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convenes

MEETING 52

ADVISORY BOARD ON
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TRANSCRIPT LEGEND

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-- (sic) denotes an incorrect usage or pronunciation of a word which is transcribed in its original form as reported.

-- (phonetically) indicates a phonetic spelling of the word if no confirmation of the correct spelling is available.

-- "uh-huh" represents an affirmative response, and "uh-uh" represents a negative response.

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

-- (inaudible)/ (unintelligible) signifies speaker failure, usually failure to use a microphone.

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P R O C E E D I N G S

(1:15 p.m.)

WELCOME AND OPENING COMMENTSDR. PAUL ZIEMER, CHAIR

1 DR. ZIEMER: Welcome, everyone. I'd like to call the
2 meeting to order. This is the meeting of the
3 Advisory Board on Radiation and Worker Health.
4 We're pleased to be here in Las Vegas; pleased
5 to have the opportunity also during our meeting
6 to hear from a number of the local folks. In
7 that connection, there is a sign-up sheet in
8 the foyer for those who may wish to make public
9 comment later in the meeting.
10 Also there is a registration booklet. We ask
11 you to register your attendance. This includes
12 Board members, federal staffers, members of the
13 public. Just -- we would like to have a record
14 of who's in attendance here.
15 On the tables in the back of the room there are
16 copies of the agenda, as well as copies of a
17 number of documents that will be associated
18 with our deliberations today and for the next
19 three days, actually. So please avail
20 yourselves of those as well.

1 On the agenda we typically will follow along in
2 the order that's indicated. The stated times
3 in general are not time-certain times. That
4 is, if we go longer, we go longer. If we
5 finish sooner, we go on to the next item. So
6 we will consider the agenda as a guide, but
7 flexible as the need arises.

8 I'm Paul Ziemer, Chair of the Advisory Board.
9 Dr. Lewis Wade is our Designated Federal
10 Official. All such federal advisory boards
11 have a Designated Federal Official who helps
12 keep us in order and takes care of us in many
13 different ways.

14 Lew, we're glad, as always, to have you with
15 us. You have some opening comments for us.

16 **DR. WADE:** Well, first I bring you warm regards
17 from the Secretary of Health and Human
18 Services, Mike Leavitt; the Director of Centers
19 for Disease Control, Dr. Julie Gerberding; and
20 John Howard, the NIOSH Director. I always, at
21 every opportunity, thank the Board for its
22 service. Any of you who have had an
23 opportunity to watch this Board or its working
24 groups have to come away with the understanding
25 that this is as hard a working advisory board

1 as exists in my experience within the federal
2 government, and I thank them all for their
3 service.

4 I believe that tomorrow at 9:00 a.m. we're
5 expecting a visit from Senator Harry Reid to
6 come and speak to the Board. Just to let you
7 know, that doesn't appear on the agenda, but
8 that is at least the latest information that I
9 have in terms of the good Senator's visit to
10 us.

11 I'd also let you know that I'll be sharing this
12 chair with Dr. Christine Branche. She will be
13 taking over the responsibilities from me in the
14 near future, and you'll see her up here
15 sometime and me at other times. We're easy to
16 tell apart. I'm the good-looking one.

17 So those are my opening comments. Thank you
18 all for coming.

19 **DR. ZIEMER:** Well, that may be the reason
20 you're on your way out, Lew.

21 **MOUND PLANT SEC PETITION**

22 The first item on our agenda today is an SEC
23 petition dealing with the Mound facility in
24 Ohio. Board members, in your packet -- which
25 today, for most of you, is an electronic packet

1 -- you should have a letter of support from
2 Senator Brown in your packet -- Senator Brown
3 of Ohio. And then you also will have a copy of
4 the presentation that will be made here by Dr.
5 Ulsh momentarily. That should be in your
6 packet as well.

7 Also you should have received in the mail
8 earlier, or by FedEx earlier -- a couple of
9 weeks ago -- the evaluation report from NIOSH
10 on this petition. If you don't have a copy of
11 that, there are hard copies on the table in
12 back and basically Dr. Ulsh will be summarizing
13 the findings that are given in that evaluation
14 report by NIOSH. So at this time I'll turn the
15 podium over to Dr. Ulsh.

16 Before I do that, I want to check because one
17 of the Mound petitioners may be on the line and
18 I want to make sure that -- it -- it would be
19 Larry Russell, I believe, on behalf of [name
20 redacted]. Mr. Russell, are you on the line?

21 **MR. RUSSELL:** Yes, sir, I am on the line. Can
22 you hear me?

23 **DR. ZIEMER:** Yes, very well. And after Dr.
24 Ulsh gives his presentation we'll be pleased to
25 have any comments from you as well.

1 **MR. RUSSELL:** Thank you.

2 **DR. ZIEMER:** Okay. Brant --

3 **DR. WADE:** Before Brant starts, we do have a
4 conflicted Board member, Mike Gibson. Mike, so
5 you'll have to join the audience for this
6 discussion.

7 The Board has in its own policies that if a
8 member is conflicted on a particular site, they
9 don't sit at the table and participate in the
10 deliberations, discussions, motion-making and
11 votes surrounding SEC petitions. So Mike is
12 conflicted and therefore will not be with us at
13 the table. Thank you.

14 **DR. ZIEMER:** However, Mike -- who essentially
15 becomes a member of the public at this point --
16 could make comments as a site expert or member
17 of the public as well.

18 **DR. WADE:** Indeed.

19 **DR. ZIEMER:** Okay. Brant?

20 **DR. ULSH:** Thank you, Dr. Ziemer. I want to
21 take just a couple of minutes to make sure that
22 you all can hear me. Yes, in the back?

23 **UNIDENTIFIED:** No.

24 **DR. ULSH:** That's good? Okay. I'm going to
25 forego the --

1 the petitioners to dial in and to come in
2 person.

3 As Dr. Ziemer mentioned, I'm going to be
4 talking today about the Mound site. And for
5 those of you who have some familiarity with the
6 DOE complex, Mound is kind of a unique site.
7 If you think about two loose boxes you could
8 put DOE facilities into one or the other, in
9 the first box you might have the production-
10 type facilities. So if you think about like
11 maybe a Fernald or a Rocky Flats, they were
12 primarily focused on production. On the other
13 hand, in the other box you've got sites that
14 were more focused on research, places like the
15 national labs -- Los Alamos, Lawrence
16 Livermore, those types of facilities where they
17 focused really on basic research.
18 Well, Mound is a little bit unique in that they
19 did both. They had significant production
20 operations and they also had significant
21 research activities, so that presents some
22 unique challenges as we go forward here and
23 evaluate the Mound SEC petitions.
24 So just to give you a little bit of an idea
25 about what they did at Mound, the first major

1 mission that Mound was involved in was the
2 production and some research involved in
3 polonium-210, and those were used for
4 initiators in nuclear weapons. And Mound was
5 also involved in some research looking at
6 alternatives to polonium-210. Polonium-210 has
7 some undesirable characteristics for this job,
8 and so they were looking for some alternatives,
9 too. And they considered radium-226 and
10 actinium-227.

11 Sounded like I faded out there for a second.
12 I'm still live? Okay.

13 In addition, Mound did some research involved
14 with the civilian nuclear power program, and
15 those involved various nuclides of -- various
16 isotopes of uranium, also protactinium-231 and
17 plutonium-239.

18 Another big mission at Mound was the
19 radioisotope thermoelectric generator, and I'm
20 just going to call that RTG for short, it's
21 much easier. That program involved first
22 polonium-210, but later on also plutonium-238.
23 And finally Mound was involved in some research
24 and some activities with tritium.

25 Now this is not meant to be an all-inclusive

1 list. This is simply the major programs at
2 Mound. There were certainly many smaller
3 programs.

4 In terms of the history of the Mound site, the
5 activities were transferred from the Dayton
6 Project, and Board members might know that
7 better as the Monsanto site. And you recall
8 that we had an 83.14 petition to cover the
9 Monsanto site.

10 Those activities were transferred over to
11 Mound, and that transfer was completed in 1949,
12 and in February of 1949 the Mound site was
13 occupied and began operation.

14 Production continued through 1994. Now this is
15 a loose date. I don't want to make this a
16 hard, bright line because the RTG program
17 continued even after this date. It's just that
18 in 1994 the primary focus of the site was
19 shifted from production to D&D, decommissioning
20 and decontamination, and that happened in '94
21 and continued up through 2006, loosely.

22 Now in terms of the SEC process for this site,
23 we received two petitions, SEC Petition 90 and
24 Petition 91, and we received both of those
25 petitions in June of this year. The first

1 qualified in August and the second qualified in
2 September. Upon qualification these petitions
3 were merged, and so the initial class
4 definition that we worked with from these two
5 merged petitions was all employees who worked
6 at Mound -- through the petitions it said 1949
7 to present. We prefer to put a definite end
8 date on that, and so we used the earlier
9 qualification date. So 19-- February 1949
10 through August 17th, 2007.

11 Now I want to be clear here, this might be a
12 little confusing. This was the -- the class
13 definition that we established at the beginning
14 of the evaluation process. Don't take this as
15 we're recommending a class for this or -- but
16 this is what we considered.

17 Now to give you an idea of some of the other
18 activities that have been related to the Mound
19 site in this program, we typically use what are
20 called Technical Basis Documents, and there are
21 I think six of them, and together they make up
22 a site profile. And we use those documents to
23 tell us -- tell our dose reconstructors how to
24 do dose reconstructions for people from those
25 sites. And for the Mound site, the TBDs, the

1 Technical Basis Documents, were issued in
2 October -- well, between March and October of
3 2004. And those Technical Basis Documents have
4 been reviewed by SC&A, the Board's technical
5 audit contractor, and they issued their draft
6 review of that TBD in July of 2006.

7 We also conducted -- we, meaning NIOSH and the
8 ORAU team, conducted outreach meetings with two
9 of the unions active at Mound. That would be
10 PACE and the Dayton Building and Construction
11 Trades Council. And those meetings occurred in
12 January of 2005.

13 In addition, as part of our review of this SEC
14 petition, we conducted interviews -- at the
15 time I made this slide it was with 21 former
16 workers. In the intervening couple of weeks
17 here, the past couple of weeks, we've
18 interviewed three or four more, so we're up to
19 about 25 workers that we have talked to.

20 Now this slide gives you some of the data that
21 is available to us to conduct dose
22 reconstruction and to assist us in our
23 evaluation of the SEC petition. First and
24 foremost, as with most other sites, we rely on
25 dosimetry records. And at Mound we have a

1 couple of electronic databases available to us.
2 The first is the Mound Environmental Safety and
3 Health, or MESH, database. We also have access
4 to the Plutonium Reconstruction, or PURECON,
5 database. Similarly, we also have Polonium
6 Reconstruction, that's the PORECON database.
7 And we also have access to the paper copies of
8 these records when they used that, in the
9 earlier years. And I'll be talking a little
10 bit more about some of these databases later on
11 in the presentation. As usual, we also have a
12 variety of technical documentation available to
13 us, and that has been collected in the ORAU
14 Site Research database.
15 And finally, we also have documentation and
16 information provided to us by the petitioners
17 in the petitions themselves, as well as the
18 insights that have been provided to us by the
19 former workers that we have interviewed.
20 Okay, in terms of dosimetry, as of about a
21 month ago we had received approximately 500
22 cases -- 491 cases -- for dose reconstruction,
23 and we've completed 348 of them, as of a month
24 ago. In terms of the dosimetry that's
25 available for those 500 cases, 420 of those

1 cases have internal monitoring records and 430
2 of them have external monitoring records.
3 Okay. So let's talk more about the bases of
4 the petitions that were submitted. I've listed
5 here on this slide -- one, two, three -- six
6 bullets that -- that are the major concerns
7 that were raised in the petition, the first of
8 which was a concern that radiation monitoring
9 of workers and of materials was haphazard.
10 A concern was also expressed that radioactive
11 contaminated materials turned up where they
12 didn't expect it to, in non-controlled -- non-
13 radiologically-controlled areas.
14 The next concern was employees in non-
15 controlled areas prohibited from receiving
16 monitoring.
17 And there's some overlap in the next couple of
18 slides for these three bullets. I'm going to
19 talk about them and there's some overlap
20 between them.
21 The last three concerns expressed were the
22 control of Mound Laboratory documentation,
23 destruction of records and the integrity of the
24 radiation dose records.
25 So let's just walk through these. The first

1 concern, haphazard monitoring of radioactive
2 material and of workers. It is certainly true
3 that, like most other DOE sites that at least -
4 - that operated into the '90s, Mound's
5 operational history includes periods when the
6 monitoring -- the bioassay program and the
7 external monitoring -- was targeted toward
8 those workers who were judged to have
9 significant exposure potential. That is true.
10 And also, through the interviews that we've
11 conducted with former workers, we've confirmed
12 that that is the case here at Mound as well,
13 that -- that people with -- the workers with
14 the highest exposure potential or significant
15 exposure potential were targeted for the
16 monitoring program.
17 We also talked to several workers who confirmed
18 that yes, indeed, contaminated items on
19 occasion did turn up in clean areas. And I had
20 one RCT talk to me about how this happened, and
21 -- and the situation that he described was, for
22 example, complicated pieces of equipment,
23 equipment that had inaccessible interior
24 surfaces, they would decontaminate the outside
25 of the equipment, send it over to the staging

1 facility to get rid of it, and when they
2 started to pull that equipment apart -- lo and
3 behold, they discovered contamination that they
4 didn't expect to be there. So those are the --
5 that's one example of the kinds of situations
6 that we're talking about. And we did find
7 support for that concern when we talked to the
8 workers, so we're confident that -- that that
9 did occur.

