroups set up for some of
13 these, and that -- certainly having a active
14 group that's looking at the site profile can
15 help to facilitate the review, particularly
16 where it involves a large -- significant
17 portion of the site or large numbers of workers
18 and so forth as in the Rocky Flats site and so
19 forth. So I think that's something we need to
20 consider in terms of our scheduling and so
21 forth.

22 The -- the second thing I think we need to --
23 to do -- consider is should we form another
24 subcommittee that would address the 83.14
25 petitions. Those are generally small, sort of

1 self-contained, that -- that I think having a
2 workgroup that would review those -- prepare a
3 recommendation that would then come back to the
4 report (sic) if the recommendation -- you know,
5 recommendation would include a letter that --
6 you know, to the Secretary that we would
7 normally generate so that it might provide a
8 little bit more efficiency in dealing with it
9 where there are questions like we had questions
10 on General Atomics that would allow those to be
11 clarified before the -- the full Board
12 considers it and so forth. And I think it
13 would facilitate the process to address at
14 least the 83.14, and my suspicion is that as
15 this process moves along that Larry's going to
16 -- staff is going to be identifying a
17 significant number of those petitions and I --
18 those are the ones just for us to go through
19 and spend the time ta-- at the Board meetings
20 take a considerable portion of the Board
21 meeting. If we had those 11 sites at a Board
22 meeting, I mean there's the Board meeting right
23 there. I mean the ones that are potentially
24 identified now. And so I -- I think we need to
25 think about how to process those in a more

1 efficient fashion.

2 **DR. ZIEMER:** Good suggestion, and when we do
3 our Board working session later this week we
4 can talk about specific -- I think you're
5 suggesting actually a workgroup --

6 **DR. MELIUS:** A workgroup or a subcommittee --

7 **DR. ZIEMER:** -- or a subcommittee.

8 **DR. MELIUS:** -- I didn't know whether it should
9 be a standing group or --

10 **DR. ZIEMER:** Yeah, it actually could be
11 standing if you're going to deal with all
12 upcoming --

13 **DR. MELIUS:** Yeah.

14 **DR. WADE:** I would suggest we --

15 **DR. ZIEMER:** -- 83.14, but --

16 **DR. WADE:** It would start with a workgroup and
17 possibly morph into a subcommittee.

18 **DR. MELIUS:** Yeah.

19 **DR. WADE:** There's paperwork that would have to
20 be done, but I think it's an excellent
21 (unintelligible) --

22 **DR. ZIEMER:** And I think you're also suggesting
23 perhaps specific workgroups for particular
24 petitions, particularly if they're com-- more
25 complex, like perhaps the General Atomics is a

1 little more complex. Might be worth having a
2 group --

3 **DR. MELIUS:** A group look at that --

4 **DR. ZIEMER:** -- look at that in advance of our
5 meeting and then come prepared to make the
6 recommendation.

7 **DR. MELIUS:** Yeah, like Fernald, I don't
8 believe we have a workgroup dealing with that.
9 We've had a site profile review for a while.
10 LANL, do we have a --

11 **MR. PRESLEY:** I think we have (unintelligible)
12 --

13 **DR. MELIUS:** -- (unintelligible) LANL, either.

14 **DR. ZIEMER:** A number of these we have site
15 profile workgroups, but not --

16 **DR. MELIUS:** Not for LANL or Fernald, I don't
17 believe.

18 **DR. ZIEMER:** Fernald we don't, I'm not --

19 **DR. MELIUS:** LA-- LANL we don't, Ha-- Hanford
20 we --

21 **DR. ZIEMER:** I have the list with me somewhere,
22 we'll -- but we'll -- we'll look at that in our
23 working session -- good suggestion.

24 Wanda, you have an additional comment?

25 **MS. MUNN:** The possibility of a subcommittee to

1 look at these less extensive potential SECs is
2 one which requires a great deal of thought, I
3 think. Having contemplated how one might
4 expedite that for some little time, one of the
5 issues that rises I think is how amenable the
6 Board is to the possibility of accepting a
7 subcommittee's recommendations without
8 continuing to do the kind of vetting that we've
9 done as a whole Board in the past. And I
10 personally have been unable to get past that
11 barrier. Perhaps that's an issue that we
12 should discuss at great length here while we
13 are meeting as a full Board, because the
14 probability of accepting a subcommittee's
15 recommendation without what we're accustomed to
16 doing might be problematical for us.

17 **DR. ZIEMER:** But perhaps a subcommittee or a
18 workgroup could, in advance, ask some of the
19 kind of questions that have arisen here and
20 make sure that we're at least at a level of
21 comfort on what information is available for us
22 to make a decision. That doesn't mean that the
23 Board can't ask for additional things or have
24 additional comments and so on, but it does give
25 a -- an early look at some of these before we

1 are in full Board session and see who --
2 Robert, and then Jim.

3 **MR. PRESLEY:** The Board could go ahead and
4 outline which SEC petitions that we did want to
5 look at, or site profiles that we did want to
6 look at, you know, and set a group up. But I
7 agree with Wanda. You know, it's -- it's just
8 like today, I thought we'd breeze through
9 General Atomics until you get there and then
10 you see all this stuff, so you really don't
11 know which ones that are going to have the --
12 the glitches with and which ones we're not.
13 Now we -- we -- I think we could come up with a
14 list of the bigger sites that we'd probably
15 want to -- to do that with. I think we ought
16 to address that.

17 **DR. ZIEMER:** Jim?

18 **DR. MELIUS:** Yeah, I've got a little contrary
19 view based on our own -- actually -- at least
20 my observations of the Board. I mean I -- if
21 you look at all the activity that's done in a
22 workgroup on the dose reconstruction reviews,
23 on some of the other SEC and site profile
24 reviews, if you look at all the time that's put
25 into that, think of if that were -- all had to

1 be replicated in the Board meeting, and we
2 don't do that. And I think we do accept what's
3 -- a large amount of the work that comes in
4 from -- from our workgroups and it tends to
5 then focus us on what are the more important
6 aspects that really need to be discussed and
7 evaluated as a full Board, and I see no reason
8 why we couldn't, you know, evolve the same way
9 with the SEC -- particularly the 83.14s where,
10 you know, by definition we know what the NIOSH
11 recommendation's going to be so it's not like,
12 you know, we have to guess at that. And then
13 the question is just, you know, the issue of
14 the identifica-- the identification of any
15 issues and -- and, you know, is the
16 justification for that -- that adequate and
17 preparing a communication with it and I -- I
18 don't think it needs to be a, you know,
19 perfunctory review. I think it -- but it
20 certainly is something that, you know, rel--
21 relatively straightforward and I -- I think
22 would be much more -- a fairly -- should be a
23 fairly efficient process.

24 **DR. ZIEMER:** The other thing is that we do have
25 a -- one of our tasks for our contractor is

1 site prof-- or is SEC petition support.

2 **DR. MELIUS:** Yeah.

3 **DR. ZIEMER:** And on those, we -- we would have
4 workgroups and, for example, we do have a -- a
5 workgroup on the Chapman Valve SEC, we have a
6 workgroup on Rocky Flats, actually, which is
7 site profile and SEC, but -- so we have that --
8 yeah, on both -- we have that -- that model
9 already --

10 **DR. MELIUS:** Ye-- yeah.

11 **DR. ZIEMER:** -- for certain ones and it would
12 be a matter of extending the model.

13 **DR. MELIUS:** If we were doing Rocky Flats work
14 as a full Board, I mean we wouldn't get to
15 anything else for another two years, the way
16 the meetings are going.

17 **MS. MUNN:** Jim clearly sees this process as
18 moving more smoothly than I.

19 **DR. MELIUS:** Okay.

20 **DR. WADE:** And as always, the truth is probably
21 somewhere between, so...

22 **DR. ZIEMER:** Okay. Other comments? Thank you,
23 that's -- now when we have our working session
24 later in the week, why we can put some -- some
25 feet on these suggestions.

1 **DR. WADE:** Excellent suggestion.

2 **DR. MELIUS:** And could I -- I would just like
3 to thank Larry for presenting this. I didn't
4 mean to try to kill the messenger. I was just
5 trying to find out what happened to that ORAU
6 report we hadn't heard about for a while.

7 **DR. ZIEMER:** Thank you.

8 **DR. WADE:** Yeah, I, too, applaud NIOSH's
9 efforts for coming forward, so thank you.

SUBCOMMITTEE REPORT

MR. MARK GRIFFON, CHAIR

10 **DR. ZIEMER:** Now we have a subcommittee that
11 met earlier today and Mark Griffon -- and this
12 is now officially the Subcommittee on Dose
13 Reconstructions, has been rechartered, and that
14 group met this morning and Mark, you have a
15 report and recommendation?

16 **MR. GRIFFON:** Have a very brief report. I
17 don't want to duplicate the work we did in the
18 subcommittee, so this'll be very brief.

19 **DR. MELIUS:** I have lots of questions, so...

20 **MR. GRIFFON:** This morning we -- we worked on -
21 - primarily on this seventh set of cases and
22 selection of a seventh set of cases and -- and
23 what we made a preliminary decision, at least
24 amongst the subcommittee, was to -- we wanted

1 to sample additional cases and -- and pull --
2 pull cases, but we wanted to create some sort
3 of screening device that NIOSH can pull
4 additional information for us about these cases
5 and -- and it's -- this is information that's
6 not readily available in the database,
7 parameters that you can't pull off the -- about
8 the cases without actually opening up the full
9 case and looking at the case and -- but
10 nonetheless we feel like they're critical and -
11 - in -- in assuring that we get a good cross-
12 section of the cases that we're looking to
13 review in our overall audit. If you remember,
14 early on we created this matrix of what we
15 wanted to see at the end of the -- at the end
16 of the audit, sort of what we wanted to cover.
17 We wanted to cover various time periods,
18 various begin work periods, various types of
19 cancers, various sites at different levels
20 depending on the total number of claims to some
21 extent. So we had all these parameters we're -
22 - we're filling in all these boxes as we track
23 the cases through.
24 Now we're coming to a point where we're -- we
25 feel like we're -- we're finding so many of the

1 similar cases. If we pull them out randomly,
2 based on our previous selection criteria, we're
3 getting cases that basically -- well, OTIB-4 or
4 OTIB-8 and 10, they rely on the exact same
5 methodology that we've already reviewed and
6 discussed at length on the subcommittees and in
7 the previous write-ups, the first three sets of
8 cases that we -- we've written reports on. So
9 we thought we'd be better -- it would better
10 serve this audit process if we could find --
11 first select -- and that's why we've come with
12 32 cases that we selected. The notion is out
13 of the 32, after NIOSH -- if we approve these
14 32 as a full Board, NIOSH will take the 32
15 back, look through each of the 32 cases and
16 identify parameters that we came up with.
17 The ones we came up with which we thought would
18 help steer -- or help allow us to make a better
19 decision on whether we want to review the case
20 or not are the following:
21 Whether the case has neutron dosimetry pre- or
22 post-1972, and that's an important cut-- cutoff
23 to -- related to the type of -- of dosimeter
24 used for neutron detection.
25 The work area, and this one's going to be -- as

1 we discussed on the subcommittee, this criteria
2 -- you know, we -- we -- we could end up with a
3 field that has a lot of information in it. It
4 could be that a person was in one work area the
5 whole time. It could be a multitude of work
6 areas listed in this field, so we're not sure
7 exactly what we're going to get back. This is
8 kind of a trial approach. We think it's an
9 important factor in terms of -- for instance,
10 especially at some of the larger sites, we want
11 to make sure we -- we -- we think we're getting
12 a lot of -- of Savannah River Sites, for
13 instance, but if they're all from one
14 particular area at Savannah River, we may be
15 missing -- you know, we're not getting a good
16 cross-section of the types of cases that might
17 exist at Savannah River. So we want to -- we
18 want to try to get -- to -- to crack that nut.
19 One attempt is to try to have NIOSH include the
20 work area and let us see if we can better
21 determine is this case worth looking at or have
22 we looked at several of these types already,
23 that sort of thing.
24 Third factor is job title, which again, they
25 may have multiple job titles, but they say this

1 one is probably a little easier than work area.
2 Fourth is the external dose methodology and the
3 fifth is the internal dose methodology. And
4 those last two, a lot of times they're going to
5 include -- you know, for external they used
6 TIB-whatever, a certain Technical Information
7 Bulletin was used to establish the dose. It
8 may be a combination of things. It may be that
9 they used personal dosimetry and coworker
10 model, parentheses, TIB-whatever. But we'll
11 have at least a sense of -- and this -- this
12 will help us at least in those cases where we -
13 - we've seen TIB-4, which is a overarching
14 methodology, used in a lot of cases. This will
15 at least show us -- you know, sometimes in the
16 matrix that we get for our initial selection,
17 when it says full internal and external, it --
18 not that it's misleading, but it -- but it
19 might -- some of that could include a site-wide
20 model that's applied to all workers. And you
21 know, you -- if you -- if you weren't familiar
22 with the details of the process, you might
23 think well, full internal/external, they must
24 have all the bioassay for this individual and
25 do a -- you know, a bioassay calculation

1 specific to that individual. That may not be
2 the case for all -- for all those, so we want
3 to get a -- an impression of what type of
4 external method and internal method are being
5 used.

6 Then once we get that back for the 32 cases,
7 the notion is to -- and I think that Stu said
8 that I think by January, maybe it was possible
9 that we might get a product by the January
10 phone call of the Board --

11 **MR. HINNEFELD:** I specifically didn't promise,
12 but --

13 **MR. GRIFFON:** Yeah. No, I know, you didn't
14 promise. You didn't prom-- anyway, the idea
15 would be to then -- hopefully out of 32 we can
16 get down to 20 that will be -- that we're still
17 interested -- interested in at the end of the
18 day.

19 So NIOSH would bring that back to the
20 subcommittee, we'd go through that detailed
21 information and then come back with a proposal
22 for 20 as the seventh set. So it's a sort of
23 two-step process here, but I think we're going
24 to get to -- more useful type of reviews that
25 we're -- that -- that the whole Board will

1 benefit from, so...

2 **DR. ZIEMER:** Okay, questions for Mark?

3 (No responses)

4 So we will see the list then --

5 **MR. GRIFFON:** Yeah, I --

6 **DR. ZIEMER:** -- on --

7 **DR. WADE:** You want me to read the list?

8 **MR. GRIFFON:** Well, I was going to say, we
9 could -- we could go through the numbers that
10 were selected -- does everybody have the--
11 these?

12 **DR. ZIEMER:** Do we need to take action on this
13 list or are you -- are you waiting till they
14 look at the parameters?

15 **MR. GRIFFON:** I -- I was going to -- well, I
16 was going to say --

17 **DR. ZIEMER:** You'd like them to take action?

18 **MR. GRIFFON:** Yeah, I'd like them to take
19 action on -- on us going forward with these
20 parameters and --

21 **DR. ZIEMER:** Okay.

22 **MR. GRIFFON:** We can discuss the parameters
23 first if you want and then...

24 **DR. ZIEMER:** Okay, let's open the floor for
25 discussion, and Lew, if you'll go through the

1 list and I'm going to check on...

2 **DR. MELIUS:** Just in terms of the parameters --

3 **DR. ZIEMER:** Go ahead, Jim.

4 **DR. MELIUS:** -- I -- I would support those. I
5 think they sound reasonable. I think the
6 issue's more likely to come up that if after
7 the 32 go in and NIOSH comes back, I think
8 there may be some judgments on how to -- how to
9 weight different things in terms of balancing
10 those that'll get reviewed this -- this round,
11 but I -- I don't think I'd want to question any
12 of them until the -- we saw what -- saw what
13 comes back 'cause I -- I think that would be
14 the -- the thing. I -- I -- you know, I'd
15 agree, we ought to at least preliminarily
16 approve the 32, so -- if only to inform some of
17 us who weren't part of the subcommittee as to
18 what -- what you selected, but -- yeah.

19 **MR. GRIFFON:** We fully admit that this is a
20 sort of draft list of additional parameters,
21 and I -- I'm not -- I'm interested in work
22 area. I'm not totally confident that -- that
23 once I see what's delivered, it's going to be
24 very hel-- you know, so -- so it may be that,
25 you know, if -- if we get 32 cases here and 15

1 of them have, you know, eight -- eight or nine
2 buildings listed or whatever, it may not be
3 helpful in us determining, so we'll have to --
4 but we -- we decided it might -- at least the
5 subcommittee decided that it might be a
6 worthwhile draft proposal. Let's look at these
7 32, see how this setup works and we can always
8 refine it as we go forward.

9 **DR. WADE:** Any other discussion? What I can do
10 now is read you the 32 cases or refer you to
11 them on your list.

12 In your tab under "Dose Reconstruction" you'll
13 find a series of papers. They're really broken
14 into two parts. I believe that the first one
15 is full internal and external, as it said at
16 the top of the middle. What I'm going to do is
17 walk you through and identify 15 of those cases
18 that the subcommittee has identified. Okay?
19 The first one -- I'm going to read the last
20 three num-- well, the last three numbers is
21 302, and then 306, 314, 322, 327. Next page,
22 335, 337, 351, 354. On to page three, 375,
23 393*. Page four, 455*. Page five, 480, 490.
24 And page six, 509. Those are the first 15.
25

1 If you go to the next document in that
2 sequence, up at the top you'll see random
3 selections. And I'm going to read you 17 cases
4 that have been identified there. The first on
5 page one is 013. On page two, 017, 028. On
6 page three, 054, 056 and 063. On page four,
7 076, 079, 081 and 099. On page five, 102, 104,
8 126. On page six, 132, 141, 154. On page
9 seven, 166. And that should be 17 on that list
10 for a grand total of 32.

11 **DR. ZIEMER:** Okay, everyone have the -- the
12 items? Now what we want to do is approve these
13 for the screening process that Mark described,
14 and from that -- Mark, how will -- how will we
15 reach the next 20?

16 **MR. GRIFFON:** Well, the -- the -- that --
17 that's the question. The -- I think NIOSH is
18 going to bring that back to the subcommittee --

19 **DR. ZIEMER:** And then you'll (unintelligible).

20 **MR. GRIFFON:** -- and then we're going to look -
21 - we're not sure exactly how these are going to
22 be -- are going to fall out --

23 **DR. ZIEMER:** So --

24 **MR. GRIFFON:** -- so we're going to review them
25 one by one and go through -- yeah.

1 **DR. ZIEMER:** Okay. So this comes as a -- as a
2 recommendation from the subcommittee. It
3 constitutes a motion. It does not require a
4 second. Any discussion?

5 (No responses)

6 If not, we'll vote. All who favor sending
7 these forward for the screening process, say
8 aye?

9 (Affirmative responses)

10 Any opposed, say no?

11 (No responses)

12 Abstentions?

13 (No responses)

14 Motion carries. Thank you very much.

15 **DR. WADE:** And with an eye towards the future,
16 SC&A has indicated that if the Board -- the
17 subcommittee and then the Board could identify
18 the seventh set of 20 by the June -- excuse me,
19 by the February Board meeting, that would allow
20 them to maintain continuity. We have an eighth
21 and a ninth set also to address this year.

22 **DR. ZIEMER:** Mark, if I could ask a question,
23 and then -- Jim, go ahead.

24 **DR. MELIUS:** I have a question and I -- I may
25 have missed this in all the paper that we get.

1 Are we keeping any sort of a tally that would
2 allow us to -- sort of a running tally of what
3 cases we've selected and -- going through the
4 process by some sort of cross-tabulation by
5 site and by --

6 **DR. ZIEMER:** Yeah, they have that. Stu --

7 **MR. GRIFFON:** NIOSH is tracking that for us.

8 **DR. MELIUS:** I think it'd be useful for the
9 other members of the Board to have --

10 **DR. ZIEMER:** We have it --

11 **DR. MELIUS:** -- that, also.

12 **DR. ZIEMER:** -- by site, by cancer, by POC --

13 **MR. GRIFFON:** Right.

14 **DR. MELIUS:** Yeah.

15 **DR. ZIEMER:** -- by number of work years, the
16 regular sort parameters. I think these
17 screening ones are ones which don't come out in
18 the normal sort, that they have to go into the
19 cases to --

20 **MR. GRIFFON:** Right.

21 **DR. MELIUS:** Right.

22 **DR. ZIEMER:** -- so they're a little more
23 difficult to --

24 **DR. MELIUS:** Yeah, but it would be useful for
25 the other Board members to have that and just -

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DR. WADE: Stu, if we could ask that that be shared before the next Board meeting.

DR. MELIUS: Yeah, which would be fine in terms of timing.

DR. ZIEMER: Mark, are you in a position to give us a quick update on the status of the matrix for cases 61 through 80, which would be the fourth set, which are still in process but are -- are getting toward closure.

MR. GRIFFON: Yeah, yeah, a very quick update. We've -- we had a meeting on November -- was it in November?

MS. MUNN: Yeah, it was November -- toward the end of November.