10 In addition, the contractor was fined, under
11 the Price Anderson Act, for questions related
12 to bioassay program in the 1990s. And I want
13 to stress here that of course a regulator-- any
14 kind of a regulatory compliance violation is,
15 by definition, a concern. It's -- it's an
16 important issue. It doesn't necessarily mean
17 that it impacts our ability to do dose
18 reconstruction. But in this particular case,
19 the Price Anderson Act violations that I'm
20 talking about relate to the bioassay program at
21 Mound. So at least in the big picture it has
22 the potential to impact our ability to do dose
23 reconstruction, and what I propose to the Board
24 today is that we -- we really need to spend
25 some more time investigating this particular

1 issue because it does have the potential to be
2 important to what we do here. So that is going
3 to be one caveat that I'm going to mention,
4 that -- that we think this bears further
5 investigation.

6 Now the concern was expressed, as I just
7 mentioned, about the radioactively-contaminated
8 materials in non-controlled areas, and we did
9 confirm, through our interviews with workers,
10 that that was indeed the case. It did happen
11 on occasion, and not just once or twice, but
12 periodically. However, we don't see any
13 evidence that any significant exposures
14 occurred, in terms of intakes of radioactive
15 material, resulting in significant doses. And
16 keep in mind that Mound did have a bioassay
17 program in place. So we do think that this is
18 an important issue, but we don't see that it
19 impacts our ability to do dose reconstruction.
20 The next concern was that employees in non-
21 controlled areas were prohibited from receiving
22 monitoring. This -- this was kind of non-
23 specific and -- and as I mentioned that
24 certainly during the '90s only workers who were
25 expected to receive an annual dose of 100

1 millirem were required to be monitored. So it
2 is certainly possible -- in fact likely, I
3 would say -- that -- that people who were not
4 expected to receive that much dose were not
5 part of the monitoring program. That is
6 certainly the case.

7 But we didn't find any evidence that workers
8 were inappropriately denied monitoring. And in
9 fact, in -- in response to that situation I
10 just described, the Price Anderson Act
11 violations, towards the later '90s they kind of
12 went to the other extreme, and anyone who was
13 concerned about being exposed to anything, if
14 they requested a bioassay, they were given that
15 bioassay, even if, you know, they weren't
16 judged to have exposure potential. That was
17 kind of a reaction to that situation. So we
18 didn't really find that workers were
19 inappropriately denied monitoring.

20 Now the next issues -- the control of Mound Lab
21 documentation, Mound would be -- if -- if you
22 looked at a spectrum of the DOE sites, Mound
23 would be towards the end of being very, very
24 cautious, very, very tight with the
25 documentation. And as an example of that, take

1 logbooks. Any of you who have worked in a
2 laboratory perhaps -- oh, I keep trying to walk
3 in front of the slides here. Anyone who has
4 worked in a laboratory, for instance, or who
5 was perhaps a supervisor at a DOE site, you
6 might keep your logbooks. Well, what we find
7 is that the Mound logbooks were -- were
8 numbered sequentially, the pages were numbered
9 sequentially, just like a checkbook. And these
10 logbooks were born classified. And what I mean
11 by that is they would order a large inventory
12 of logbooks, sequentially numbered, and even
13 empty logbooks, they're classified. So if I'm
14 a researcher, I go into the -- the supply folks
15 and I say I need a logbook and they issue it to
16 me. That's classified, from day one. And when
17 I fill up that logbook and I go get another
18 logbook, that one's classified, too. So
19 certainly there was very tight control of Mound
20 documentation.

21 However, the information that we use for dose
22 reconstruction -- and this last bullet says
23 bioassay data; it should really say dosimetry
24 data -- is by -- is, by nature -- it's
25 unclassified and it is available to NIOSH.

1 That's the -- that's the type of data we
2 primarily use in dose reconstruction. And it's
3 also worth mentioning that, should we deem it
4 important or necessary, we do have access to
5 classified data and we have protocols
6 established to handle that type of a situation.
7 But the bioassay data and the external
8 dosimetry data is what we primarily rely upon,
9 and that is available to us.

10 Okay, the next concern. A lot of interest has
11 been generated about this particular issue, and
12 it is the records that were buried at Los
13 Alamos National Laboratory from Mound. And we
14 spent a lot of time investigating this, and
15 here's what we have found out. In 1995, as
16 part of the consolidation across the DOE
17 complex, the classified records were collected
18 into a couple of different locations. And some
19 of these records -- logbooks, for instance --
20 turned up contaminated with radioactive
21 material. And so in about 1995 Mound shipped
22 458 cubic feet of records down to Los Alamos.
23 That -- that absolutely did happen. And before
24 the records were shipped, though, they were
25 inventoried at Mound by the records staff.

1 Once they got down to Mound (sic), they sat in
2 less than ideal circumstances in terms of
3 preserving those records. However, right
4 around 1995 MJW Corporation was retained to do
5 a dose reconstruction for -- it's called a pre-
6 1989 dose reconstruction. And MJW personnel,
7 dose reconstructors, went down to Los Alamos
8 and took another look at these records, and
9 they -- they wound up pulling back I think it
10 was 43 boxes, because they were doing a quick
11 scan of -- of this 458 cubic feet, and anything
12 that might have any potential value for doing a
13 dose reconstruction, they pulled it back and
14 sent it back to Mound so that they could take a
15 closer look at it.

16 Well, once they got back to Mound and did go
17 through those logbooks, they found some
18 bioassay data in terms of -- think of it this
19 way. If I was a supervisor at Mound and I've
20 got -- I don't know, let's just say ten workers
21 under my supervision. Periodically I'm going
22 to get dosimetry reports on those -- on those
23 workers, and it says, you know, Joe Worker got
24 this many rem in this quarter. Okay. Well, if
25 it's of note, if it's, you know, particularly

1 high dose or particularly interesting dose or -
2 - for any reason, I might write it in my
3 logbook, Joe's got two rem, got to be careful
4 so he doesn't exceed limits. There were things
5 like that in the-- in these logbooks. That's
6 just an example.

7 But what MJW found was that all of the bioassay
8 data that was in these logbooks was al--
9 already available in records that had been
10 microfiched at Mound. So they didn't find
11 anything that, had they not pulled it back and
12 had it been buried, that would have impacted
13 their ability to do a dose reconstruction.
14 Nevertheless, these logbooks that they pulled
15 back, they had them scanned. They were part of
16 the A-basement* consolidation. They scanned
17 these records and those records were then sent
18 to Austin for safekeeping, so those are
19 available.

20 Once that was done, once they had been scanned,
21 those records that they had pulled back were
22 sent to NTS for disposal and they were disposed
23 of. The records down at Los Alamos were also
24 disposed of. So while it is certainly true
25 that records were disposed of, that's not

1 unusual. I mean they -- the DOE disposed of a
2 lot of records because, quite frankly, they had
3 guidelines about what they had to retain and
4 what they didn't, and these were not dosimetry
5 records so they didn't have to retain them.
6 So what were they, exactly. Well, they
7 included production records. They included
8 industrial X-rays, accounting records and some
9 laboratory logbooks. Here is the bullet about
10 MJW retrieving the 43 boxes, and again, the
11 important point is that they found that the
12 data that was in those logbooks was already
13 available in other Mound documentation, so it's
14 not the primary dosimetry information.
15 Okay, lastly, the concern was raised about the
16 integrity of radiation dose records. And what
17 I can tell you here is that as part of the MJW
18 dose reconstruction project, they looked at the
19 PURECON database. That, as you might guess
20 from the name, contains the plutonium bioassay
21 data. They looked at 100 percent of that
22 entire database. They looked at all of them.
23 And they found about what you would expect in a
24 database -- error rates in the single-digit
25 percentages, maybe five percent, I don't

1 remember the exact number, but they corrected
2 those. So it was pretty typical for, you know,
3 clerical type errors, and those were corrected.
4 In addition, MJW created the PORECON database,
5 and they did that with double-key data entry
6 and they QA'd that extensively, and that is
7 very well documented. So we have a lot of
8 confidence in the integrity of -- of that data.
9 And in fact, we didn't really identify any
10 problems with the integrity of the dosimetry
11 data available at Mound.
12 So that brings us to the end of the concerns
13 that were raised in the petition, and we issued
14 our evaluation report, as Dr. Ziemer mentioned,
15 in December of last year, just a couple of
16 weeks ago.
17 And now I'd like to talk to you, though, about
18 an issue that wasn't raised explicitly in the
19 SEC petitions, but it was raised in more than
20 one -- several -- of the interviews that we
21 conducted with former workers. And that
22 involves the operations that were conducted at
23 Mound from very early, October of 1949, and
24 spanned the next ten years up to 1959, and that
25 is the separation of radium-226, actinium-227

1 and thorium-228. The source materials for this
2 operation were K-65 residues -- Board members,
3 you might be familiar with that; we've talked
4 about it in other contexts -- and also
5 irradiated radium.

6 Now these operations were conducted in what's
7 variously known as the old cave. It's also
8 been called the radium cave. Officially it's
9 SW-19. And I -- I'm paraphrasing one of the
10 old-timers that we interviewed. He said that
11 was just a nasty, nasty operation. And we --
12 we like to -- at least the interviews that I'm
13 involved with, when we talk to the workers I
14 like my last question to be okay, we've asked
15 you about a number of issues; is there anything
16 that we haven't asked you about that you think
17 would be important in terms of our ability to
18 do dose reconstruction, something that we
19 should have asked you about and didn't. And
20 that's the context in which this came up, the
21 worker mentioned it.

22 And so we spent some time evaluating this. And
23 what we found, for example -- we looked at some
24 health physics progress reports. I don't
25 remember if they were monthly, but they were

1 periodic progress reports, and we found
2 language in there that that indicated to us
3 that the contamination was not confined to SW-
4 19, the old cave, but in fact it was spread
5 throughout R and SW buildings. We also know
6 that some other buildings were involved in
7 research to support this project, although I
8 can't really tell you the extent of that. And
9 we've seen air data for this. Now I can't
10 really go into the details about the pedigree
11 of that air data, but let's just say that it
12 was sufficient to indicate to me that there was
13 pretty significant airborne potential. And we
14 also have a very limited number of bioassay
15 data for this operation, radium, actinium and
16 thorium. However, as MJW noted, there are a
17 lot of problems with interpreting this
18 bioassay. In some cases it wasn't associated
19 with a particular worker. In some cases it
20 didn't have units on it. You had to assume the
21 age of the material when that wasn't specified.
22 And so there's just a lot of problems that we
23 felt would not allow us to put a sufficient
24 upper bound -- sufficiently accurate upper
25 bound on the internal doses from this

1 particular operation.

2 And therefore we concluded that reconstruction
3 of internal doses from these three
4 radionuclides -- radium-226, actinium-227 and
5 thorium-228 -- is not feasible. And the period
6 that that covers is from the time the material
7 arrived on site until the completion of D&D of
8 the old cave. And we know the month that that
9 happened. We know that it arrived on site in
10 October of '49 and we know that D&D was
11 completed in February of '59 -- don't know the
12 exact date, so we're taking the broadest scope
13 here and just saying October 1st, '49 through
14 February 28th, '59.

15 We have concluded, however, that reconstruction
16 of internal doses is feasible from 1959
17 forward, and I've -- I've put here 1990, with
18 that weird symbol that means sort of about
19 1990, and that's because of that caveat that I
20 mentioned early -- earlier, the concerns that
21 we have about the situation that led to the
22 Price Anderson Act violations, and those were
23 related specifically to the bioassay program.
24 And I'm not prepared to stand here today that -
25 - one way or the other, that yes, we can do

1 dose reconstruction, or no, those issues are
2 not important. What I propose to you -- we
3 have the documentation in hand, it's about
4 2,200 pages, and we are speedily reviewing that
5 now. What I propose to you is that we report
6 back -- I come back and report to you, Board
7 members, on what we find as we work through
8 that material.

9 We did find -- we did conclude that
10 reconstruction of external doses is feasible
11 for all years.

12 Okay, Board members will recognize this slide,
13 I think it's in every SEC petition, it's the
14 standard two-pronged test. For those of you
15 who are not as familiar with it, we have -- in
16 terms of deciding whether or not to recommend
17 an SEC class, there's what we call a two-
18 pronged test. And the first prong, the first
19 question that we have to answer, is is it
20 feasible to estimate the level of radiation
21 doses that a class could have received with
22 sufficient accuracy. Well -- and then if the
23 answer to that question is no, it's not
24 feasible, then we have to proceed to the second
25 question, and that is is there a reasonable

1 likelihood that health was endangered.
2 So our evaluation of the SEC petition for
3 Mound, through that two-pronged test, we
4 recommend -- NIOSH recommends addition of an
5 SEC class at Mound that consists of all workers
6 on site -- because again, we can't really say
7 who might have been walking through R and SW
8 buildings, whether or not they were monitored,
9 so we don't really think it's feasible to try
10 to limit this class more specifically than just
11 everyone who worked on site during the time
12 period of October 1st, 1949 through February
13 28th, 1959.
14 And so, to summarize, you see the first row
15 there on this last slide, the table, we do
16 recommend a class from '49 to '59 for internal
17 doses from those three radionuclides that we
18 talked about. Feasibility, no; we've concluded
19 that it is not feasible to bound doses for
20 these folks. And yes, we've concluded there is
21 a reasonable probability that their health was
22 endangered from that operation.
23 However, from '49 forward we are not propo-- we
24 -- we have concluded that we can do internal
25 doses from all other radionuclides, with the

1 possible exception -- an issue that we want to
2 investigate further, and that's related to the
3 D&D program, about 1990 into the D&-- into the
4 later years. It might be 1980s, late '80s --
5 again, it's not a bright line when they started
6 doing D&D, but it certainly ramped up in the
7 early 90s.

8 And finally, we've concluded that we can do
9 external for all years.

10 So I believe that is my last slide -- yes, it
11 is. I would be happy to entertain any
12 questions.

13 **DR. ZIEMER:** So Brant, is it true then that
14 your recommendation is basically saying that
15 this open issue on the Price Anderson issue
16 does not affect your recommendation on the
17 early years at all --

18 **DR. ULSH:** Oh, no, no.

19 **DR. ZIEMER:** -- so that part, from '49 to '59,
20 on -- on the internal dose from radium,
21 actinium and thorium, still stands, and the
22 1949 to about '90 period, depending on the
23 outcome of that --

24 **DR. ULSH:** Right.

25 **DR. ZIEMER:** -- you're saying you can

1 reconstruct doses --

2 **DR. ULSH:** Correct.

3 **DR. ZIEMER:** -- except the -- that part is
4 fuzzy.

5 **DR. ULSH:** Yeah, the end date -- the 1990 year
6 there is very approximate. I think that the
7 Price Anderson Act violations dealt with
8 incidents that occurred in -- 1992, does that
9 sound right? I'm -- I'm looking at the back of
10 the room to the conflicted Board member. Right
11 around there, right around 1992-ish, but it
12 wasn't only that -- okay, let me go into a
13 little bit more detail perhaps.

14 **DR. ZIEMER:** Well, the --

15 **DR. ULSH:** Or not.

16 **DR. ZIEMER:** -- the only -- the point of my
17 question is if the Board wished to take action
18 on the early period --

19 **DR. ULSH:** Yes.

20 **DR. ZIEMER:** -- then we would expect at some
21 point there would be a later action that would
22 clarify this other issue and we could determine
23 what to do at some other time on the later time
24 period.

25 **DR. ULSH:** That's exactly what I'm

1 recommending, yes.

2 **DR. ZIEMER:** I -- I see, okay. Josie I think
3 has a question.

4 **MS. BEACH:** Yeah, I have two questions
5 actually. The first one is on the actin--
6 actinium-227. In 1964 190 milligrams of
7 actinium was processed in the new cave. Does -
8 - does NIOSH have the bio data for that time
9 frame?

10 **DR. ULSH:** You know, Josie, I would have to go
11 back and look and see. I know that I've got a
12 spreadsheet back at the office that tells me
13 the bioassay data for all of those things. You
14 said 1964 in the new cave?

15 **MS. BEACH:** That's correct.

16 **DR. ULSH:** Yeah. The -- I would have to check
17 into that a little bit more and get back to you
18 with more details on that. I can tell you that
19 the new cave contained a hot cell, and I talked
20 to a couple of the guys who were working in the
21 hot cell, and what that typically is and what
22 it was in the new cave is the facility where --
23 you put the material inside, and it's shielded
24 by several inches of -- of leaded glass to
25 shield you from the external doses, and it's

1 got remote manipulators. And I specifically
2 asked one of the guys -- one of the former
3 workers, I said okay, when I think of a hot
4 cell I think of a totally isolated environment;
5 is that what we're talking about here? And he
6 said oh, yeah, yeah, that's what we're talking
7 about. So if they -- I still have to -- my
8 answer to you is I've got to check into that
9 and get back some more details for you, but
10 keep in mind that it was inside a hot cell,
11 so...

12 **MS. BEACH:** And then my second question is, in
13 your evaluation report on Table 6.64, PURECON -
14 - Pu records summary, 19 -- let me see, the
15 year 1965 had 300 -- or 3,632 records, 1966
16 only had 11, and then it jumps back up to 3,718
17 in 1967, and then again in 1991 there was only
18 one record. I was just wondering why that was.

19 **DR. ULSH:** Good question. I'm going to have to
20 give you the same answer there. I'll check
21 into that and get back to you.

22 **MS. BEACH:** Thank you.

23 **DR. ULSH:** Sure.

24 **DR. ZIEMER:** Is that on Table 6-6?

25 **MS. BEACH:** 6-4.

1 **DR. ZIEMER:** Oh, 6-4.

2 **MS. BEACH:** Page 39.

3 **DR. ZIEMER:** Mark?

4 **MR. GRIFFON:** Ask an easier question first.

5 **DR. ULSH:** That would be good.

6 **MR. GRIFFON:** On the cutoff, the February 28th,
7 '58, whatev-- '59 --

8 **DR. ULSH:** Yeah.

9 **MR. GRIFFON:** -- the cutoff when the cave was
10 deconned, you mentioned in your presentation
11 that the contam-- the R and SW building --
12 entire building had some contamination. I -- I
13 believe they probably D&D'd the cave itself,
14 but not the rest of the building, and yet
15 you're, you know, excluding the time from --
16 you know, you're cutting it off at that point.
17 What -- you know, how do you --

18 **DR. ULSH:** Right. Well, first of all, it
19 wasn't the entire building. It was several
20 areas of the building, so I wouldn't want to
21 speculate on what -- where there might not be
22 radiation. As I understand it, though, they
23 did do D&D -- they did clean up --

24 **MR. GRIFFON:** All the various areas?

25 **DR. ULSH:** Yeah. I would have to give you more

1 details, though, about, you know, what types of
2 sampling --

3 **MR. GRIFFON:** Right.

4 **DR. ULSH:** -- and characterization plans, that
5 was -- that's a bit more detailed that we went
6 into here.

7 **MR. GRIFFON:** Okay.

8 **DR. ZIEMER:** Brad Clawson.

9 **MR. CLAWSON:** I'm trying to understand, after
10 1959 what makes it so that now you think that
11 you can do the internal dose. What -- what has
12 changed in the process?

13 **DR. ULSH:** Well, the -- the cutoff date, Brad,
14 was the end of that particular project that we
15 found problematic, the radium, actinium,
16 thorium separations. That ended with the D&D
17 of the old cave, and that was completed in
18 February of '59. So they really weren't doing
19 much, with the possible exception of what Josie
20 just asked about, with this particular material
21 after that. And we have bioassay data for the
22 other programs -- you know, the polonium, the
23 plutonium, thorium -- we have bioassay data for
24 that that we think is sufficient to do dose
25 reconstruction.

1 **MR. CLAWSON:** So up to 1959, that -- that
2 incorporated the decon of the facility --

3 **DR. ULSH:** Yes.

4 **MR. CLAWSON:** -- and the hot cell that they
5 were working on and --

6 **DR. ULSH:** Well, now Josie mentioned the new
7 cave. Don't confuse that --

8 **MR. CLAWSON:** In --

9 **DR. ULSH:** -- with the old cave.

10 **MR. CLAWSON:** In 64.

11 **DR. ULSH:** Yeah. Those are two separate
12 facilities. There's the old cave, the radium
13 cave, where they did this radium, actinium,
14 thorium separation. Then they D&D'd that and
15 they actually abandoned that facility and they
16 established the new cave, and the new cave is
17 where they had the hot cell, and that's -- they
18 did some operations in there throughout the
19 later years, into the '60s and '70s, so those
20 are two separate places. They've very close
21 together, but they're separate rooms --
22 separate...

23 **MR. CLAWSON:** So when you're saying that it's
24 deconned, that facility is done away with or
25 was just cleaned up, it was just -- and still

1 sat there?

2 **DR. ULSH:** Well, it was cleaned up, but keep in
3 mind, Brad, this is the '50s, so --

4 **MR. CLAWSON:** Right.

5 **DR. ULSH:** -- their standards were a bit
6 different than the standards we might think of
7 when we D&D today.

8 **MR. CLAWSON:** Well --

9 **DR. ULSH:** But the -- there were no operations
10 going on in the old cave after that date --

11 **MR. CLAWSON:** I understand that, and -- and
12 dealing with thorium, so forth and everything
13 else like that, I guess kind of what I'm
14 wondering about is down the road in the -- the
15 D&D era when they got back into that facility,
16 were they -- were they monitoring for these
17 things better? See, the point I'm trying to
18 get is when they get in there and they start to
19 decon this and they've got what we call legacy
20 problems in there, we're digging up memories.
21 Okay?

22 **DR. ULSH:** Right.

23 **MR. CLAWSON:** And -- and are we going to be
24 able to monitor the people later on in their
25 date for this?

1 **DR. ULSH:** Well, in fact you raise a very good
2 question, and this is what I was going to go
3 into a little bit more detail on. I mentioned
4 to you the Price Anderson Act violations in the
5 '90s related to the bioassay during the D&D era
6 -- well, actually -- and Mark, now that I think
7 about it, this relates a little bit to your
8 question, perhaps -- a situation was brought to
9 our attention by a former worker that we
10 interviewed and discussed with several others
11 about a particular job that was done in the R
12 building. The R corridor 5, I believe, they
13 were D&D-ing it and they ran into --
14 unexpectedly, I guess -- actinium. And as I
15 understand it, this is one of the incidents
16 that led to the Price Anderson Act violation,
17 although it wasn't the only one. They took
18 bioassay samples on those folks, but they
19 didn't analyze them promptly. And so that kind
20 of piques my interest in terms of ability to do
21 a dose reconstruction. It -- it -- I would say
22 that that fits your description of a legacy
23 problem, yeah, absolutely. I think that's the
24 nature of the concerns that led to the Price
25 Anderson Act violations in the '90s, and I

1 think that certainly warrants further --
2 further scrutiny.

3 **DR. ZIEMER:** Thank you. Other comments or
4 questions from the Board? Okay.

5 **MR. GRIFFON:** I got -- this is changing the
6 topic a little bit, but on -- on page 13,
7 Brant, I think -- I think this -- well, I'll
8 ask if it was a typo, but you -- you mentioned
9 on your slide on page 13, I don't know if you
10 can find it, under 10 CFR 835 -- it started off
11 with a discussion of 835, monitoring would have
12 been required for potential exposures,
13 something like that. In the statement it said
14 NIOSH found no evidence that workers were
15 inappropriately denied external monitoring. I
16 think you said denied any -- denied external or
17 internal. Right?

18 **DR. ULSH:** You know, actually, Mark, I did that
19 -- that's not a typo.

20 **MR. GRIFFON:** Oh, okay. I just wasn't sure.

21 **DR. ULSH:** We didn't find the workers were
22 denied external monitoring, but this --

23 **MR. GRIFFON:** How about --

24 **DR. ULSH:** -- caveat that we're talking about -

25 -

1 **MR. GRIFFON:** -- how about internal -- okay,
2 okay.

3 **DR. ULSH:** -- this caveat that we're talking
4 about here, did they appropriately monitor the
5 D&D workers for the materials they might have
6 been exposed to, I've got some concerns.

7 **DR. ZIEMER:** Thank you. Okay. Now there were
8 actually originally two petitions, you
9 remember, petition --

10 **DR. ULSH:** Yes, 90 and --

11 **DR. ZIEMER:** -- 00090 and 00091.

12 **DR. ULSH:** Right.

13 **DR. ZIEMER:** [name redacted] is one of the
14 petitioners for 00090 and Judy Miller is the
15 lead petitioner for 00091, and we have [name
16 redacted] on the phone, Larry -- or is it --
17 yeah, I think it -- it's Larry who -- Russell,
18 and Larry, did you have a statement -- and let
19 me tell -- tell you that -- Larry, your
20 communication to the Board dated December 29th
21 has been distributed to the Board members. I
22 believe everybody got that. But did you have
23 some additional comments?