MR. GRIFFON: Anyway, we had a -- a DR -- yeah, the 16th or 17th, somewhere in there I think -- had a meeting of the subcommittee and we discussed the fourth set of cases and we started the resolution process, the finding resolution process. At that time NIOSH provided their responses to SC&A's finding in matrix form. We went through most of those and we -- we have at least a preliminary resolution and -- and in some cases -- actually there's --

1 several of the -- of the -- I think it was two
2 out of three of the best estimate cases NIOSH
3 is actually redoing the dose reconstructions
4 and they -- they were ones that were very close
5 to the 50th percentile I think so there was --
6 so there's -- there's follow-up action such as
7 that where -- where NIOSH is -- is actually
8 redo-- or -- redoing a fairly extensive amount
9 of work on -- but we did go through the whole
10 first step of the resolution process. My sense
11 is that I can update this matrix and probably -
12 - I don't know how we've done this before, but
13 I think we could probably be in a position to
14 distribute it to the Board -- you know, an
15 update on this -- and probably close to closure
16 in February. I might be getting ahead of
17 myself, Stu, but I -- I -- I think we might be
18 in a position to close on this in February at
19 the next Board meeting, so that's kind of a
20 very brief status review on that. Am I -- am I
21 accurate on that, John, or is Kathy or Hans on
22 the -- on the line?

23 **MS. BEHLING:** This is Kathy Behling --

24 **DR. MAURO:** Yes, I believe we spent that day --

25 **MS. BEHLING:** -- yes --

1 **DR. MAURO:** -- it was a Friday, I remember --

2 **MR. GRIFFON:** Hold on, Ka--

3 **DR. ZIEMER:** Kathy, are you on the phone?

4 **MS. BEHLING:** Yes, I am.

5 **DR. WADE:** Could you speak --

6 **MS. BEHLING:** Can you hear me?

7 **DR. ZIEMER:** Did you hear Mark's comment?

8 **MS. BEHLING:** Yes, I did, and Mark is accurate
9 with everything. The only thing that I would
10 ask, and I assume that you implied this, is
11 that when we continue on with the fourth set of
12 the -- for the resolution process that we will
13 have some response by NIOSH as to those open
14 cases that we're asking them to review.

15 **MR. GRIFFON:** Right, right, so there -- there's
16 definitely some actions that NIOSH is working
17 on. At least two or three of the cases I know
18 are -- are going to require a fair amount of
19 work, so -- but I think -- I think we're still
20 on course to probably close the fourth set out
21 for the February meeting. That's -- that's my
22 goal on this. And like I said, I think in the
23 interim I've -- I've missed this homework
24 assignment, but I -- I do have all the
25 handwritten notes on the resolution from the

1 last meeting. I can update this matrix and
2 circulate it so people are in the loop on -- on
3 where we stand on the -- the review.

4 **DR. ZIEMER:** And then cases 81 through 100,
5 which would be the fifth set, I believe that
6 SC&A distributed that report within the past
7 week.

8 **DR. MAURO:** Yes.

9 **DR. ZIEMER:** And so you should have gotten
10 that, and from that the matrix will be
11 developed for that as well.

12 **MR. GRIFFON:** Yeah. Yeah, and I think SC&A is
13 well along -- might even have a draft matrix
14 ready, but we'll -- that's in the pipeline, so
15 -- yeah.

16 **DR. ZIEMER:** Good.

17 **MS. BEHLING:** Yes, I have -- this is Kathy
18 Behling again, and I have developed a draft
19 matrix and I have forwarded that to the -- the
20 Chair of the working group, to Mark.

21 **MR. GRIFFON:** Right, okay. So we'll get --
22 we'll pull that into the next subcommittee
23 meeting, too, as well.

24 **DR. ZIEMER:** Okay, thanks. Is there anything
25 else for your subcommittee, Mark, that you need

1 to report on? Any questions for the
2 subcommittee?

3 (Pause)

4 **PUBLIC COMMENT**

5 We do have a public comment period scheduled
6 shortly. We will take a break just before
7 that, but I do want to ask -- I want to make
8 sure that the individuals who signed up are
9 here. Dan McKeel, I saw Dan earlier today --
10 yes, hi, Dan. And John Ramspott -- is John
11 here -- thank you. And George Luber? Is it
12 Uber or Luber? Luber, good, okay.

13 **UNIDENTIFIED:** L-u-b-e-r.

14 **DR. ZIEMER:** Okay.

15 **DR. WADE:** L-u.

16 **DR. ZIEMER:** L-u-b, Luber. And Larry Burgan?
17 Okay. I want to ask the four of you -- our
18 public comment period is scheduled for 5:00,
19 but does anyone object if we start it at 4:30?

20 **UNIDENTIFIED:** (Off microphone)

21 (Unintelligible)

22 **DR. ZIEMER:** It's okay?

23 **UNIDENTIFIED:** (Off microphone) I'm going to
24 withdraw (unintelligible).

25 **DR. ZIEMER:** Okay. Does the other three

1 speakers -- anyone object to going earlier?

2 **DR. WADE:** Okay.

3 **DR. ZIEMER:** Okay, then we will -- we will
4 recess for 15 minutes and then have the public
5 comment period at 4:30.

6 **DR. WADE:** If I might make a very quick
7 announcement, you'll notice that the
8 proceedings are being taped by the "Village
9 Image News" and they are being most discreet in
10 doing that, and just wanted to identify that
11 that was ongoing.

12 **DR. ZIEMER:** Thank you very much, so we'll
13 recess for 15 minutes.

14 (Whereupon, a recess was taken from 4:17 p.m.
15 to 4:35 p.m.)

16 **DR. ZIEMER:** This is our public comment session
17 for today, December 11th. Our first speaker
18 will be Dan McKeel. Dr. McKeel has been before
19 this Board on several other occasions. Welcome
20 back, Dan.

21 **DR. MCKEEL:** Good afternoon to the Board, Dr.
22 Ziemer. So as you all know, I'm a retired
23 physician and -- and now am the lead petitioner
24 for the Dow Madison site SEC 00079 now. I'm --
25 I also represent the Southern Illinois Nuclear

1 Workers or SINW. You should know, and we'll
2 talk more about this tomorrow, that we're also
3 vigorously advocating that NIOSH recommend an
4 immediate Section 83.14 for General Steel
5 Industries located in Granite City, Illinois,
6 and my colleague John Ramspott will have more
7 to say about the GSI site.

8 What I want to address with you now are the
9 timeliness issue again and SEC process issues
10 as they apply primarily to the Dow site. I
11 will also address the Battelle task order 16
12 and the GSI SEC issues in more detail tomorrow.
13 My overarching general concerns are that after
14 six years of EEOICPA, only two of 253 total
15 claimants -- and that would include 226 cases,
16 208 of which are unique; 80 have been referred
17 to NIOSH at Dow -- have completed dose
18 reconstructions, and only two have been paid.
19 At General Steel Industries, only four of 744
20 total claims, which represent 512 cases, 452
21 unique individuals, and 192 cases referred to
22 NIOSH, have completed dose reconstructions and
23 only one has been paid. So -- so out of the
24 total claims at both sites, only six people
25 have dose reconstructions, and we think that

1 the four at the General Steel site actually may
2 have worked for Granite City Steel and not
3 truly at the GSI site.

4 This rate is among the lowest in the entire
5 program. Neither site has a completed site
6 profile, any radiation dosimetry, a TBD or a
7 TIB that have been completed that fully address
8 the radiation source terms. Both have
9 acknowledged long residual radioactivity
10 contamination periods. The Dow site has never
11 been remediated for beryllium, which was widely
12 used there as an alloy constituent with
13 magnesium, aluminum and thorium.

14 So let's talk a little bit about timeliness and
15 the Dow situation. As a background, we have
16 supplied NIOSH with meeting PowerPoints,
17 affidavit and outreach meeting video footage,
18 and court reporter-generated verbatim
19 transcripts of three meetings held with Dow
20 Madison workers. We have supplied NIOSH with
21 37 affidavits that are relevant to SEC 00079.
22 We informed them that SINW has both Privacy Act
23 and medical -- HIPAA-compliant medical releases
24 that have been signed and notarized from all of
25 the affiants. Yet to our chagrin, we recently

1 learned that this information had not been
2 placed on the shared O drive to be viewed by
3 the Board, SC&A or others with a need to know,
4 particularly for the Dow SEC, or to see
5 documentation that may also be crucial to
6 resolving the Rocky Flats SEC that was
7 discussed again earlier today.

8 The same was true of all of the voluminous
9 material that Mr. Ramspott has supplied to the
10 OCAS office regarding General Steel Industries,
11 an issue which John may want to address.

12 I mention to the Board again my concern that
13 SEC petitioners are not treated equitably
14 because they have no direct access to
15 information on the O drive, even with ample
16 justification in the form of signed and
17 notarized Privacy Act and HIPAA releases. I
18 believe the Board and NIOSH should formulate a
19 policy to address the unfair current policy of
20 excluding petitioners with web access to the O
21 drive unclassified documents. They should also
22 formulate a formal policy and procedures for
23 providing access to all for classified
24 documents that relate to SEC petitions.

25

1 Efforts to obtain crucial documents from DOE
2 starting last February the 9th were obstructed
3 until recently when Elizabeth White re--
4 stepped in. On Saturday, last Saturday, her
5 office finally provided some of the Dow Atomic
6 Energy Commission Rocky Flats documentation we
7 needed to establish a direct link between the
8 Madison site and the Rocky Flats AEC contract
9 work related to metallurgic processing of
10 thorium and perhaps beryllium.
11 SINW was first notified of an 83.14 SEC for Dow
12 by OCAS on September the 5th, 2006. Litmus
13 case number one person had submitted the -- the
14 candidate as a litmus case had submitted Parts
15 B and D claims, D having now moved over to E,
16 in August of 2001. His Part E claim was only
17 recently denied. The Part B claim is still
18 open.
19 On September the 5th of 2006 I was told ORAU
20 would in the next 30 days certify the litmus
21 case and define the class. SINW or the litmus
22 worker heard nothing further after 60 days, so
23 I contacted OCAS and was informed that litmus
24 case number one was not okay because he was
25 employed after 1957/60 during the active

1 uranium work for Mallinckrodt in the SEC.
2 Delay in defining a class and selecting another
3 litmus case was explained because NIOSH
4 believed the NRC, the Nuclear Regulatory
5 Commission, might have relevant records that
6 turned out -- and that turned out not to be the
7 case. This raised a deja vu memories of
8 suddenly-discovered new records that turned out
9 not to be relevant, but significantly delayed
10 the Mallinckrodt SEC deliberations.
11 A new litmus case was assigned in November.
12 The Dow petition was qualified as SEC 00079 on
13 December the 4th, and I received the
14 notification letter December the 7th. For some
15 reason the SEC petition has not been posted on
16 the OCAS web site, despite my request to do so,
17 and I was told just yesterday that this was
18 because it has not yet been in the *Federal*
19 *Register*.
20 A hectic exchange of e-mails between SINW,
21 Senator Obama's office and NIOSH then ensued
22 about various details of the Dow class
23 definition and the availability of NIOSH's SEC
24 evaluation report. Many of these concerns were
25 expeditiously addressed by NIOSH through Larry

1 Elliott and Laurie Ishak Brier, whose efforts
2 we very much appreciated. That part of the SEC
3 process worked well; establishing the SEC
4 counselor's position was a major step forward.
5 NIOSH then flip-flopped twice, telling us first
6 the Dow SEC would be considered by the Board at
7 this meeting in Naperville, then telling us in
8 February at Denver. SINW protested and the
9 presentation date was moved back to December.
10 Then on December the 1st of this year Larry
11 Elliott provided seven reasons why the petition
12 would be presented to the Board in Denver in
13 February, five months after we were originally
14 informed about the SEC petition.
15 We still do not know the proposed NIOSH SEC
16 00079 class definition, whether or not it will
17 be modified by the Department of Labor on
18 review, or when we can expect to see a draft of
19 the NIOSH evaluation report. We learned a few
20 minutes ago that this might be sometime in
21 January of 2007.
22 We have been told by NIOSH that they would
23 restrict the class to 1957 to '60, which is too
24 limited, in our view. SINW believes the
25 residual contamination period should be covered

1 because thorium -- and beryllium, for that
2 matter -- are still on site, but the relevant
3 one, the thorium, that processing continued
4 into the 1990s with the commercial and the
5 nuclear streams not being separately
6 discernable.