24 **MR. RUSSELL:** Yes, I'd like to make some brief
25 comments about this.

1 **DR. ZIEMER:** Thank you. Proceed.

2 **MR. RUSSELL:** Again, my name is Larry Russell.
3 I'm the [identifying information redacted], who
4 did file SEC 00090 petition, which was merged
5 with 91. I want to let the Board know we were
6 not able to attend this meeting of the Board
7 due to the location and the shortness of
8 notice, which we weren't really informed of the
9 meeting until December 21st, '07.

10 This petition was filed regarding her
11 employment at the Mound Lab. [name redacted]
12 was there from 19-- September 1965 through
13 April 2001. In 2005 [identifying information
14 redacted]. In a letter that we received dated
15 December 15th, 2007 from the U.S. Department of
16 Labor, District Cleveland Office, they have
17 recommended acceptance of her claim for
18 [identifying information redacted], and we're
19 still awaiting word of how they're going to
20 proceed on that. It's our understanding right
21 now that no decisions has been made in regard
22 to [identifying information redacted].

23 We have some concerns about the SEC petition
24 evaluation report which was dated December
25 21st. One I think that I heard a lot was

1 availability of employee health records, which
2 you know included X-rays, TLD readings, et
3 cetera. We would like to stress, though, that
4 the monitoring procedures of each of the
5 operating contractors varied dramatically, and
6 there were at least six different contractors
7 that [name redacted] worked under the time she
8 was at Mound. Many workers that worked there
9 asked to be monitored but, depending on the
10 contractor and where they worked, they were not
11 allowed to be monitored, which I find alarming.
12 When someone thinks they need to be monitored
13 and it's done -- and I'm sure it was done for
14 budgets -- reasons, we have a concern about the
15 MORE records system. A lot of people we talked
16 to said it was flawed by backlog and a lot of
17 records never really got inputted (sic). It
18 was designed poorly and most supervisors
19 considered it pretty worthless. And I'm again
20 quoting the people we've talked to.
21 I'm concerned, and [name redacted] is, about
22 the SEC report relying on interviews, but I did
23 hear today that there has been a big attempt to
24 go back and look at, you know, written
25 documentation, specific documents, and I'm glad

1 that they do have some kind of database to --
2 that they can look at some of these records.
3 But again I think the key thing is what about
4 the records who were not -- for the employees
5 who were not monitored during this process.
6 I also want to let you know that -- and you may
7 be aware of this -- anyone who retired from the
8 Mound, as part of their retirement, can
9 purchase health insurance benefits, which [name
10 redacted] did. But the health insurance policy
11 has a lifetime benefit of \$250,000.
12 [identifying information redacted]. We're
13 asking that the Board not accept the petition
14 evaluation report and ask for more detailed
15 information. I think it's essential the Board
16 have factual data. Interviews with former
17 Mound people I think are good, and I think that
18 effort is commendable that it was done, but
19 we're going to -- we're asking that the Board
20 table this issue and seek more information
21 before any final determination is made. And I
22 would -- on behalf of [name redacted], I would
23 like to thank you for the opportunity to
24 provide this input to you on this important
25 issue for not only her, but all Mound workers.

1 Thank you.

2 **DR. ZIEMER:** Okay, thank you very much, Mr.
3 Russell.

4 Now we'll hear from Judy Miller. Judy, we'd be
5 pleased to have your comments at this time.

6 **MS. MILLER:** Can I do this? Hello, my name is
7 Judy Miller and I am the daughter of Mary Ann
8 Miller, who worked at Mound from 1956 to 1983.
9 She couldn't be with us here today. She passed
10 away on December the 25th of '05, which was
11 quite unexpected.

12 But I would like to introduce you to my mom and
13 show you brief little snippets of her life and
14 her friends and her loved ones, and [name
15 redacted] has been kind enough to help me
16 technically, so if you would, please, just sort
17 of -- this is my mom and -- and this was just a
18 little bit of our lives together.

19 (Whereupon, a slide show was presented.)

20 Thank you for allowing me to share that with
21 you. I would like to just tell her story, if I
22 may.

23 I was born in 1949, and I moved to Miamisburg,
24 Ohio and we lived south of the Mound Plant next
25 to the river. And Mom went to work at the

1 Mound in 1956 and I went to Our Lady of Good
2 Hope in 1956. She was a very conscientious
3 worker and she received numerous awards for her
4 attendance, and she was an excellent mother and
5 she was a wonderful friend.
6 She became ill in the '60s, and her attendance
7 of course started falling off and she had
8 various forms of different illnesses. In 1970
9 she was diagnosed with leukemia. They didn't
10 give a specific type, but they just diagnosed
11 her with leukemia. She was also diagnosed with
12 COPD, which resulted in her retirement, her
13 disability retirement in 1983. She -- the
14 leukemia maintained itself and she developed
15 numerous illnesses and infections and in and
16 out of the hospital for the rest of her life.
17 She worked in B building, in the Lab. She
18 worked with [name redacted], who is also one of
19 the petitioners, and she was there in the --
20 [name redacted], who is also a petitioner, also
21 worked at the Mound. [name redacted] has been
22 diagnosed with breast cancer and has been
23 hopefully successfully treated.
24 My mother filed the EEOICP when it came into
25 law. She was denied. And at that point that's

1 when I became involved and I began helping her
2 with it. At that time her illness was really
3 starting to take its toll so I helped her with
4 it and we managed to get a specific diagnosis
5 of the leukemia, which is CML. And as I
6 understand now, that is -- the only reason that
7 you would have CML with the mutation of your
8 chromosomes is because of radiation exposure.
9 She was awarded her claim under the E portion
10 of EEOICPA. She was granted a minimum of -- a
11 minimum amount, because it wasn't a whole body
12 impairment. She received \$165,000, which of
13 course she did know that she received, and for
14 that I am very grateful.

15 The CML was denied again, and we appealed it
16 again, and I can't even begin to tell you how
17 many times. However, she -- that was -- that
18 was one of the causes of her death on Christmas
19 Day. She was 91 pounds. She was covered with
20 sores that would not heal. And as you can see,
21 she was a very beautiful woman, very full of
22 life. Although her illness did incapacitate
23 her in different ways, she still managed to --
24 to show us a wonderful life and to do the best
25 she could. And I am imploring you to recommend

1 that the Mound become a Special Exposure Cohort
2 because I feel very passionately that the Mound
3 contributed to her death. And in fact, one of
4 these days may contribute to mine.

5 As I stated, I lived south of the Mound Plant
6 in what was a little neighborhood called Komen*
7 Plat. And I have a water analysis from that
8 area which was done in 1991, and we had wells
9 for our water. And there was traces of
10 plutonium-238, and I have a hard time with
11 this, titrinium (sic), but there was also a
12 measurable amount in the water. We lived there
13 until 1959.

14 My father passed away with lung cancer. [name
15 redacted] has had numerous illnesses that were
16 -- have been unable to be diagnosed. The
17 doctors just don't know. I have my own set of
18 illnesses. And my friend [name redacted], who
19 was kind enough to come here with me, he -- his
20 family has also -- his parents didn't work
21 there, but they lived down the hill from Mound
22 and he has lost two very close family members
23 with illnesses that were not ordinary.

24 And there's numerous people in Miamisburg that
25 have been affected by the Mound. I know that

1 it was a -- it was a wonderful place to work.
2 When my mother and my aunts were there they
3 were very grateful to have that type of
4 position and were very proud to be there. But
5 the fact that it did cause their illness -- she
6 was a perfectly healthy, 26-year-old woman when
7 she went there, and all of her medical records
8 point to that. The Mound was in a very close
9 proximity to all of the residents. I feel that
10 they have destroyed my town. I no longer want
11 to go back there, for my own health and for my
12 own children's health. And I would again plead
13 with the Advisory Board to rectify this
14 atrociousness, and I -- that's what I believe that
15 it is. It was so incomprehensible that our
16 government could put that many people at risk
17 and not seemingly care for the damage that it
18 was done to the families and to the lives --
19 not only to the workers, but to the residents
20 and the people who lived there and loved the
21 town.

22 I'll -- I will close with the fact that I think
23 that NIOSH may have a very valuable piece in
24 this puzzle. However, I don't believe that
25 they have all of the information, nor do I

1 believe that they can complete the dose
2 reconstructions that would be favorable to the
3 claimants. And I would passionately plead with
4 the Advisory Board to recommend that the entire
5 facility give some relief to the workers and to
6 the survivors of that plant.

7 That's pretty much all I have to say, and thank
8 you for allowing me to speak on behalf of my
9 mom. And just one bright note, we do have a
10 new family member and she was born a few months
11 after my mother died, and she was named after
12 my mom, so we have [name redacted] to take
13 Mom's place. So again, thank you for your
14 time.

15 **DR. ZIEMER:** Okay, thank you very much. I
16 mentioned earlier we have a letter from Senator
17 Brown, and we're going to have that letter read
18 into the record. So Jason, if you'll come now
19 and, for the record, read the letter from
20 Senator Brown of Ohio.

21 **MR. BROEHM:** Yes, I'll do that. It's a letter
22 from Senator Sherrod Brown, United States
23 Senator from Ohio. Dear Dr. Ziemer, I write to
24 express my support for the Special Exposure
25 Cohort status number 0090 petition filed for

1 the former employees and their survivors of the
2 Mound Plant.

3 Workers at the Mound Plant in Miamisburg, Ohio
4 were involved with top secret defense research
5 that produced nuclear materials and technology.
6 The work often required handling poisonous and
7 radioactive materials, and as a result workers
8 were sometimes unknowingly exposed to dangerous
9 levels of toxins. The Energy Employees
10 Compensation Program was created to compensate
11 Energy workers and their survivors for the
12 illnesses that resulted from these exposures.
13 In September the Senate's Health, Education,
14 Labor, and Pensions Committee held a hearing on
15 the effectiveness of the EEOICP. Throughout
16 the hearing both claimants and program
17 administrators noted how the lack of available
18 information prevents full and accurate dose
19 reconstructions. This testimony was further
20 substantiated by a GAO report released shortly
21 after this hearing which cited "unavailable or
22 incomplete radiation monitoring records" as a
23 reason for the increased program costs.
24 Individual claimants are experiencing this same
25 lack of information, but do not have the

1 federal resources at their disposal to overcome
2 the obstacle.

3 The lack of available information is
4 particularly troublesome because it is the
5 claimants' responsibility to demonstrate
6 exposure levels and prove the relationship
7 between exposure and illness. The inability of
8 claimants to reconstruct exposure levels
9 because of incomplete, inaccurate and
10 sometimes classified information, coupled with
11 the obligation of claimants to adequately meet
12 the burden of proof, creates an unjust system
13 that defies the true purpose of the EEOICP.
14 It is my understanding that NIOSH is submitting
15 an SEC Petition Evaluation Report recommending
16 that SEC status be granted only to employees
17 that worked at Mound for a specific period of
18 time. I encourage the Advisory Board to extend
19 SEC status to all Mound workers, from 1949 to
20 present. The current administration of the
21 EEOICP does not allow for fair adjudication of
22 Mound dose reconstructions and granting SEC
23 status to all Mound workers will better adhere
24 to the true intentions of EEOICP.
25 I encourage the Advisory Board to make a prompt

1 decision in favor of granting full SEC status
2 to all of Mound's workers, past and present. I
3 think the Board for its attention to this
4 matter and its serious consideration of SEC
5 Petition Number 0090.

6 **DR. ZIEMER:** Thank you very much. Just earlier
7 today we were -- a letter was delivered to the
8 Board, a letter dated January 8th, from a
9 former Mound employee who I believe lives in
10 this area now. That is [name redacted]. He's
11 a retired engineer with 57 years experience.
12 Board members, we made copies of this and
13 distributed that so you -- you should have that
14 in your file as well. I don't know that we
15 need to read that into the record, but -- he
16 didn't ask that it be read but that it be made
17 available to the Board members so we have done
18 that as well. And basically he is also
19 speaking for approval of the SEC petition.
20 Okay, Board members, this recommendation from
21 NIOSH now is open for discussion. Dr. Melius.

22 **DR. MELIUS:** Refresh my memory, but I don't
23 believe we have a working group on Mound.

24 **DR. ZIEMER:** We do not have a working group on
25 Mound.

1 **DR. MELIUS:** Yeah, and I believe we have a site
2 profile review, though, done by SC&A some time
3 ago?

4 **DR. ZIEMER:** We do have a site profile review,
5 that's correct.