7 NIOSH claims they can reconstruct doses
8 accurately to uranium exposure for
9 Mallinckrodt, but are unable to reconstruct the
10 doses due to thorium exposure.

11 Then I want to say a few words about the human
12 side of EEOICPA. The most troubling aspect of
13 EEOICPA 2000 to me is the documentation from
14 the Hostettler House Judiciary Subcommittee
15 hearings of active behind-the-scene efforts by
16 OMB and Labor to deny claimants benefits and to
17 thwart the SEC process. Memos obtained under
18 subpoena threat to HHS and Labor document this
19 unequivocally, even though Shelby Hallmark, in
20 his December the 5th Hostettler Subcommittee
21 testimony, and OMB officials deny this is their
22 intent.

23 I am shocked and awed and angry as both a
24 citizen and a taxpayer that agents of the
25 executive branch would try to deliberately

1 counteract the clear intent of Congress in
2 awarding nuclears their just due under the Act.
3 The driving force for this concerted campaign
4 appears to be to hold down costs. Mr. Hallmark
5 is worried the total program cost could reach
6 \$7 billion if SECs were awarded to all the
7 sites that merit one.

8 To evaluate this concern, one would first have
9 to see a detailed cost breakdown and weigh it
10 against the misery and total cost of the
11 present protracted process. These
12 comprehensive cost figures have not been made
13 publicly available, to my knowledge. My wife
14 Louise has asked this Board for total EEOICPA
15 costs at two regular meetings, but thus far the
16 data has not been provided that she has asked
17 for. And Louise may address the Board about
18 this matter tomorrow.

19 This slow pace of claims adjudications and
20 payments, and the low ratio of payments to
21 denials, are all testimony to the fact that
22 efforts to thwart the benefits payment are
23 indeed working.

24 Over 2,000 years ago the Pharisees were judged
25 harshly as hypocrites because they adhered too

1 narrowly to the letter of the then-current law.
2 Now as then I respectfully suggest the entire
3 EEOICPA program is missing the spirit in which
4 President Clinton and Congress enacted EEOICPA
5 in 2000. You will hear at this meeting from
6 Jim Burgess, a GSI claimant and now a friend,
7 who will exhort the Board to please decide to
8 expedite the process for GSI workers before he
9 dies. My plea and that of SINW is the same as
10 that of Mr. Burgess. Thank you very much.

11 **DR. ZIEMER:** Thank you very much, Dan. Board
12 members, do any of you have any questions for
13 Dan?

14 (No responses)

15 I was checking, Dan, while you were talking, on
16 the -- the Dow -- as far as I can tell, the Dow
17 report is not on the web site yet. Is that
18 correct, Larry? I don't -- I don't see it
19 myself.

20 **DR. MCKEEL:** Right. I understand it is maybe
21 on the way to the *Federal Register*, but the --
22 the -- and I -- I was told that it couldn't be
23 posted there until that occurs, so...

24 **DR. ZIEMER:** Is the Dow -- maybe I'll just ask
25 NIOSH in general -- the Dow Chemical one that's

1 on our list for coming to the Board in January,
2 is that Dow Madison that --

3 **DR. MCKEEL:** That's Dow Madison, uh-huh.

4 **DR. ZIEMER:** I just want to make sure we're
5 talking about the same one.

6 **DR. MCKEEL:** Yes, sir.

7 **DR. ZIEMER:** Thank you, Dan. John Ramspott.

8 **MR. RAMSPOTT:** (Off microphone) I promise this
9 is not a 400-page book. (Unintelligible) to
10 get brevity, couple of Board members were kind
11 enough to share -- oh, my gosh, we got enough
12 (unintelligible), and I've heard that in other
13 meetings so it wasn't anything new, but --
14 tried to put together something that -- a
15 little bit of an outline (unintelligible).

16 (On microphone) My name's John Ramspott and I
17 have definitely spoken to the Board and some of
18 the members in the audience before, and I
19 certainly appreciate the time. Quite some time
20 ago I actually made a commitment and a pledge
21 that I would try to bring you information about
22 General Steel Industries that has never been
23 published, and I would do it honestly,
24 accurately and try and do it scientifically to
25 the best of my ability. The 400-page book that

1 I gave to everyone, there was a section in
2 there that actually said if there's anything
3 contrary to what I put in the book, please let
4 me know, and I haven't received any nasty
5 letters or any phone calls or -- you know, hey,
6 you -- you're off-track.

7 What I'm going to tell you tonight actually
8 reflects some of that because now I'm actually
9 starting to see some responses to what we have
10 to talk about.

11 That cover page actually says it all, and I
12 know this is a uranium site, as well, but there
13 was something more radioactive than the uranium
14 there, way before the uranium ever came there.
15 It was called a betatron. And the title of
16 this is what did the betatron do to all the
17 inspected materials? Its danger of radiation
18 was not limited to just the AEC uranium metal.
19 The device and activation must be factored in.
20 I have asked government experts, NIOSH and
21 others, to include it. I also -- kind of
22 curious why it's never been pointed out in
23 previous documents. I've looked a lot of spots
24 about General Steel Industries; it's not there.
25 Were the GSI workers harmed? We believe

1 absolutely yes. Not just a few of them, many
2 of them. We feel now we know the real betatron
3 story and it's time to share this information,
4 50-plus years too late. Please review the
5 information as we proceed.

6 The first page -- I actually tried to put a
7 copy of the -- or I did put a copy of the -- I
8 call it the law all the time, but it's the Act,
9 and it clearly, on page eight of that Act, says
10 particle accelerators are part of the program.
11 Yet at one meeting in St. Louis I actually
12 heard the Board kind of happy to see a new
13 project other than just a radiation -- or a
14 uranium project to look at. Well, okay, this
15 one will really give you one.

16 In a recent e-mail that I received -- and I
17 want to definitely second the motion -- NIOSH
18 adding someone to help claimants is
19 unbelievable. It's fantastic. It works.
20 Because we're actually seeing some real results
21 now that haven't come out before. This e-mail
22 that came back to us, OCAS determination at
23 this point in time is that radiation exposure
24 can be estimated from skyshine -- that was in
25 my book -- and neutron activation/photofission

1 of the uranium metal as well as direct
2 irradiation of the metal itself. Well, I think
3 that may kind of answer the question we had
4 when I explained about the guys taking four
5 shots of the uranium with a 24-million volt
6 betatron, but there -- it's a good start. That
7 fission, that's not limited to the uranium.
8 And I think I heard earlier, and I've done my
9 homework the best I could and I really salute
10 Dr. Ziemer 'cause the target material in most
11 accelerator projects is the size of a head of a
12 pin. The castings of uranium at General Steel
13 Industries -- the one they talk about was the
14 ingot, 3,000 pounds. The dingot was bigger.
15 And then they also mention slices, slabs,
16 billets and rods. So the geography -- or the
17 geometry of those different items, and the
18 weight of them, bigger than the head of a pin
19 and you -- you're ex-- you're totally correct,
20 Doctor. I -- matter of fact, I've read the
21 article that you published with another
22 gentleman some time ago about the hazards with
23 medical accelerators, and I really salute you
24 because I don't think that'd be an easy
25 position to take 'cause I'm sure the medical

1 accelerator guys may have not been real happy
2 with that, but you told the truth and it
3 actually helped, I'm sure, make some people
4 safer that are using the devices. I think that
5 was the reason for the article. So -- tried to
6 do a little -- and that's just the medical
7 ones, so we tried -- you know, they are alike,
8 even though they're (unintelligible), they're -
9 - accelerator capabilities with electrons
10 producing neutrons, there's no difference.
11 The e-mail that -- the other e-mail we got from
12 NIOSH -- and I really -- again, there is no
13 site like General Steel Industries. It's
14 exactly -- I think it says you asked in your
15 previous e-mail if there were any sites similar
16 to GSI. We are aware of no other similar
17 sites. We had a lot of different things at
18 that site. Now -- and I tried to verify that
19 again and the ORAU TIB-04 Revision 3 dated
20 2005, it gives a list of the sites where I
21 assume this new TIB is being created to --
22 actually looks at these type of sites and
23 according to this there are no other betatrons
24 mentioned at any other site, so we think that
25 by itself makes us a -- a little unique. And

1 if you create a TIB that addresses everybody
2 else but it misses one, that's pretty
3 interesting.

4 Now as a result of our book and I think some of
5 the comments -- and again, I want to thank
6 NIOSH. They sent people in to actually do an
7 outreach meeting with us. We had real workers
8 there, tell the truth, it was both for Dow and
9 GSI. Some articles came up when we started
10 talking about accelerators, activation. One of
11 the articles I had found as a result of a
12 Privacy Act request with Dr. McKeel, who's now
13 shown me how to put those together. It was
14 actually about using a betatron. The title of
15 the article -- and it's from the Defense
16 Technical Information Center -- "Photon
17 Activation of Materials Subdirected --
18 Subjected to Betatron Radiography," the author,
19 Vincent Z. Kutemperer*. I'm going to read
20 little bits of it, but I have sets and I have
21 sets for anyone that wants them and I have
22 every document that I now have that I could
23 mail to you later. I won't burden you with
24 them now, but -- it starts out (reading)
25 Materials that have been radiographed using a

1 25-million volt betatron are analyzed for gamma
2 radiation using a high resolution nuclear
3 spectroscopy system -- I believe is correct --
4 nuclear spectra of the radiograph material
5 accumulated at different times after exposure
6 show the presence of both short-lived and long-
7 lived isotopes in the activated material.
8 General Steel had a 25-million volt betatron,
9 and a 24-million volt betatron.
10 The radioactivity of the metal after
11 radiography is explained. Radioactive isotopes
12 been in the news lately with the Soviet spy.
13 They're pretty dangerous when you ingest them.
14 And I'm not saying these guys ingested that
15 exact material, but now that it's in the news,
16 it got my attention a little bit more.
17 The radioactivity of the material after
18 radiography -- or I'm sorry, after radiography
19 -- is explained on the basis of the creation of
20 several isotopes which resulted from different
21 photonuclear reactions that took place in the
22 material during exposure. The analysis
23 presented in this paper clearly shows that
24 materials that have been radiographed using a
25 25-million volt betatron become radioactive.