6 **DR. MELIUS:** Yeah, so I mean certainly re-- re--
7 - regardless of our actions on this particular
8 petition today, I would certainly think that
9 it's in order that we need to get a -- a group
10 together that can follow up on the SEC and deal
11 with the site profile, also, so --

12 **DR. ZIEMER:** There appear to be some open
13 issues on at least some of the time frames.
14 And I might add as an observation that, should
15 the Board decide to recommend approval of -- of
16 this action that NIOSH has recommended, that
17 does not preclude later actions on other parts
18 of the workgroup there at NIOSH. I think one
19 of the petitioners -- I think the -- Mr.
20 Russell I think it was that recommended that we
21 take no action at this time. I might point out
22 that taking action as NIOSH has recommended
23 would actually put at least part of the working
24 group into an SEC class. It would not preclude
25 action on other parts of that later. Did you

1 have additional quest-- okay. Other comments
2 or questions? Yes, Josie.

3 **MS. BEACH:** I just have one question on the '49
4 to '59 time frame. Who would be involved in
5 that class? Would it -- which group of
6 individuals?

7 **DR. WADE:** Brant is coming.

8 **DR. ULSH:** Josie, that would certainly be, you
9 know, the Board's prerogative to -- to
10 recommend as they see fit. But the NIOSH
11 recommendation is that that include everyone on
12 site during those two time periods.

13 **MS. BEACH:** Thank you.

14 **DR. ULSH:** Presuming they meet the other
15 requirements of the SEC -- you know, 250 days
16 and -- and all that.

17 **DR. MELIUS:** And what? What I'm trying to get
18 -- I'm just trying to pin down what is the
19 exact definition that you're recommending. Is
20 it what's in the report?

21 **DR. ULSH:** Yes, it's what's in the report.

22 **DR. MELIUS:** Oh, okay, okay.

23 **DR. ZIEMER:** As I understood the report, you
24 could not exclude anyone on the site during
25 that time period from having been exposed in

1 those facilities. Was that not correct? As I
2 understood what you --

3 **DR. ULSH:** Sorry, Dr. Ziemer, could you repeat
4 that?

5 **DR. ZIEMER:** Even though there were specific
6 individuals who were involved in this radium,
7 actinium, thorium work, as I understood the --
8 the evaluation, you were not able to exclude
9 other workers from having access to those areas
10 and therefore they -- all workers become
11 eligible --

12 **DR. ULSH:** That's correct.

13 **DR. ZIEMER:** -- if they were on the site during
14 that period. Is that correct?

15 **DR. ULSH:** That -- that's what we're
16 recommending.

17 **DR. ZIEMER:** Yes.

18 **DR. ULSH:** It has been pointed out to me just
19 now that our definition doesn't say anything
20 about the 250-day requirement or -- so we might
21 have to adjust that so that it's in the
22 standard format, you know, the 250 days and --

23 **DR. ZIEMER:** Well, I think the -- the issue of
24 -- of health endangerment included the 250 days
25 by -- in your discussion, at least, it was --

1 **DR. WADE:** Yeah, I think it's -- it'd be better
2 if you gave us those words precisely.

3 **DR. ZIEMER:** It may not have been there in that
4 definition, but it is in your discussion in
5 health endangerment. It is -- it is discussed
6 in the report --

7 **DR. ULSH:** Okay.

8 **DR. ZIEMER:** -- that that's your standard
9 measure if -- if you're --

10 **DR. ULSH:** Correct.

11 **DR. ZIEMER:** -- unable to reconstruct dose, the
12 presence for 250 days --

13 **DR. WADE:** I think it would serve the Board for
14 you to give the Board precise wording of what
15 you --

16 **DR. ZIEMER:** Yeah, Wanda Munn.

17 **MS. MUNN:** Just puzzling a little bit over the
18 categories that a -- a category that is not
19 specifically called out here, which is '49
20 through '59, it -- it appears, just from an
21 observation here, that the second item on the
22 summary, the '49 through 1990, internal from
23 all others, would -- really should say 1959
24 through 1990, as is the case from the last item
25 as well since -- if I understood what just was

1 said -- everybody on site from '49 through '59
2 -- we can't identify whether they were exposed
3 --

4 **DR. ZIEMER:** Yes, but keep in mind this goes to
5 the question of the non-compensable cancers
6 under the SEC, the question of can you
7 reconstruct other doses in the '49 to '59 time
8 period, and NIOSH is saying yes, we can do
9 others so that if a person has one of the other
10 cancers that's not compensable under the SEC --
11 'cause the SEC does not include all the cancers
12 -- then they could go back for a dose
13 reconstruction -- a partial dose reconstruction
14 for the other nuclides.

15 **MS. MUNN:** But that's the confusion in my mind.
16 How can they exclude the potential of radium,
17 actinium and thorium from the exposure that
18 those individuals would have received?

19 **DR. WADE:** I think NIOSH is saying that it
20 cannot reconstruct dose for those exposures.

21 **MS. MUNN:** Exactly. And since we cannot
22 identify who were involved in those exposures,
23 then it's diffi-- I'm trying to understand how
24 anyone then, SEC or -- SEC-covered cancers or
25 not, can be appropriately viewed from '49

1 through '59 if you can't say they were or were
2 not exposed to these three.

3 **DR. WADE:** The word "appropriate" we need to
4 talk about. NIOSH is saying that it cannot
5 reconstruct dose for those exposures from '49
6 to '59. It is saying it can reconstruct
7 internal dose for other exposures. The concern
8 now are those individuals potentially
9 disenfranchised by the SEC who have non-covered
10 cancers. NIOSH would like to attempt a partial
11 dose reconstruction, which would include
12 external dose and internal dose from those
13 radionuclides for which NIOSH could reconstruct
14 internal dose, in the hopes of reaching a
15 compensation decision.

16 **DR. ZIEMER:** And I think we have the same
17 dilemma in every SEC, Wanda, because in essence
18 if someone has a non-compensable cancer under
19 the SEC -- has one of the other cancers and
20 comes for dose reconstruction, you have no way
21 of giving them credit for exposures to these
22 three nuclides. They -- they don't, in
23 essence, get credit for that because we can't
24 reconstruct dose. So the question then is
25 well, did they get enough dose from other

1 things to be compensable now. And I hope all -
2 - all petitioners realize that there's a trade-
3 off between the SECs. On the SECs not as many
4 cancers are covered, so this is an attempt to
5 keep the door open, for those whose cancers
6 aren't covered under an SEC, to have an
7 alternate sort of backup that says yes, we can
8 still reconstruct other doses so we will try to
9 do that for you if you have a -- one of the
10 other cancers that's not on -- on the -- on the
11 list. But I think we have the same situation
12 for every SEC, as I -- and maybe -- maybe Larry
13 or Jim Neton can --

14 **MS. MUNN:** Well, I --

15 **DR. ZIEMER:** -- clarify. Did I explain that
16 correctly?

17 **MS. MUNN:** I believe what is really underneath
18 those words is an individual whose probability
19 of causation can be shown to be more than 50
20 percent, without taking into account the
21 radium, actinium and thorium --

22 **DR. ZIEMER:** Exactly, that's correct.

23 **MS. MUNN:** -- would in fact --

24 **DR. ZIEMER:** That's correct.

25 **MS. MUNN:** -- be covered --

1 if one wants to dig into Mound, there's a lot
2 of material there that we need to look at. And
3 it would seem to the Chair it would be
4 appropriate to, in a sense, keep the door open
5 and allow us to look at this report in more
6 detail. You may wish to even delay action on
7 the -- on the subset, but if you're -- if
8 you're comfortable with that part of it today,
9 if you think NIOSH has made the case that they
10 can't reconstruct dose -- I think the Board
11 always has to look at both sides of this; do we
12 accept outright that they really can't do it,
13 have they -- you know, have they dug into all
14 the records and can they really not do that,
15 that's the other side of the question, so --
16 okay.

17 Jim, you have another comment, and --

18 **DR. MELIUS:** Yeah --

19 **DR. ZIEMER:** -- then Josie.

20 **DR. MELIUS:** -- one -- number one, I mean I'm
21 satisfied that they can't do it. And given --
22 you -- and I'm -- I am a little bit
23 uncomfortable with the fact that we -- we
24 haven't had a workgroup established and we just
25 got this report and it is a large facility and

1 -- and fairly complicated and a lot of issues
2 to go over. However, given that, you know,
3 this is a -- I think a relatively
4 straightforward class definition, we're not
5 worried about trying to figure out which
6 buildings and -- and things like that as much,
7 I -- I'm comfortable with going ahead with, you
8 know, granting the class for the -- that one
9 early group and then, as you said, Dr. Ziemer,
10 let's establish a workgroup and -- and pursue
11 the -- the other issues within the report and
12 on -- on the site.

13 **DR. WADE:** Would it be the Board's pleasure to
14 wait for a clarification on the wording from
15 NIOSH, or to vote based upon what it has now?

16 **DR. MELIUS:** What I was going to propose was
17 sort of a sense of the Board that we go ahead.
18 We'll get a definition and then I can draft up
19 a letter and --

20 **DR. ZIEMER:** Let me hold off and see if there's
21 --

22 **DR. MELIUS:** Yeah.

23 **DR. ZIEMER:** -- additional comments here and
24 then we'll op-- we'll ask for a specific
25 motion. Josie?

1 **MS. BEACH:** I just have -- from my question for
2 Brant earlier, the actinium in 1964, I guess I
3 want it clarified, would -- could -- could
4 there have been exposure during that time
5 period, and I wanted that answered first.

6 **DR. ZIEMER:** Before we act on this.

7 **MS. BEACH:** If it feels like there's an issue
8 there.

9 **DR. ZIEMER:** Well, I guess my question would be
10 even if there were, would that affect this
11 early period? I mean the early period is --

12 **MS. BEACH:** I guess I was thinking maybe that
13 should extend it, but possib-- you're probably
14 right. That's isolated --

15 **DR. ZIEMER:** It could always be extended.

16 **MS. BEACH:** But it's just isolated for '64, so
17 you're -- you're probably right, it wouldn't.

18 **DR. WADE:** I think the workgroup could look
19 into whether it should be extended or not.

20 **MS. BEACH:** Okay.

21 **DR. ZIEMER:** Mr. Presley.

22 **MR. PRESLEY:** I have -- well, Wanda had hers up
23 before I did --

24 **MS. MUNN:** No, go ahead, Bob.

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

1 Jim 100 percent. I don't think that -- that
2 holding off on this -- voting on this SEC --
3 portion of this SEC (unintelligible) will hurt
4 one thing and it might get some of these cases
5 adjudicated down the road, so I would like to
6 see this Board vote on the petition, or the
7 part -- part of the petition.

8 **DR. ZIEMER:** Wanda?

9 **MS. MUNN:** I'm prepared to make a motion that
10 we go forward with the recommendation for the
11 years 1949 through '59 as SEC for the entire
12 site.

13 **DR. ZIEMER:** Okay, I'll recognize that as a
14 motion, with the caveat that I will ask for a
15 follow-up motion after the voting is completed
16 for the next steps on the rest of the petition.
17 And the other caveat will be that -- that the
18 motion, if it is passed, will be put in formal,
19 structured wording that will be of the type
20 that we forward to the Secretary of Health and
21 Human Services and -- and that that formal
22 wording will be available to the Board on Fri--
23 I think Thursday, perhaps. I think everybody's
24 going to be gone Friday.

25 **DR. WADE:** Oh, I'm sorry, we -- I'm missing a

1 day -- it's the last day of the meeting.

2 **DR. MELIUS:** I guess then we'll still be here,
3 we'll --

4 **DR. WADE:** Thursday, sorry.

5 **DR. ZIEMER:** Yeah.

6 **MS. MUNN:** That language of course to
7 incorporate --

8 **DR. ZIEMER:** Right.

9 **MS. MUNN:** -- the necessary caveats that were
10 mentioned --

11 **DR. ZIEMER:** Okay, so we have the motion and
12 the second. Is there further discussion?
13 The motion then would be to accept NIOSH's
14 recommendation that the early group -- seconded
15 by Presley -- the early group, '49 to '59, as
16 described in the NIOSH evaluation report, be
17 granted Special Exposure Cohort status, or be
18 named as a class in the Special Exposure Cohort
19 -- and this -- and again I point out that this
20 does not preclude later action on the rest of
21 the time period, so -- but that is the motion
22 right at the moment. Is there discussion on
23 that?

24 And again, that includes basically all
25 buildings and all workers, even though it looks

1 restricted for those three nuclides, the actual
2 definition includes all buildings, all workers
3 at that site for that time period.

4 **MR. PRESLEY:** Put that in the motion.

5 **DR. ZIEMER:** That will be in there. And there
6 will also be the 250-day requirement as well.
7 Board members, are you ready to vote or...

8 **DR. ROESSLER:** Paul, this is Gen Roessler.

9 **MR. PRESLEY:** That's Gen.

10 **DR. ZIEMER:** Gen Roessler, are you on the line?

11 **DR. ROESSLER:** I'm on the line, I just wanted
12 to let you know I'm here and I would like to
13 vote when the time comes.