1 The health hazards associated with the observed
2 radioactivity are pointed out. Those betatrons
3 were government owned. They were brought in
4 for our purpose. I'm totally not sure what
5 that purpose was. Was it to do the tanks or --
6 with their neighbor Mallinckrodt across the
7 river, or was it -- or did it just serve a good
8 dual purpose, because they started using it on
9 the uranium.

10 And back to our target size, most of their
11 castings -- tank turrets are 17 tons. We start
12 getting into some of the nuclear channel heads
13 and we're talking about 130,000 pounds, each
14 one of those getting 500 or 600 shots from a
15 betatron, the ca-- the big nuclear castings,
16 that's a lot of activation, and it does build -
17 - it is accumulative.

18 The abstract from the article that Dr.
19 Kutemperer* wrote -- and I'm going to stop here
20 just for a second, and that's why the outreach
21 meeting was so beneficial 'cause not
22 everybody's real sure about activation and we
23 all said we'd do our homework. I took for
24 granted the man was dead. Vincent would be
25 here today but he's in Washington, D.C. He was

1 a professor of nuclear engineering, physics,
2 mathematics at Milwaukee School of Engineering.
3 It's a pretty well-known school of engineering.
4 People like James Lovell are on the board, ex-
5 astronaut. It's a hundred-year-old school and
6 they're actively pursued for their quality of
7 their students, but Vincent Kutemperer* would
8 have been here today if he didn't have the
9 previous commitment. And he told me, he said
10 John, if I'd had a little more notice, but you
11 can tell those people I will be available for
12 conversation by phone, in person. He wrote
13 these articles in 1974. When I sent him the
14 book, all I heard was -- and I thought now I
15 got a legal problem -- John, why'd you write a
16 book about my articles? I wrote the book last
17 year. He said this is unbelievable. This is
18 exactly what I forecasted in my articles. I
19 actually applied for a grant and I was told I
20 had it, and it was from NIOSH, and the money
21 never came. I tried to warn people 30 years
22 ago. I'll do anything I can to help your
23 workers, help that Board understand the issue.
24 Feel free to give my name and phone number out
25 -- why, I'll do that conservatively, but he's

1 definitely willing to help.

2 Next page of course is a -- a copy of the

3 article, which I did find on the Internet

4 through the technical documents that were

5 available. Like I said, I have full copies for

6 you guys. The conclusion is pretty much by

7 itself. It's saying they really need to figure

8 out some safe handling procedures from -- for

9 material that's been X-rayed by a betatron, and

10 that obviously includes the uranium.

11 Well, looks like it was a little late, but

12 about 30 years later Los Alamos wrote the same

13 thing in the accelerator safety self guide,

14 which was in my book. One of the first topics,

15 unit three activation, said it happens with 10

16 million volts or more. It also mentioned

17 skyshine, which was in our e-mail. And I think

18 this part's really important. The effects of

19 shielding and skyshine are difficult to

20 calculate, so it is usual to make an actual

21 measurement of the dose rates under routine

22 conditions outside of the shielding. And I

23 don't know -- maybe I'm reading that wrong, but

24 I think it's just about as powerful outside as

25 it is inside if it goes over that little

1 shielding wall. And the owner of the property,
2 General Steel, they let us go on the site a
3 month ago, with cameras, with video. They
4 didn't do anything wrong. They're trying to
5 help the workers. That shielded roof, daylight
6 was coming through it. There is no shielded
7 roof. Those walls, we had a chance to measure
8 them. Those walls are about 24 feet tall.
9 That stuff went over the top of that like it
10 wasn't even there. The guys were walking
11 outside or in the plant right next door I would
12 think were affected by it.

13 And the next page, Professor Kutemperer --
14 actually a picture, a young dapper guy here and
15 his boss. The two of them have written
16 articles together at the Milwaukee School of
17 Engineering. Well, for one of the
18 commencements in 1970 they brought George H.
19 Tenney* to campus, and he's from Los Alamos.
20 I'm sure Los Alamos was recruiting these kind
21 of guys. And from my past research I believe
22 Los Alamos has a twin to this betatron. I
23 might be wrong, but I know they had a betatron
24 from Allis Chalmers.

25 And I wanted to put proof in here 'cause I told

1 you I'd be as straight and honest as I could.
2 The next page is a picture of the betatron at
3 GSI and a betatron at Missouri School of
4 Engineering. And you can look from the
5 pictures, they're twins. They use the same
6 machine, same platinum target in the machine,
7 everything's the same. The only good thing
8 they had, though, theirs was donated by Allis
9 Chalmers. And that guy on the casting that's
10 putting up film, that's a man you'll hear from
11 tomorrow. He's here, George Luber. The other
12 gentleman that's in the picture is going to try
13 and get here. He's ill, but he'll do what he
14 can.

15 I'm going to skip ahead a little bit if I
16 could, showing that it was donated by Allis
17 Chalmers, so we're talking apples for apples.
18 These are the same machines.

19 Then there's a recent news article. Vincent
20 apparently did talk to the press at that
21 outreach meeting. It was reported from Channel
22 4 news in St. Louis and his sister company
23 apparently talked to Vincent, and this guy went
24 on public record. I mean it's nothing -- he's
25 not hiding it. He's just sorry his words

1 didn't get out to the public sooner, and he
2 knows he was too late to help the GSI guys, but
3 he's worried about today. Then I got up a
4 little closer just to show apples for apples
5 again, same machine.

6 We can skip ahead a little bit, now we got the
7 uranium ingot. I wasn't making a -- I didn't
8 know we were going to talk about size of
9 targets tonight, but that's 3,000 pounds there.
10 And I thought it was kind of interesting. It
11 definitely confirms -- they used words like
12 "believed to have been used," I don't -- that's
13 too maybe-ish, to me. You know, betatron X-ray
14 apparatus. Why don't you call it a particle
15 accelerator; that's what it is, probably
16 brought over by rail -- well, they came by rail
17 and truck is what we were told, but the
18 handling of such operation's a pretty dangerous
19 thing, especially after you activate it.

20 I'll wrap this up a little bit here. There's
21 one real interesting piece, though, and I -- I
22 like a little excitement. There's a picture of
23 an X-ray cassette 'cause I did read an article
24 about medical accelerators and manufacturers
25 are very careful with the materials now that

1 they use around accelerators because when you
2 activate stainless steel, and that's what this
3 X-ray cassette is -- I have it in my car; it's
4 in a plastic bag. I've had it checked for
5 radioactivity by the fire department. They say
6 it's okay now, but that stainless steel when it
7 was activated, according to Los Alamos, if it
8 contains nickel -- which most stainless steel
9 does -- it turn that cassette into cobalt-60,
10 and these guys handle them all day long.
11 That's Los Alamos saying that, not me, and
12 that's Vincent Kutemperer saying that. And
13 I'll bet there's 40 other studies that say the
14 same thing. So when we start talking about
15 sources and trying to limit maybe GSI to -- oh,
16 there was uranium, it wasn't just uranium.
17 There was a leaky betatron that leaked out
18 radiation. There was air dust and particles
19 that got activated. There's uranium itself
20 that was pretty bad by itself and then it got
21 activated. And then can't take a picture of
22 that ingot unless you have an X-ray cassette,
23 that cassette became cobalt. There's more
24 cobalt there I think than the law would allow,
25 but they apparently didn't know it. But that's

1 not the guys' fault. They shouldn't be
2 penalized for that.

3 And unit three Los Alamos, this was a killer.
4 This hurts every time I read it. Grinding,
5 burning, machining and welding -- not supposed
6 to do that and that's all those guys did. They
7 ingested it. They ate it like popcorn every
8 day.

9 So again, just to prove sources and -- GSI
10 magazine, it actually shows a betatron. It
11 sees beyond the surface, through the very heart
12 of the casting, exploring the Internet -- or
13 exploring the internal metal structure. They
14 knew back then what it was doing. That's the
15 sad part.

16 Well, that pretty much wraps it up. The last
17 page in there has the fact there were 30
18 different alloys used over there minimally.
19 And when you activate something, you make it
20 something else. And when you pop it again
21 'cause you're checking it to see if you got it
22 fixed, now you're activating the activated
23 material, I don't know what it becomes.
24 And in closing, just thank everybody for your
25 time. I tried to do my homework, get accurate.

1 You folks are more educated in this than I am,
2 so I hope, you know, it gives you some reason
3 to help these guys get their -- some
4 satisfaction. That outreach meeting, too, I'm
5 going to go on record, that gave some of these
6 guys some closure that somebody was listening.
7 You know, and the way it was handled, they came
8 professionally. I thank everybody that was
9 there. It was first class. We tried to show
10 our respect by having it videotaped. You know,
11 there are definitely DVDs of the entire
12 meeting. The people that did it, the court
13 reporter, donated their time to help the
14 workers. Everybody's trying to help these
15 guys. I hope you folks will, too.
16 Any questions, if I made any mistakes or --
17 like I say, I have copies of all of Vincent's
18 works. You know, besides his two articles, he
19 did a book with 75 pages in it. I have a copy
20 of the grant request to NIOSH for the money.
21 It explains in detail exactly what it was. It
22 was 1974. I never met the man before in my
23 life, but I am going to go meet him in February
24 'cause I want to say hello and thank you and,
25 you know, ask him why he wrote his article

1 about my book.

2 Thank you all. Appreciate your time. Any
3 questions?

4 **DR. ZIEMER:** Thank you very much, John.

5 **MR. RAMSPOTT:** Thank you.

6 **DR. ZIEMER:** Questions?

7 (No responses)

8 Very good. Okay, let's go on to Larry Burgan,
9 and Larry I believe is with Dow, or was with
10 Dow.

11 **MR. BURGAN:** My name's Larry Burgan, B-u-r-g-a-
12 n. I was employed at the Spectrulite
13 Accelerating factory, which was the old Dow. I
14 was employed there for 14 years. The first
15 year I was in casting where they directly dealt
16 with beryllium and thorium, and for the second
17 year I was also in the -- in the rolling mill
18 where they also rolled the thorium plates and
19 sanded them and cut them. But the majority of
20 my time, 12 years, was spent directly on the
21 extrusion press, one press only and
22 exclusively, and it was the same press that was
23 used in the '60s and '50s to extrude the
24 uranium.

25 And my cases -- I was -- been both chronic and

1 acute dosage. And to explain it, the chronic
2 part would be the uranium dust that rained down
3 on top of my head for those 12 years that I sat
4 there. Now as you see from the Army Corps of
5 Engineers, there was a red dot in the middle of
6 the factory. That is directly over my desk.
7 Now they didn't clean the dust out from the
8 whole factory, from the whole building, just
9 over my desk. And this really alarmed me, but
10 they kept saying oh, it can't hurt you. It's
11 just the government trying to waste money. So
12 they -- I dismissed it 'cause I had no health
13 problems at the time.
14 Then when I did develop health problems, six
15 months later they got rid of me and all the
16 other employees. They gave a contract that
17 absolutely nobody would sign and in -- the
18 arti-- it was just to get rid of us, out of
19 sight and out of mind. My health problems
20 increased. I was bedridden for months, had to
21 learn to walk again. And the chronic part of
22 this is uranium. I never knew about was up
23 there, was never told about it by anyone. And
24 the government knew it was up there in '89.
25 They came back in '92, again in '96 and again

1 in '89, but he never informed us.

2 Now the acute part of my dosage was the
3 thorium-232. Now even though they ran thorium-
4 230 in the pot room, melted it, alloyed it,
5 then rolled it in the rolling mill, thorium-232
6 popped up was completely different alloy. How
7 did it get there? It's -- they never ran it
8 before. And looking through the records and
9 talking to employees, we ran it in secret.
10 They didn't tell us. Martin Marietta brought
11 it in.

12 And here's the time line. In 1986 this
13 company, Spectrulite, got a license to produce
14 thorium. In 1987 Martin Marietta came in and
15 ran it for one day, six ingots. Both those
16 helpers died four years later of brain tumors.
17 The operator's still alive, but he didn't
18 handle the material; he just pushed the
19 buttons. Then the government came in in '89,
20 two years later, and said that uranium-238 and
21 thorium-232 was in contents exceeding
22 guidelines. Then we ran six billets, but it
23 was already exceeding the guidelines, according
24 to the Department of Energy. So then -- but
25 none of this was known to us. So then they

1 came in and they leased the equipment again for
2 a week, Martin Marietta, and I ran it for five
3 days straight, these special alloys what they
4 told us. We kept asking what it was, and that
5 was the only response we got, special alloy.
6 We wasn't given no safety precautions, no
7 warnings, not even a choice. We -- they
8 brought us pizza for lunch, so we was eating
9 pizza with one hand and actually holding the
10 bare metal with our other hands, and this was
11 how we was handling it. They came back a month
12 later and leased it for three more days and
13 processed. We ran it again for three more
14 days, six or seven billets each day.
15 Now the government came in a year later and
16 took another readings, and again they said
17 concentrations were exceeding guidelines --
18 thorium-232 and uranium. And none of this came
19 to light until recently.
20 I became sick. Like I said, I was bedridden,
21 and when I started getting my health, I started
22 looking around on the computer to see what
23 causes my health could be, and this is where I
24 started to find information, talking to people.
25 I found Dr. McKeel, who's been a great source

1 of information and help. And every (sic) since
2 then my health has never gotten better. I'm on
3 permanent disability.

4 I've been a steelworker for over 20 years, six
5 years at one factor and 14 at this one, and
6 these last four years not working has been very
7 difficult on me, my family and my children.

8 And to get to the health issues, I have what's
9 called psoriatic arthritis where -- and
10 arthritis covers my whole body. I'm covered in
11 a complete rash throughout my whole body. I've
12 never been sick in my life. The very first IV
13 I've ever gotten in my arm was when I was being
14 tested for radiation by Dr. Laurence Fortes in
15 Iowa. That's how healthy I used to be. I
16 was able to kick over my head. I was such a
17 health person, and it just bottomed out.

18 A lot of my coworkers on this same machinery,
19 the same thing. One of them, 34 years old, has
20 to hook himself up twice a day to an IV because
21 his immune system bottomed out.

22 The first meeting we had was gentlemen in their
23 80s or 70s and 60s talking about the radiation,
24 uranium and thorium dust back in the old days.
25 Well, I got together a second study group of

1 everybody in their 30s and 40s and 50s who also
2 handled radioactive material, this thorium,
3 beryllium, and they also had to tell their
4 stories of how their health is affected and
5 their health problems and what's happened to
6 their lives.

7 The employee who worked with me that day we ran
8 the five billets -- the first two employees
9 died of brain tumors about four years apart.
10 Me and the coworker I worked with, we both have
11 health problems. His wife has the exact same
12 symptoms I have, almost to the letter --
13 rashes, arthritis, illness. His -- my wife has
14 almost the exact same illnesses he has, all the
15 way to the cyst on his liver and kidneys. He
16 had to have his gallbladder removed, but no
17 gallstones. My wife had to have hers removed;
18 no gallstones. She has lung problems, my wife
19 does; he has lung problems. And it just
20 varies. It just keeps going on. I could go
21 all day.

22 I've been to several funerals in the last
23 several months, and it just keeps growing. And
24 our financial problems -- because none of us
25 can work. My wife's health has deteriorated.

1 She was fired from her church because she
2 couldn't continue her duties. She was a Sunday
3 School teacher for 12 years and had to give
4 that up to care for me when I became bedridden.
5 And all this is all because of this radiation
6 that we was never told about, not once, never,
7 and we still -- you know, if it wasn't for us
8 digging this information up and talking to
9 coworkers and finding out their health
10 problems, none of this may have even came to
11 light, and that's probably what they wanted
12 when they put us out on strike and got rid of
13 everybody. They was hoping everybody would go
14 their separate ways and never talk, and none of
15 this would ever come to light.

16 As it is now, I have to stand in line at food
17 pantries for free food every month. I've been
18 doing this for over a year and a half 'cause we
19 have no money for food. We have to live just
20 on my Social Security, which is about \$1,000 a
21 month. I have no car. We have to decide
22 between medicines and utilities every other
23 month, and I was -- never want in this
24 position. I worked for a living -- to live,
25 not to die. And these people took that choice

1 away from us.

2 And this machine, this press than ran all this
3 radioactive material back in the '60s, back in
4 the '50s, all this hot uranium and then again
5 in the '90s and the '80s, this thorium, this
6 piece of machinery, just one piece of
7 equipment, would be somewhere safe, placed away
8 from the public. Right? Wrong. I found it
9 abandoned 50 feet past the county line, and it
10 had no identification whatsoever. I mean it
11 wasn't even on a trailer 'cause trailers have
12 serial numbers. It was home-made wheels and it
13 was abandoned.

14 Now the first red flag was before we went out
15 on strike they spent over \$100,000 to rebuild
16 it, yet they cut it up in scrap. The other
17 press was sold for a million dollars at the far
18 end of the factory where it wasn't radioactive,
19 but this one was cut up into scrap. The paint
20 was \$29 a gallon after it was rebuilt. Why
21 does paint cost \$29 a gallon? It's lead-based
22 to cover up the alpha particles and the
23 beta/gamma rays from uranium.

24 So I was both slow cooked and flash fried, and
25 I got both of the bad ends of both of the

1 deals. And not only me, but my coworkers. And
2 there is nobody to help us except you people.
3 And I'm not asking, I'm begging you people,
4 save our lives. We need our medicines that we
5 can't afford. We cannot work. We can't get
6 help, so I'm begging you people, please help
7 us. Thank you.

8 **DR. ZIEMER:** Thank you very much, Larry, for
9 sharing that with us.

10 Then Mr. Reavis? Yes, will be next.

11 **MR. REAVIS:** I wasn't figuring on getting up
12 here today, but after listening to the Board,
13 to NIOSH representatives, I've come to some
14 conclusions. One of the things I was going to
15 mention is the human aspect. The gentleman
16 that just spoke, you could not be more eloquent
17 about what he said. He said it perfectly.
18 I feel that when Congress mandated to EEOICPA,
19 they had good intentions. Those intentions
20 were to correct a wrong and turn it into a
21 right. Somehow in the last six or seven years
22 it's been turned the other way. Now we're
23 taking things and making them worse. It feels
24 like to me that this Board, in all due respect
25 -- and NIOSH, has walked into a swamp and got

1 lost. They've forgot what it's all about. By
2 your own admission here, right or wrong, I hear
3 you can or cannot tell whether dose
4 reconstruction works. You think it does. You
5 assume it does. You also have said doing the
6 best you can, and I realize that is what you're
7 trying to do, the best you can. But the best
8 you can is not good enough after six or seven
9 years. I've watched people die. My father-in-
10 law's gone, mother-in-law's gone. Two days ago
11 my wife just received a paper that her claim
12 was denied. My father-in-law had a rare form
13 of lung cancer. He had skin cancer, and I can
14 speak for my wife, it's long since past being
15 about money. Money has nothing to do with it.
16 It's right versus wrong, and what's been going
17 on is wrong. And I feel that all of this could
18 have been avoided, the swamp that you guys I do
19 believe are in -- you wouldn't have to be there
20 if in fact what I heard at the first meeting
21 that I attended back in 2001, that you do not
22 have to prove whether your cancer was caused at
23 your -- at your building or at your job site.
24 All you had to do was prove that you were
25 there. Those claims should have -- have been

1 paid five, six years ago. We're spending lots
2 of money. I heard lots of money on the table,
3 half the work done, half the money left over.
4 If all of those dollars would have been spent
5 on people like the gentleman that just spoke,
6 we'd be done with this. I would like to just
7 pray that somebody gets some guidance to get
8 this resolved in an honorable way. So far I
9 don't see it being honorable. Thank you very
10 much.

11 **DR. ZIEMER:** Thank you very much. We will have
12 another public comment period tomorrow.

13 (Pause)

14 The public comment period tomorrow is in the
15 evening, 7:30 to 8:30. I do want to -- Mark
16 just indicated there may have been some others
17 have joined us after we started this public
18 comment session. Are there any others that are
19 here that did not get a chance to sign up but
20 do wish to make public comment?

21 Yes, ma'am, please. Just --

22 **UNIDENTIFIED:** (Off microphone)

23 (Unintelligible) sign up?

24 **DR. ZIEMER:** Just come up to the mike -- just -
25 - you want to -- you want to speak now, you can

1 just come to the mike and identify yourself and
2 go ahead.