14 **DR. ZIEMER:** Okay, we certainly want you to
15 vote, Dr. Roessler. Also the courtesy -- Mr.
16 Russell, if you're still on the line, you had
17 recommended that we not take any action. You
18 understand that this action would not preclude
19 action on the rest of the petition but would
20 give the early group a kind of head start, as
21 it were, in being recognized as part of the
22 SEC.

23 **MR. RUSSELL:** Yes, I'm in favor of that very
24 much. I didn't mean to not -- prevent that
25 from going through 'cause I think that should

1 go through.

2 DR. ZIEMER: Okay.

3 MR. RUSSELL: Thank you.

4 DR. ZIEMER: Any other comments or questions?

5 (No responses)

6 If not, we'll take a roll call vote.

7 DR. WADE: Brad Clawson?

8 MR. CLAWSON: Yes.

9 DR. WADE: Wanda Munn?

10 MS. MUNN: Yes.

11 DR. WADE: Jim Melius?

12 DR. MELIUS: Yes.

13 DR. WADE: John Poston?

14 DR. POSTON: Yes.

15 DR. WADE: James Lockey?

16 DR. LOCKEY: Yes.

17 DR. WADE: Phillip Schofield?

18 MR. SCHOFIELD: Yes.

19 DR. WADE: Josie Beach?

20 MS. BEACH: Yes.

21 DR. WADE: Robert Presley?

22 MR. PRESLEY: Yes.

23 DR. WADE: Mark Griffon?

24 MR. GRIFFON: Yes.

25 DR. WADE: Gen Roessler?

1 (No responses)

2 Gen Roessler?

3 (No responses)

4 Gen, can you hear me?

5 (No responses)

6 **UNIDENTIFIED:** (Unintelligible)

7 **DR. WADE:** Okay. Gen, can you hear me?

8 **DR. ROESSLER:** I can barely hear you. Is that
9 Lew?

10 **DR. WADE:** Yes, would you like -- we're voting.
11 We're doing a roll call on the motion that
12 would recommend adding a class, '49 to '59, of
13 all workers at Mound. Would you like to have
14 your vote recorded?

15 **DR. ROESSLER:** Yes, I -- I vote for the motion.

16 **DR. WADE:** Okay. Dr. Ziemer, would you like
17 your vote --

18 **DR. ZIEMER:** Yes.

19 **DR. WADE:** -- recorded? So my count is that
20 vote is 11 to zero in favor, one member not at
21 the table.

22 **DR. ZIEMER:** Thank you very much. The motion
23 carries. We will have the formal wording
24 available for the Board on Thursday. That will
25 be the wording that goes to the Secretary. The

1 Chair will ask Dr. Melius, who has the -- the
2 template for SECs in his computer, if he would
3 mind preparing that for us.

4 **DR. MELIUS:** Wanda tried to steal it but --

5 **MS. MUNN:** Yes, I tried.

6 **DR. MELIUS:** -- I got it back.

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

8 **DR. WADE:** Dr. Melius is -- has another motion.

9 **DR. ZIEMER:** Okay, a follow-up motion.

10 **DR. MELIUS:** Yes, I'd also move that the Board
11 establish a workgroup to oversee the review of
12 the -- this petition evaluation, as well as try
13 to resolve issues related to the site profile
14 review, and that we also enable SC&A to work on
15 issues related to the Mound S-- SEC evaluation
16 report.

17 **DR. ZIEMER:** Okay, you've heard the motion. Is
18 there a second?

19 **MS. BEACH:** I second.

20 **DR. ZIEMER:** And seconded. Discussion? I want
21 to ask Lew a question. That motion appears to
22 include a tasking for the contractor. Can we
23 include that in this motion or --

24 **DR. WADE:** Yes, we can, it --

25 **DR. ZIEMER:** -- do we have to do that

1 separately.

2 **DR. WADE:** No, I think we can include it, and
3 the contract for this year has open space --

4 **DR. ZIEMER:** Right.

5 **DR. WADE:** -- for additional SEC --

6 **DR. ZIEMER:** Right.

7 **DR. WADE:** -- reviews.

8 **DR. ZIEMER:** Okay. Did you have a comment,
9 Josie, on this? No. Okay.

10 **MS. BEACH:** I'd like to volunteer for --

11 **DR. ZIEMER:** Well, that's the next step. The
12 Board would like to get the names of
13 individuals who want to be considered for this
14 workgroup. Okay, Josie Beach -- we may -- if
15 we get too many, I'll make the final selection,
16 but I want to see who's interested. Okay, Phil
17 Schofield is interested, Josie is interested,
18 Robert Presley is interested.

19 **MR. GRIFFON:** I was waiting to see who else --
20 I'm interested, but I was waiting to see --

21 **DR. WADE:** Brad.

22 **DR. ZIEMER:** Brad Clawson is interested.
23 You're -- you're interested?

24 **MR. GRIFFON:** Yeah.

25 **DR. ZIEMER:** Mark is interested -- we have a

1 lot of interested people.

2 **MS. MUNN:** Yeah, I'm -- only if --

3 **MR. GRIFFON:** I'd be willing to let people who
4 are not on --

5 **MS. MUNN:** Yeah.

6 **MR. CLAWSON:** No, I -- I'd be interested in
7 letting Josie Beach chair.

8 **MS. BEACH:** Why is that, Brad?

9 **DR. WADE:** 'Cause it's not him.

10 **DR. ZIEMER:** Okay --

11 **DR. MELIUS:** How about Gen? She's not here.

12 **DR. ZIEMER:** We have -- we have five
13 individuals who've volunteered. The Chair will
14 announce a final committee Thursday and the
15 Chair -- I need to mull this over a bit.

16 **MR. CLAWSON:** I've got a candy bar on Josie's -
17 -

18 **DR. ZIEMER:** Yeah, that's what I was looking
19 for. Thank you. We have -- we have
20 individuals, and the motion --

21 **DR. WADE:** Has yet to be voted on.

22 **DR. ZIEMER:** -- has yet to be voted on. That
23 was a side comment that, if the motion passes,
24 we have a plethora of volunteers. Actually the
25 Chair was interested, too, but I'd like to get

1 others to do the work when possible.
2 All those who favor this motion, say aye.

3 (Affirmative responses)

4 Gen Roessler?

5 **DR. ROESSLER:** Aye.

6 **DR. ZIEMER:** Any opposed?

7 (No responses)

8 Any abstentions?

9 (No responses)

10 The motion carries.

11 **DR. WADE:** It carries by a vote of 11 to zero,
12 with one member not at the table.

13 **DR. ZIEMER:** That's correct.

14 **LAWRENCE LIVERMORE NATIONAL LABORATORY SEC PETITION**

15 **DR. ZIEMER:** Okay, we're doing great. We have
16 another SEC petition that may be less complex.
17 It's the Lawrence Livermore petition. Dr.
18 Glover is -- is Dr. Glover going to make the
19 presentation?

20 **DR. WADE:** Dr. Glover is approaching the
21 podium.

22 **DR. ZIEMER:** Sam Glover is going to make the
23 presentation. Do we have any petitioners --

24 **DR. WADE:** We have a conflicted member who is -

25 -

1 DR. ZIEMER: Conflicted member --

2 DR. WADE: -- Dr. Poston is --

3 DR. ZIEMER: -- Dr. Poston.

4 DR. WADE: -- leaving the table and --

5 DR. ZIEMER: We'll trade Poston for Gibson,
6 Gibson back to the table. Do we have any
7 others conflicted?

8 (No responses)

9 Okay, for Lawrence Livermore, the petitioner
10 will be available I understand by -- by phone.
11 It's Raili Glenn -- is it Raili?

12 DR. WADE: Yes.

13 DR. ZIEMER: Raili Glenn, are you on the line?

14 MS. GLENN: Yes, I am.

15 DR. WADE: Did you -- could you repeat yes,
16 please?

17 MS. GLENN: Yes, I am on the line.

18 DR. ZIEMER: Oh, very good. Thank you. Raili,
19 after this presentation you'll have the
20 opportunity to comment if you so wish.

21 MS. GLENN: Yes, I'd like to.

22 DR. ZIEMER: Okay. Dr. Glover, you may
23 proceed.

24 DR. GLOVER: Thank you very much. Can you hear
25 me now?

1 **MS. MUNN:** Yes.

2 **DR. GLOVER:** Yes? All right. So I'm going to
3 present the Lawrence Livermore National
4 Laboratory Special Exposure Cohort petition. I
5 apologize, I left off the 0092 since...
6 Unlike the petition by Dr. Ulsh, this is an
7 83.14. It is generated by -- submitted by an
8 EEOICPA claimant whose dose reconstruction
9 could not be completed by NIOSH due to lack of
10 sufficient dosimetry information. This
11 claimant was employed at Livermore during the
12 DOE operational period as an experimental
13 physicist and is -- NIOSH's determination that
14 it -- NIOSH's determination that it is unable
15 to complete a dose reconstruction under these
16 circumstances is reason to -- for an SEC
17 class...
18 I will say any problems associated with this I
19 will blame on Brant for breaking the computer
20 ahead of me, so this is...
21 So a little bit of background, learn some
22 things associated with this. Lawrence
23 Livermore was actually a Navy base from 1942 to
24 1950, at which time -- in 1950 it was occupied
25 by the Department of Energy, still is part of a

1 -- the Navy base. In 1951 the property was
2 actually given to the Department of Energy, and
3 so you see that our period starts before the
4 official date of -- what the -- Livermore is
5 des-- has -- typically described as being
6 Lawrence Livermore. It was previously known as
7 the University of California Radiation
8 Laboratory at Livermore, and later as the
9 Lawrence Livermore -- the Lawrence Radiation
10 Laboratory at Livermore.
11 It consists of two sites -- sorry about the --
12 the decision of the scale, but you have the
13 main laboratory site, which is located in
14 Livermore, California; and we also have the
15 Explosives Test Site locat-- no -- located near
16 Tracey, California, previously known as Site
17 300. And I don't have a laser pointer so I --
18 I can't talk with my hands.
19 All right. Radiological operations in -- the
20 well-storied events were it was a -- the sister
21 lab of a -- of Los Alamos, with its original
22 mission to develop thermonuclear weapons.
23 Since 1957 diversified activities included
24 nuclear propulsion, fusion research, atomic
25 vapor laser isotope separation -- the AVLIS

1 program, and charged particle beam and laser
2 research.

3 Of course when you develop nuclear weapons
4 where -- at the Nevada Test Site, it requires
5 extensive testing to validate your codes and
6 your understanding of those. Lawrence
7 Livermore conducted numerous tests at the
8 Pacific Proving Grounds, Nevada Test Site and
9 Amchitka, Alaska. This graph kind of provide
10 you some kind of ability to look at the above-
11 ground and underground tests. Associated with
12 this type of testing is the chemistry
13 associated with those tests. They come back to
14 the facility to be evaluated.

15 Other testing included off-site -- on-site
16 nuclear weapons testing with non-fissile
17 materials. That would be using -- at the Site
18 300. These occurred during periods of
19 moratorium, and also in support of research
20 activities. These mock tests included depleted
21 uranium, thorium, and also other radioactive
22 materials. Since 1969 only natural uranium,
23 depleted uranium and natural thorium were
24 allowed for testing with high explosives.
25 Weapons test materials, these are known as shot

1 samples, returned from the test sites for
2 analysis. Wide range of debris was collected
3 and analyzed. It was handled at many of the
4 facilities at the site. These highly
5 radioactive samples contained weapon-induced
6 fission and activation products associated with
7 the weapon itself, and also the surrounding
8 ground materials and other -- we'll call them
9 thermometer materials that you may put into a -
10 - a weapon to evaluate its nuclear explosion
11 properties, plutonium, uranium and higher order
12 actinides.

13 Other radiological activities with activation
14 products and mixed fission products include a
15 reactor facility from 1957 to 1980. They had a
16 pool-type reactor, the main Livermore site.
17 '57 Livermore initiated nuclear propulsion
18 work, which is reactor based. They linear
19 accelerators and cyclotrons, they had fuel
20 testing, biomedical research, and also of
21 course the waste disposal associated with all
22 those activities.

23 Sorry for the very busy table, but the
24 buildings known to be involved with fission and
25 activation products -- processes include an

1 extensive list here. We have a number -- I'm
2 not going to read them, of course. You have
3 the chemistry, nuclear and radiochemical
4 chemistry analysis tests, accelerator studies,
5 beam studies, biomedical studies, waste
6 operations, linear accelerators, radiographs,
7 the Plowshare program at the 300 areas -- an
8 extensive list of facilities at which
9 radiological operations occurred.

10 We'll say that the predominant documented
11 radionuclides over this time frame was
12 plutonium, uranium, tritium. Fission and
13 activation products were at the site in the
14 shot samples, fuel fabrication, weapons
15 research, reactor, accelerator and cyclotron
16 activities, and extensive research in a variety
17 of applications.