3 **MS. GATES:** I'm Mary Lou Gates. My father
4 worked at Blockson Chemical during the time of
5 the issue, from '51 till '62, and we've been
6 going on now for what, five or six years. And
7 he was number 100 and we were just -- he died
8 from lung cancer in 2002 and we were just
9 simply told that, you know, this was going to
10 happen. I thought it was just wonderful.
11 Jerry Weller* had called my dad when my dad was
12 real sick in 2000 -- in 2000 Jerry Weller
13 himself called my father and asked him --
14 because my father had a security clearance for
15 Building 55 -- and asked my dad if he would be
16 willing to help give some names of people that
17 were working with him, and Dad was so sick he
18 says no, I just can't do it. They've got the
19 information they need. That's all they need.
20 And that's -- we just thought oh, well, gee, we
21 didn't even know anything about this claim or
22 what was happening with this NIOSH until we
23 started getting all the information. So we
24 filed the claim and we were just simply told
25 that 'cause Dad was there, he was the

1 maintenance foreman there in that area and did
2 all that work, we just were assured that
3 everything was going to be, you know, fine. He
4 was going to get his money. He was -- he felt
5 so good when he passed away that Mom would be
6 taken care of with these problems. And then
7 two days ago we got the notice saying that he
8 was denied 'cause the dose reconstruction was -
9 - I don't know, 47.9 percent and he had to have
10 50 percent. So this is what -- we were a
11 little confused, don't know what we can do,
12 what we can do, so we got the letter saying to
13 sign, but the only thing in the letter says is
14 that sign it if you're going to agree with
15 this. So we're just kind of totally confused.
16 What do we do? We were told about a month ago
17 that -- what his dose construction was and that
18 this in turn was not a final denial, that it
19 would go to Washington for the final decision.
20 So they said just wait and see what Washington
21 does. If they agree with our dose
22 reconstruction, then of course he'd be denied,
23 but that doesn't mean he'll be denied; that's
24 just our opinion. So we just again sat back
25 until my mom then finally got the letter two

1 days ago saying that it was denied. But yet it
2 wasn't from Washington, so we were a little
3 confused over what do we -- what do we do?
4 This thing, if you say it's signed, says you
5 agree on their decision. It just seems that it
6 just isn't right.

7 **DR. ZIEMER:** There are some NIOSH staff people
8 here that can help you with that. Larry will
9 get you to the right person. I suspect the
10 thing that you're talking about signing is the
11 OCAS -- is it the OCAS-1 form -- which simply
12 says that you don't have any additional
13 information to enter into the record. I don't
14 think it says you necessarily agree with it.

15 **MS. GATES:** I mean I don't think that any -- I
16 mean I have a lot of information, but --

17 **DR. ZIEMER:** Yeah, but they -- they will --

18 **MS. GATES:** -- of course I don't think anything
19 I say --

20 **DR. ZIEMER:** -- they will help you with the --

21 **MS. GATES:** -- is going to help with the --

22 **DR. ZIEMER:** -- with the details on the --

23 **MS. GATES:** -- dose reconstruction or anything.

24 **MR. ELLIOTT:** I'll talk to her, but this is a
25 DOL letter, so --

1 **DR. ZIEMER:** Oh, a Department of Labor letter.

2 **MR. ELLIOTT:** -- this is not the OCAS-1.

3 **DR. ZIEMER:** Okay.

4 **MR. ELLIOTT:** This is a DOL letter providing
5 them a decision and asking them to accept or
6 deny going to the appeal process.

7 **DR. ZIEMER:** But --

8 **MR. ELLIOTT:** And I know you've already talked
9 with a PHA, a public health advisor, here. You
10 made an appointment in the other room?

11 **MS. GATES:** No, we haven't done anything. We
12 just --

13 **MR. ELLIOTT:** Oh, you haven't done anything?
14 I'll --

15 **MS. GATES:** -- came in late.

16 **MR. ELLIOTT:** -- talk to her.

17 **DR. ZIEMER:** Okay. We'll make sure you talk to
18 the right person --

19 **MS. GATES:** Well, thank you.

20 **DR. ZIEMER:** -- to follow up on this.

21 **MS. GATES:** Thank you.

22 **DR. ZIEMER:** But it doesn't mean -- I mean we -
23 - we don't know what the outcome will be, but
24 at least --

25 **MS. GATES:** No --

1 **DR. ZIEMER:** -- we can follow up on it for you.

2 **MS. GATES:** -- but we need to know 'cause we
3 got confused with the form that said --

4 **DR. ZIEMER:** Sure.

5 **MS. GATES:** -- sign it and then that waives all
6 -- that you're not objecting to anything.

7 Thank you.

8 **DR. ZIEMER:** Right. Thank you. Any -- any
9 others that wish -- yes, ma'am, please.

10 **MS. MARCOSKI:** My name is Bev Marcoski and I'm
11 here representing myself. My father worked for
12 Blockson, Owen Chemical, during the 1952 to
13 1962 period. I've read the SEC petition
14 evaluation report and I have three comments on
15 it. One is in regards to the phosphogypsum.
16 This was a byproduct of separating out the
17 uranium. I came up with an analogy.
18 Phosphate, you have this rock, and my analogy
19 was an egg you're separating. One you're using
20 a mechanical separation, the other a chemical
21 separation. The radon that comes from the
22 phosphogypsum was not included from 1962 to
23 1982 as it would relate to my father's death.
24 He died in 1982 of lung cancer. And I, too,
25 just got my percentage of causation as 39.06.

1 He was 58 years old.

2 My concern is the phosphogypsum is still at the
3 Owens site, and right now Waste Management is
4 looking at a \$23 million cost to take care of
5 that. The other part of the concern is this
6 was a byproduct of separating out the
7 phosphate, even though it di-- it wasn't
8 concerned with the uranium. I guess when I
9 looked at Technical Basis Document 1, it said a
10 minimal amount of the uranium went with the
11 phosphogypsum. Then I read Technical Basis
12 Document 2 and it said most of the radium went
13 with that. Radon comes from radium. So this
14 was there and it wasn't accounted for in these
15 men's lives, this amount of radon that's being
16 admitted (sic) by this phosphogypsum pile. I
17 do think the government should have some
18 responsibility for this waste product that is
19 there and how much it's contaminating.

20 I know the EPA has asked them to clean it up,
21 some of the storm water drainage. I don't know
22 how much else it is polluting in the area. So
23 again I guess my concern with it is it wasn't
24 registered from 1962 on when they -- when they
25 said they would account for radon with the lung

1 cases. I think they could have taken that
2 additional time period from whenever the people
3 were employed.

4 My second concern is page 31, organ dose, in
5 the SEC -- SEC petition.

6 (Pause)

7 Page 28, I'm sorry.

8 **DR. ZIEMER:** This is page 28 of the --

9 **MS. MARCOSKI:** 28 of the SEC petition. They're
10 using this information to give people the
11 benefit of having medical X-rays. My father,
12 again, had lung. But when you're doing a
13 medical X-ray, you're radiating this area.
14 What else is in this area is your thymus gland,
15 which is on this chart, and also bones, which
16 is also in this area. My concern is the immune
17 system is -- let me think of the words I want
18 to use for this -- the thymus gland and bone
19 marrow both work in controlling the -- the
20 autoimmune system creates T cells, and bone
21 marrow creates D cells, so this is another part
22 -- so if you're looking at lung, I believe you
23 have to look at the effect that radiation is
24 also having on the autoimmune system, which
25 includes the thymus cells and the bone marrow

1 cells. You're also radiating them, possibly
2 causing damage to the immune system. It isn't
3 just an organ by organ exposure calculation.
4 There are other factors that interplay into the
5 body's chemistry with the autoimmune system.
6 So I don't think you can select it out organ by
7 organ, especially if you're looking at lung.
8 You do have to consider bone marrow's function
9 and the thymus cell -- gland's function of
10 producing T cells that would also be affected.
11 My third one in the SEC petition has to do with
12 the health endangerment. Basically, common
13 sense. If you were exposed say roughly to 40
14 percent causation factor that your job caused
15 your cancer, I would consider that health
16 endangerment. I think maybe the bar that you
17 set at 50 percent causation factor is maybe a
18 little bit too high. If someone has a weakened
19 immune system and you come in with a ten, 20 or
20 30 percent factor, that can also cause -- have
21 maybe a greater effect than causation
22 percentage.

23 Those are my three comments.

24 **DR. ZIEMER:** Yes, and you actually raise some
25 very provocative points, which in a sense are

1 not addressed very well by the law. For
2 example, are there individuals who are more
3 sensitive to radiation than others. We are --
4 we are mandated under this law in a sense to
5 treat everyone the same, even though your
6 point, biologically, is probably a good one and
7 -- and of course the 50 percent bar is imposed
8 on us by the law, not by -- this Board does not
9 set that bar. That is a legal requirement, but
10 we understand the point.

11 I might add, interestingly enough, in some
12 other countries -- namely in Great Britain --
13 they have a sliding scale where the -- the
14 compensation is based on the percent. So if
15 you have, for example, a 40 percent probability
16 of causation, then your compensation is 40
17 percent of some number. And if it's 60
18 percent, it's 60 percent of that number and so
19 on, a sliding scale. And it's -- it's simply a
20 -- a different public policy than the U.S. has,
21 but perhaps every bit as valid. But the points
22 you raise are certainly -- from a biological
23 point of view, are -- are quite valid points
24 certainly. But thank you very much.

25 **MS. MARCOSKI:** Thank you.

1 **DR. ZIEMER:** I saw another woman in the rear --
2 yes, please.

3 **MS. MCCOLLUM:** Hello, my name is Carla Martin
4 McCollum, and I'm here to speak on behalf of my
5 father, who was a 40-year employee of Blockson
6 Chemical/Owen Chemicals. He worked there from
7 1950 to 1990. He's not able to come himself in
8 person because he's recently been released from
9 the hospital, but he has had a couple of bouts
10 of cancer in the past. He worked in the
11 building in question, Building 55, from 1954 to
12 1957. And what he would like -- he and my
13 mother would like to relay to the panel, what
14 is known.
15 The government did not protect the workers.
16 There was no monitoring, no protective or
17 safety measures were in place. No regular
18 follow-up physical exams were done. The
19 workers were allowed to come into direct
20 contact with materials. There was no
21 remediation at the site. Buildings were torn
22 down with no cleanup process was done of record
23 at the site to eliminate further exposures.
24 Models were created which were not based on
25 that specific site. They did not take into

1 consideration the individual, but instead
2 categorized the group. The people were taken
3 advantage of because of the scientific
4 expertise that the individuals lacked to refute
5 the denials. They also had a lack of monetary
6 support to hire those who could possibly help
7 them to refute those claims.

8 In other words, it looked good for the
9 government to announce a possible compensation,
10 but it appears that denial was their intent for
11 most of the exposed workers.

12 In summary I'd like to say four things. Number
13 one, the workers are on record for working at
14 the site. Number two, there were no proper
15 safety procedures followed. Number three, the
16 cancers/illnesses that were denied after review
17 could have been caused by exposure to the
18 material in question. Initially my father was
19 told that he had a very good chance to qualify
20 because of his illnesses. And last but not
21 least, most importantly, they did not inform
22 the workers about the substance that they were
23 exposed to. Thank you very much.

24 **DR. ZIEMER:** Thank you, Carla. Let's see, is
25 it Bev?

1 **UNIDENTIFIED:** (Off microphone)

2 (Unintelligible)

3 **DR. ZIEMER:** Oh, I -- we just heard from you.
4 I thought it was another one. Okay, here we
5 go. And then -- see if I can read -- is it
6 Jerry?

7 **DR. WADE:** Jerry Ozbolt.

8 **DR. ZIEMER:** Jerry, okay.

9 **MR. OZBOLT:** Thank you. My name is Jay Ozbolt
10 and I --

11 **DR. ZIEMER:** Oh, Jay --

12 **MR. OZBOLT:** Jay, yeah. I'm representing my --

13 **DR. ZIEMER:** -- thank you.

14 **MR. OZBOLT:** -- father, and a lot of the stuff
15 that -- that I would have brought forth is what
16 this lady just had given you, but my question
17 is -- and I've asked this of many people, can't
18 seem to get an answer -- fortunately, and --
19 apparently her father -- my dad's still living,
20 but my dad has some other problems in breathing
21 and -- and problems with his legs that they're
22 not exactly sure that maybe, because of the
23 exposure to this situation, that it hasn't
24 caused the problems and what he has now. Now
25 he was in that -- in Building 55 from late '59

1 until '62 when they shut that place down. I
2 personally had gone into that plant when my dad
3 was working there because I had worked for a
4 contractor taking stuff out of -- out of a
5 cinder pile that they have there and had seen
6 this operation. And I think, just like this
7 lady said, they were never identified and --
8 and told that what they were working with and
9 for what reason, so I guess what my question
10 would be is is there any way that they can --
11 you know, I don't understand what the -- when
12 the law was written how they can identify and
13 say okay, the individual has to be gone in
14 order to get the compensation. I mean if these
15 guys were not told what they were working with
16 and what ramifications it would go later on, I
17 mean I just don't understand how the -- the
18 governmental situation, that they can tie this
19 up and say he has to be deceased before
20 anything can be done.

21 **DR. ZIEMER:** Let me address that in part, but
22 I'm not aware of any requirement that the
23 claimant has to be deceased. There are many
24 living claimants. And for this particular part
25 of the program there is a requirement that the

1 individual have a -- one of a list of cancers,
2 so there are -- some other health effects which
3 one might associate with the workplace are not
4 covered by this particular compensation act,
5 but I'm not aware that -- of any requirement --
6 and Larry, can you confirm this? There's no
7 requirement that the individual be deceased, is
8 there?

9 **MR. ELLIOTT:** That's correct, there's no
10 requirement for a person to be deceased. If
11 they present with a cancer diagnosis and
12 they're still alive, they should file a claim.
13 If they have beryllium disease, they should
14 file a claim. If they have silicosis, they
15 should file a claim.

16 **MR. OZBOLT:** (Off microphone) Unfortunately
17 that was not what was explained to me the last
18 time I was at a meeting (unintelligible).

19 **DR. ZIEMER:** Okay. Yeah.

20 **MR. OZBOLT:** Thank you.

21 **DR. ZIEMER:** Okay. Yes, another comment, sir?

22 **MR. GIRR*:** Hello, my name's Cyril Girr. I'm
23 Beverly's older brother. My father, Cyril
24 Girr, passed away back in '82. And as she
25 described, he died of cancer and it was one of

1 the cancers that has been identified but the
2 causation percentage was 39.something, about 40
3 percent.

4 Some of the things that I don't understand,
5 basically, are the assumptions. When you read
6 over the literature, the causation percentages
7 were calculated on assumptions. And the facts
8 are there's a lot of people that died and are
9 sick and dying. So if you base these
10 calculations on assumptions, and the record-
11 keeping at Blockson's was minimal at that
12 extent -- you know, their safety -- if you look
13 at what's required now as far as OSHA
14 regulations and safety compliance, they were
15 basically non-existent at that time. So how
16 could you make assumptions to calculate an
17 exposure rate based on facts that really didn't
18 exist, and you're doing that basically on
19 assumptions. The assumption that should be put
20 into the calculation is the fact these people
21 are dead, or some of them are extremely sick
22 and dying, and that would give you the exposure
23 rate of 50 percent or greater right there.

24 **DR. ZIEMER:** Okay. I don't know if that's a
25 rhetorical question or not, but -- and one

1 would have to look at this particular case to
2 know what, quote, assumptions were made. But
3 there is an established methodology for coming
4 up with a number for each of the cases, so --
5 and it may be that in this particular case that
6 you may want to sit down with one of the NIOSH
7 staff people and have them go through that with
8 you. But we're required under the law to
9 operate in a certain way. These assumptions --
10 there are clearly uncertainties, but they're
11 not pulled out of the air. And in fact, if you
12 look -- if you look very closely, what you
13 learn is that the less we know about the dose
14 for a person, the more likely they are to get
15 compensated because of the way we make -- we
16 make assumptions that are highly claimant-
17 favorable. You -- you will find probably --
18 and I'd have to verify it, but I -- if you look
19 at people who -- where we have very good
20 dosimetry, the denial rate is likely much
21 higher the more we know about it because we
22 cannot operate with these broad assumptions.
23 But the assumptions that are made are made in
24 what I think we -- we believe are a highly
25 claimant-favorable -- and I -- I realize if

1 you're at the other end of this and a denial
2 has occurred, it may not look that way. But
3 indeed, that -- that's the basis for -- for the
4 assumptions that --

5 **MR. GIRR:** Well, I understand that --

6 **DR. ZIEMER:** Yeah.

7 **MR. GIRR:** -- and that was explained.

8 **DR. ZIEMER:** Yeah.

9 **MR. GIRR:** That was explained in the e-mails
10 that my sister received, that it was based on
11 these assumptions, but I still can't --

12 **DR. ZIEMER:** Yeah.

13 **MR. GIRR:** You know, if the facts of record-
14 keeping are not there, you don't know what kind
15 of direct exposures was given. You know, it's
16 -- it's -- you know, and it is based -- you're
17 -- you're -- you're basing it on a high
18 assumption --

19 **DR. ZIEMER:** Right.

20 **MR. GIRR:** -- but is that assumption high
21 enough --

22 **DR. ZIEMER:** Well, I understand your question -
23 -

24 **MR. GIRR:** -- based on what these -- yeah, I
25 mean if people are dying --

1 **DR. ZIEMER:** And indeed that -- that is the
2 question --

3 **MR. GIRR:** -- and they didn't meet 50 percent,
4 how could that --

5 **DR. ZIEMER:** Yeah.

6 **MR. GIRR:** -- you know, how could that
7 assumption be a valid assumption?

8 **DR. ZIEMER:** And it's a good question and it's
9 -- it's the question that the staff always
10 struggles with, and this Board does, are we
11 making the right assumptions, so -- but your --
12 your -- we understand your question. We
13 struggle with it, too.

14 **MR. GIRR:** Thank you.

15 **DR. ZIEMER:** Thank you. Other comments? If
16 not, I -- oh, yes, Mr. Miller.

17 **MR. MILLER:** Very briefly, it's been a long
18 time coming --

19 **DR. ZIEMER:** Could you identify yourself for --

20 **MR. MILLER:** I've got my (unintelligible) --

21 **DR. ZIEMER:** -- the court reporter in case he
22 doesn't recognize you.

23 **MR. MILLER:** Thank you. Mr. Chairman, I --
24 very briefly, Blockson Chemical has been a long
25 time coming. It was one of my favorite topics

1 for the longest time as to when radon dose
2 would finally be counted as part of the dose
3 reconstruction, and NIOSH developed OTIB number
4 43, which to my knowledge has not yet been a
5 matter that the Board has reviewed or that
6 Sanford Cohen has added to their list of items
7 to prepare for the Board. I just would like to
8 put one question on the table about OTIB number
9 43 and the question is -- it's based on some
10 Florida rock phosphate facilities and -- and
11 you -- you -- the question about how do you
12 account for uncertainty. That is unknown as to
13 who was exposed to what radon when, where you
14 were located. But this model assumes a 50
15 percent confidence interval. And normally when
16 you have production workers and you don't know
17 where they worked, but you knew they were
18 production workers, you use the 95th
19 percentile. Interestingly enough, this model
20 labels the 50 percent confidence interval the
21 best estimate, which is a bit peculiar because
22 normally we don't associate a best estimate
23 dose with a 50 percent confidence interval when
24 you don't have any data for individuals at that
25 facility, assuming it's permissible to use data

1 from another facility. And so I just would
2 like to put on the table that there may be a
3 matter for inquiry for the Board to look at to
4 see whether that model is in fact as claimant
5 favorable as we normally assume they are.
6 Thank you.

7 **DR. ZIEMER:** Thank you. I -- I think that TIB
8 may be on our list, we -- if it's not already
9 on -- we have a -- we have a number of TIBs
10 that are on -- on -- on the docket for review.
11 If that's not on it, it will be.

12 **DR. WADE:** I put it on.

13 **DR. ZIEMER:** Thank you. Any other comments?
14 Yes, sure.

15 **MS. REAVIS:** If your method of --

16 **DR. ZIEMER:** Please identify yourself for our -
17 -

18 **MS. REAVIS:** Oh, Linda Reavis. My dad worked
19 at Blockson and passed away in '95 with lung
20 cancer. But if there's only eight cases out of
21 the over 200 that worked at Blockson that have
22 reached a settlement and everyone else so far
23 has been denied, I don't know how that could be
24 claimant favorable because it seems like it's
25 just the opposite, so that was kind of one

1 point that you were just talking --

2 **DR. ZIEMER:** Yeah, I'm not sure what is eight
3 out of -- what -- Larry's not with us now, but
4 --

5 **MS. REAVIS:** So whatever formula they're using
6 for Blockson I don't think is the correct
7 formula, either. And if any man that worked in
8 Building 55 all those years and then was
9 denied, then like you're saying, you know, what
10 is the point? Why is -- what's that formula
11 doing? It certainly isn't working. For this
12 company it isn't.

13 **DR. ZIEMER:** Well, your point is well made and
14 we'll certainly be aware of that as we proceed.
15 Thank you.

16 **MS. REAVIS:** Okay.

17 **DR. ZIEMER:** Yeah. Thank you all for being
18 with us today. Again, there is a public
19 comment period tomorrow if -- if any of you
20 wish to speak, either again or additional folks
21 speak, we -- yes, and Senator Obama will be
22 here to address the assembly at -- we believe
23 at 11:15 tomorrow, speaking on behalf of his
24 constituents here. And also the regular
25 meeting will get underway at 8:30. So thank

1 you very much. We're recessed until tomorrow
2 morning.

3 (Whereupon, the day's business was concluded at
4 5:48 p.m.)

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CERTIFICATE OF COURT REPORTER**STATE OF GEORGIA****COUNTY OF FULTON**

I, Steven Ray Green, Certified Merit Court Reporter, do hereby certify that I reported the above and foregoing on the day of Dec. 11, 2006; 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 18th day of February, 2007.

STEVEN RAY GREEN, CCR**CERTIFIED MERIT COURT REPORTER****CERTIFICATE NUMBER: A-2102**