18 The *in vitro* monitoring data that they support
19 -- or -- dose reconstruction with, for *in vitro*
20 they have a database known as MAPPER,
21 maintaining and preparing executive reports
22 database. For uranium there are over 16,000
23 results from 1958 to 1996; plutonium, around
24 7,700 results beginning in 1957 through 1996;
25 other transuranics, we have 312 results from

1 '64 to '96. There were over 5,000 gross alpha
2 results from 1956 to 1996. For gross
3 beta/gamma we do have over 4,000 results, and
4 only 325 before 1974.

5 The *in vivo* data is not contained in
6 Livermore's MAPPER database. We did actually
7 go and retrieve all the logbooks associated
8 with the whole body counter. Approximately 50
9 to 200 *in vivo* counts were performed each year,
10 beginning in 1965. However, the whole body
11 counter was primarily in a state of research
12 activities prior to 1974.

13 We did obtain workplace air data back all the
14 way to 1953 for many of the buildings,
15 including Site 300. Most of these results were
16 total or net alpha and beta activity. Some re-
17 - some results included the actual element that
18 was analyzed. There was some mixed fission
19 product air monitor-- fixed -- fission product
20 air monitoring data from '59 to '67, and there
21 was also air mon-- environmental data.

22 However, these results cannot really be tied to
23 the breathing zone type samples we need to look
24 at worker exposures.

25 Starting in 1961 the environmental data --

1 Livermore had a air monitoring data at two site
2 perimeter stations and nine stations beyond the
3 site boundary. In 1971 Livermore established a
4 network of permanent outdoor stations to
5 evaluate the radiological levels from
6 plutonium-239, 240, uranium-235 and 238, and
7 also gross alpha and beta.

8 As of July 23rd, 2007 NIOSH had access to 200
9 and -- 617 claimants; 88 percent of those had
10 external data, 53 percent of those cases had
11 internal data. However, only -- less than five
12 percent of those included data for fission
13 products.

14 We have developed models for coworker, using
15 the MAPPER bioassay data. Uranium, starting in
16 '58 -- I did miss -- there's a plutonium
17 dataset -- mixed fission products beginning in
18 1974. These can be used to reconstruct dose
19 during those time periods for all Livermore
20 workers at all Livermore locations.

21 So with that, NIOSH proposes that for the
22 feasibility of internal dose reconstruction,
23 based on the minimal bioassay data for the
24 period prior to 1973, mixed fission and
25 activation products, NIOSH has concluded that

1 dose reconstruction is not feasible for workers
2 who would -- who were or should have been
3 monitored for mixed fission and activation
4 products from 1950 through 1973.
5 Obviously the health endangerment determination
6 is required. The evidence reviewed in this
7 evaluation indicates that some workers in the
8 class may have accumulated chronic radiation
9 exposures through unmonitored exposure to
10 fission products. Lawrence Livermore National
11 Lab generated or processed unknown quantities
12 of mixed fission products during the proposed
13 class period as part of the work associated --
14 conducted for the Department of Energy.
15 Consequently, NIOSH is specifying that health
16 may have been endangered for those workers
17 covered by this evaluation who were employed
18 for a number of work days aggregating at least
19 250 work days within the parameters established
20 for this class, or in combination with work
21 days within the parameters established for one
22 or more other classes of employees in the SEC.
23 Feasibility of external dose reconstruction --
24 I do want to mention -- versus an 83.13, which
25 Dr. Ulsh -- before this is an 83.14. We don't

1 try to say everything we possibly can do. It's
2 a little more limited to what we can't do.
3 However, when we look at the external doses, we
4 do find that they're extensive and sufficient
5 for external dose reconstruction.

6 So our recommendation for the period January 1,
7 1950 through December 31st, 1973, NIOSH finds
8 that radiation doses cannot be reconstructed
9 for compensation purposes.

10 The proposed class definition is all employees
11 of the Department of Energy, its predecessor
12 agencies and Department of Energy contractors
13 or subcontractors who were monitored, or should
14 have been monitored, for internal radia--
15 internal exposure to mixed fission and/or
16 activation prod-- radionuclides while working
17 at the Lawrence Livermore National Laboratory
18 for a number of work days aggregating at least
19 250 work days from January 1, 1950 through
20 December 31st, 1973, or in combination with
21 work days within the parameters established for
22 one or more other classes of employees in the
23 SEC.

24 Additional information regarding the proposed
25 class -- while NIOSH has access to

1 documentation that describes some of the
2 activities and radionuclides specific to
3 certain buildings, NIOSH does not have
4 sufficient data to document the quantities and
5 types of most fission products and activation
6 products. NIOSH also does not have sufficient
7 information to rule out the use of fission and
8 activation products in other buildings where
9 radioactive materials were handled or stored.
10 However, NIOSH has no indication that exposures
11 to mixed fission products and activation
12 products would have been a concern in
13 administrative areas outside of radiological
14 areas; e.g., cafeterias, libraries, and office
15 areas outside of radiologic-- radiological
16 areas.
17 Additional information for the Board may be
18 found at the "Document Review\AB Document
19 Review\LLNL" directory. So be happy to take
20 any questions.

21 **DR. ZIEMER:** Sam, could you clarify then, under
22 this class definition what is the -- what would
23 be the status, for example, of cafeteria
24 workers or workers in the non-radiological
25 areas? Are you assuming they have or had no

1 access to radiological areas?

2 **DR. GLOVER:** For the -- we --

3 **DR. ZIEMER:** For the non-radiolo--

4 **DR. GLOVER:** We don't make the determination
5 where they work. However, if someone only
6 worked in those facilities, we -- we're not
7 asking that that be designated as part of the
8 SEC.

9 **DR. ZIEMER:** It wasn't clear to me whether you
10 have the ability to -- to determine whether or
11 not they were -- those areas were accessible to
12 them. Is that -- would that be done on an
13 individual case basis? For example --

14 **DR. GLOVER:** It --

15 **DR. ZIEMER:** I'm trying to determine in my --
16 in your description whether this covers
17 everybody on site or only people assigned to
18 radiological areas.

19 **DR. GLOVER:** We're saying that it -- if it --
20 for folks who worked in those areas -- the
21 Department of Labor has to make the
22 determination if they can determine -- this is
23 part of our --

24 **DR. ZIEMER:** Whether -- whether in fact that's
25 -- okay.

1 **DR. GLOVER:** -- this is part of our discussion
2 with the Department --

3 **DR. ZIEMER:** Okay.

4 **DR. GLOVER:** -- of Labor.

5 **DR. ZIEMER:** Okay.

6 **DR. GLOVER:** In the class.

7 **DR. ZIEMER:** So they have to -- they have to
8 determine accessibility to those radiological
9 areas, so --

10 **DR. GLOVER:** Yes.

11 **DR. ZIEMER:** Yeah, I gotcha. Wanda Munn,
12 question?

13 **MS. MUNN:** Well, another clarifying question,
14 the same lines, Dr. Glover. Can we assume then
15 that the list of buildings that you showed us
16 in your presentation is essentially the covered
17 areas for which this class would be approved?

18 **DR. GLOVER:** The -- those facilities were the
19 facilities that were -- that were -- that had
20 radiologic-- radioactive materials, so...

21 **MS. MUNN:** So they would be the site that would
22 be covered for this Special Exposure Cohort
23 that we're proposing.

24 **DR. GLOVER:** Yes.

25 **MS. MUNN:** Individuals who had --

1 **DR. GLOVER:** Essentially.

2 **MS. MUNN:** -- access to -- who worked in or had
3 access to those facilities. Is that the proper
4 terminology?

5 **DR. GLOVER:** I think in our -- in our
6 evaluation we -- we said that spe-- for places
7 that are specifically outside of tho-- of a
8 radiological area, if a cafeteria was outside
9 and that's the only place a person would have
10 worked, then they would not necessarily be
11 included. And so I see how the specific...

12 **DR. ZIEMER:** Well, you had a table showing --

13 **DR. GLOVER:** We had a table essentially that --

14 **DR. ZIEMER:** Wanda I think is asking does that
15 table encompass this cohort in -- or this class
16 in terms of the description. In other words --

17 **DR. GLOVER:** Let's go ahead and flip back to
18 the definition --

19 **DR. ZIEMER:** -- Labor would have to determine
20 that the person had access to these buildings.
21 Is that what we're saying?

22 **DR. GLOVER:** Essentially, yes.

23 **MR. GRIFFON:** Monitored or should have been
24 monitored.

25 **DR. GLOVER:** Right.

1 **MS. MUNN:** Thank you.

2 **DR. ZIEMER:** Dr. Melius and then Dr. -- Mr.
3 Clawson -- Larry --

4 **MR. ELLIOTT:** Well, I think it's more than this
5 list. Am I correct, it's mo-- Jim and I both
6 think it's more than this list. It -- it
7 doesn't -- our evaluation and recommendation
8 for the class would not include people who
9 worked in cafeteria or library or were strictly
10 clerical, but we're not confident that this
11 list is the total list.

12 **DR. ZIEMER:** Oh, okay.

13 **MR. ELLIOTT:** Okay?

14 **DR. ZIEMER:** This may not be --

15 **MR. ELLIOTT:** And that's something we're going
16 to have -- That's something we're going to have
17 to work out with DOL on, I think.

18 **DR. ZIEMER:** Okay. It's at least this list,
19 and if you find that --

20 **MR. ELLIOTT:** It's at least this list, probably
21 more.

22 **DR. ZIEMER:** Okay. Dr. Mel-- or -- yeah, Dr.
23 Melius and then Mr. Clawson.

24 **DR. MELIUS:** Yeah, I'm -- two areas of
25 questions. One is -- my understanding from

1 reading your evaluation report is that you --
2 you've got a lot of monitoring data for the
3 site. You don't have a lot for mixed fission
4 products, but you have a lot in other areas,
5 but it's a very complicated site in terms of a
6 lot of different exposures and you're not
7 really able to sort of reconstruct what people
8 were doing during various time periods that
9 they were being monitored or not being
10 monitored. Is -- is that -- I mean is that the
11 sense -- I mean that -- that -- the reason this
12 is an SEC is because it's such a complicated
13 work environment and you have, you know, some
14 data but not enough to really be able to fully
15 characterize that work environment.

16 **DR. GLOVER:** It's -- exactly, similar to
17 Livermore -- to Los Alamos, you have a --

18 **DR. MELIUS:** Yeah, yeah --

19 **DR. GLOVER:** -- very complicated environment,
20 and I would speak to that -- this class
21 definition -- I was overly -- we -- I was -- to
22 caution on the -- the table, that -- that where
23 we know that they have -- I think we're asking
24 for a definition that -- if Department of Labor
25 establishes that the person only worked in a

1 non-radiological area, they could be excluded.
2 However, we're not trying to say that this is
3 only the specific areas that's --

4 **DR. ZIEMER:** Jim Neton (unintelligible) clarify
5 --

6 **DR. NETON:** Sam, could you -- could you maybe
7 switch to that last slide that said additional
8 information, I think. That -- that tells the
9 story.

10 **DR. GLOVER:** Let's see --

11 **DR. NETON:** Additional information, I think
12 this sort of tells the -- the first paragraph
13 speaks to that we don't have sufficient
14 information to say where these things really
15 were. So in a sense, the table is the minimum
16 buildings, but it doesn't preclude other
17 buildings from being added, nor other people
18 who entered those other radiological areas. So
19 in a sense it's kind of open and really is --
20 is up to the Department of Labor to
21 characterize, in some ways, you know, who was
22 in radiological areas.

23 The second bullet, though, speaks to we have no
24 indication that anyone who solely worked in
25 administrative areas had potential exposure to

1 fission products, so that's sort of to clarify
2 that we didn't mean everybody on site, but
3 people who could enter radiological areas.

4 **DR. MELIUS:** Yeah, but -- but ju-- just to that
5 point, I mean really the rationale for the SEC
6 is that that first paragraph there, the --

7 **DR. NETON:** Yes.

8 **DR. MELIUS:** You really just don't know what
9 people were doing, where they were doing it and
10 so forth, so --

11 **DR. NETON:** Correct.

12 **DR. MELIUS:** -- you really can't utilize the --
13 a lot of the exposure monitoring data that you
14 do have.

15 **DR. NETON:** Correct.

16 **DR. MELIUS:** Yeah. Okay. Then -- then my
17 question is, what changes in '73?

18 **DR. GLOVER:** At that point --

19 **DR. MELIUS:** And -- and I -- and I got your
20 table of -- for those other people on the
21 Board, if you -- I think -- believe it's page
22 19 of the report -- of the evaluation report
23 where you outlined more of the mixed fission
24 product bioassay data and you show that it
25 increases, but I'm not convinced that -- you

1 know, is -- is this sufficient now to do dose
2 reconstruction? Is -- is there something -- to
3 me, it doesn't -- given the complexity of the
4 site and the number of buildings and I think
5 the number of people, I don't have a good --
6 good handle on that yet, wh-- why is -- you
7 know, why does that change post-'73?

8 **DR. GLOVER:** That's -- at that point the whole
9 body counter becomes more -- more functional,
10 we certainly have more bioassay data if you
11 look at the dataset, so it -- I -- do --

12 **DR. MELIUS:** I -- I -- I guess --

13 **DR. GLOVER:** I'll have to go --

14 **DR. MELIUS:** -- I -- I agree you have more, but
15 do you have enough is the -- I guess is the --
16 the -- is it -- is it, you know, sufficient to
17 be able to do dose reconstruction on such a --
18 you know, I mean it certainly doesn't cover
19 everybody --

20 **DR. GLOVER:** Yeah.

21 **DR. MELIUS:** -- I don't believe, and -- and if
22 activities -- I mean it's complicated, but
23 activities varied from year to year and so
24 forth. I mean if there was better, you know,
25 radiological controls or -- I mean I'm just

1 trying to understand what -- what --

2 **MR. GRIFFON:** It -- it seems like, Sam, you're
3 saying part of the rationale for that cutoff in
4 '73 or '74 was introduction of the -- the whole
5 body counting?

6 **DR. GLOVER:** The whole body counting --

7 **MR. GRIFFON:** (Off microphone) (Unintelligible)

8 **DR. GLOVER:** -- information, we have about --
9 we have more data, we can develop --

10 **MR. GRIFFON:** More data --

11 **DR. GLOVER:** -- coworker statistics that we can
12 actually have a coworker set.

13 **MR. GRIFFON:** So it's not only --

14 **DR. GLOVER:** And really it's associated with
15 the ability to develop a coworker model --

16 **MR. GRIFFON:** 'Cause I'm --

17 **DR. GLOVER:** -- if you --

18 **MR. GRIFFON:** -- I'm looking at the table that
19 Jim was referencing on page 19 of the report,
20 and it -- it does -- this is the *in vitro*, not
21 the *in vivo*, so there's also *in vivo* that
22 kicked in --

23 **DR. GLOVER:** Yeah, that's correct.

24 **MR. GRIFFON:** -- in '74 is what you're saying.

25 **DR. GLOVER:** They had research activity levels

1 prior to that, that is correct.

2 **DR. ZIEMER:** Okay, Brad, did you have a
3 question?

4 **MR. CLAWSON:** Yeah, it partially got spoke on,
5 and I don't know if this falls under the
6 Department of Labor -- up there where you call
7 out office areas outside of radiological areas,
8 I guess what I'm looking at is more a lot of
9 the clerical people and so forth that went --
10 go into these buildings and stuff, they may be
11 stationed in these buildings out there, but a
12 lot of them still go into the radiological
13 areas to retrieve data, information and so
14 forth. How are we going to be able to -- how --
15 -- how would we cover it all?

16 **DR. GLOVER:** For tho-- these would be specific
17 people who did not go into the radiological
18 areas.

19 **MR. CLAWSON:** Well, yeah, and I --

20 **DR. GLOVER:** This is what we discussed with the
21 Department of Labor and how they wanted to
22 administer the class.

23 **MR. CLAWSON:** Okay.

24 **DR. ZIEMER:** La-- Labor would have to confirm
25 on an individual case basis, I assume, that

1 person did not in fact --

2 **MR. CLAWSON:** Well -- well, as I --

3 **DR. ZIEMER:** -- have an assignment or wasn't
4 able to go into those areas.

5 **MR. CLAWSON:** And I understand that, and the
6 thing that I -- and I -- I understand with
7 Labor in this, but you know, even in the
8 industry now I have people that are assigned to
9 -- they're strictly clerical work, but they
10 come into our radiological areas. They're
11 retrieving paperwork, they're doing this, and
12 they're being subject to the sa-- a lot of the
13 same things that I am and I want to make sure
14 that those people aren't excluded from this
15 just because they're -- where they supposedly
16 work 'cause they do come into those areas.

17 **DR. ZIEMER:** Another comment, Jim?

18 **DR. MELIUS:** Yeah, I mean just to -- to
19 clarify. I mean there is *in vivo* data
20 available prior to '73. Apparently it wasn't
21 product-specific, so -- so post-- you don't
22 have a good, you know, section in the report
23 that I can refer to that sort of says to what
24 extent -- how did -- what extent did it cover
25 the people working there post-'73?

1 DR. GLOVER: Post or pre?

2 DR. MELIUS: Post, post.

3 DR. GLOVER: Yeah.

4 DR. MELIUS: And -- and -- again, I -- I just a
5 concern that, you know, where -- where do we
6 draw the line and then -- and -- in this, I
7 mean --

8 MR. ELLIOTT: Again, this is an artifact of an
9 83.14 where --

10 DR. MELIUS: Yeah, yeah.

11 MR. ELLIOTT: -- we -- we can both spend more
12 time digging to establish if the boundary is
13 firm or not in the class definition.

14 DR. ZIEMER: Well, you might get a case -- a
15 later case and find that you can --

16 MR. ELLIOTT: We may.

17 DR. ZIEMER: -- reconstruction, in which case -
18 -

19 MR. ELLIOTT: We may, I --

20 DR. ZIEMER: -- you would extend the boundary
21 then.

22 MR. ELLIOTT: Let me go back and answer Brad's
23 question, though. Those folks who are
24 stationed, and then by nature of their -- as an
25 administrative or clerical folk, but by nature

1 of their work go into these areas, these are
2 radiological control areas. As you know,
3 they're going to have an access entry point,
4 like we talked about last night in a workgroup
5 session.

6 There's another element here about this site
7 that I don't think comes out in our evaluation
8 report, and I think we should consider, and
9 that is there was a high interest for product
10 integrity in the work being performed in this
11 research at this lab. What I mean by that is
12 they're very careful or very cautious about
13 these small amounts of isotopic -- different
14 isotopes, and they wanted to make sure that
15 they had a mass balance on those, they wanted
16 to make sure they knew where they were at,
17 where they had been, you know, what reactions
18 had taken place with them. So there's a very -
19 - we think a very clear inventory of that.
20 That doesn't necessarily get to whether or not
21 a person was a roving worker who got in and out
22 of these places, so we're trying to craft a
23 definition here that says these are the
24 buildings we know of. We're going to probably
25 add more buildings to that. But if it was just

1 a cafeteria worker, only in the cafeteria, and
2 we don't believe that that person would have
3 been in an exposed situation where they were
4 monitored or should have been monitored.

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

6 **MR. SCHOFIELD:** Okay, I got some problems here.
7 One, buildings, given the historical --

8 **MS. MUNN:** Mike, Phil.

9 **MR. SCHOFIELD:** -- way these things are done,
10 some of those buildings you could -- the only
11 thing separating a person working in a
12 radiological area and non-radiological area was
13 a few two by four studs and some sheetrock.
14 And these cases can be shown throughout many of
15 the facilities, you had labs on one side of the
16 wall; on the other side of the wall you had
17 clerical people or whoever working there.
18 The other thing is I don't see any americium
19 listed there, and Livermore did do -- deal with
20 americium. The 300 area in particularly (sic)
21 I would be surprised if there was not any Pu-
22 240 ever been used in the 300 area. True have
23 been small amounts, but knowing some of the
24 projects that went on, I would have expected
25 them to have it in the 300 area, and I don't

1 see any data for either one of these two things
2 where people are being looked at, even post-
3 '73, from what you presented.

4 **DR. GLOVER:** Again, this is a product of an
5 83.14 versus an 83.13, which I won't try to --
6 if it affects it during that time frame where
7 it was looking primarily at mixed fission and
8 activation products during that '50 to '73 time
9 frame, what can't you do and not everything
10 that you can't do necessarily, so that this --
11 this is a self-designated area where we don't
12 believe we can do dose reconstruction, so we
13 haven't tried to look at every individual
14 radionuclide or every individual circumstance.

15 **DR. ZIEMER:** You mentioned some of the tests
16 being done off-site -- for example, Amchitka
17 and the Test Site and so on. Did -- did these
18 workers actually go there or did they just send
19 their samples there for...

20 **DR. GLOVER:** Every test site, and I'm sure Mark
21 or the NTS folks can speak to this extensively,
22 but there was actually a shot crew, and you
23 would actually -- they oversaw the shot, they
24 oversaw the drill-- what they called the drill-
25 back, the collection of that samples, whether

1 they got good mud or bad mud, and actually --
2 so the -- all the parts of that analytical
3 protocol so they can understand -- you know,
4 they actually oversaw -- did mi-- nuclear
5 weapon work, so they saw -- you know, taking
6 the samples out, the -- the explosion and then
7 the pull-back of those samples, so they had...

8 **DR. ZIEMER:** So if they went to Amchitka, they
9 might be eligible for SEC status under its
10 situation. Is that correct? Mr. Presley.

11 **MR. PRESLEY:** You had -- you had rad worker
12 people, you had engineers that were on site for
13 Livermore, Los Alamos, Sandia, Hanford -- can
14 you not hear?

15 **MS. MUNN:** I can hear well.

16 **MR. PRESLEY:** Okay. And these workers would -
17 - would work their regular job, and then when
18 they were involved in a shot, they would go to
19 the area where the shot was and they would work
20 on the shot, and then they would come back.
21 That's why that when you see some of these --
22 the people that paperwork, they will have -- if
23 you look at the area where they worked, some of
24 them will have Amchitka and Livermore. They
25 will have Amchitka and Los Alamos or Sandia.

1 You will have multiple sites on some of the
2 people that actually worked on the projects.

3 **MR. CLAWSON:** And actually, Dr. Ziemer, we saw
4 that in the dose reconstruction, the -- one of
5 them that we chose today was Lawrence Livermore
6 and Amchitka.

7 **MR. ELLIOTT:** To answer your question, Dr.
8 Ziemer, yes, if one of these Lawrence Livermore
9 staff participated in one of these tests at one
10 of the test sites and they were there during
11 that class period, they can accumulate time in
12 those classes.

13 **DR. GLOVER:** It would add to their 250-day
14 requirement.

15 **DR. WADE:** Phillip did raise the question early
16 in his question about sheetrock and two by
17 fours separating radiological control areas
18 from non-control areas. Do you have an opinion
19 or --

20 **DR. GLOVER:** I think what we're trying to say
21 is radiological buildings, not necessarily if I
22 -- if I got a guy who works on one side of the
23 two by four and not the other, we wouldn't say
24 whether they tried to cross that. Say if they
25 worked in a radiological building, you were in

1 that area -- in a cafeteria that's not attached
2 to that -- a facility. If you had -- like at
3 Mound where they kind of mixed in the middle of
4 all that where you wouldn't be able to
5 disassociate it, but in facilities that may be
6 strictly not attached to a radiological
7 building, that would be...

8 **DR. ZIEMER:** Okay. Phil?

9 **MR. SCHOFIELD:** Okay, I hate to bring up the
10 obvious here, but like was just said, we always
11 had these problems of ventilation of the
12 discharge from one facility, and the other
13 facility right next door to it lot of times is
14 drawing their air from the same zone that it's
15 being discharged from the neighboring facility.
16 Unless you can pinpoint those buildings down, I
17 think you would have to give credit to anybody
18 who works in that general area.

19 **DR. GLOVER:** I believe there's some discussion
20 in the report, and I don't have the report --
21 Jim Neton's going to speak to the point here.

22 **DR. NETON:** Yeah, I -- I think we need to go
23 back to the definition itself, which is
24 monitored or should have been monitored, which
25 we have consistently considered the -- anyone

1 who had the potential to receive more than 100
2 millirem of exposure, in this case for internal
3 -- from internal radionuclides, so that's what
4 would be considered by Department of Labor.
5 And I know from past experience, they would
6 entertain affidavits and whatever from -- from
7 petitioners or claimants to make that
8 determination. So the issue is -- is -- by
9 nature it's somewhat of an open issue, but we
10 have to keep our mind on this 100 millirem
11 exposure limit, and that's -- that's a pretty
12 small exposure to have to demonstrate.

13 **DR. ZIEMER:** Any other comments?

14 **DR. MELIUS:** Yeah.

15 **DR. ZIEMER:** Jim.

16 **DR. MELIUS:** I'm -- I'm still hung up on the
17 1973 cutoff and exactly what the rationale for
18 that is. Is there a -- a work-related -- what
19 kind of procedures, what kind of activity at
20 the site that -- that changed in '73? Is it
21 the -- something about the 83.14 process which
22 Larry sort of implied? Or is it something
23 about the nature of the monitoring program?

24 **DR. GLOVER:** That's where we felt we could
25 establish a coworker model.

1 **DR. NETON:** I think if you look at the
2 evaluation report, it says something to the
3 effect that we have almost no bioassay prior to
4 '73. I mean none.

5 **DR. MELIUS:** Yeah.

6 **DR. NETON:** And starting in '72 there was a few
7 samples, '73 there were more, and at the same
8 time the whole body counting program kicked in
9 -- not on a research basis but more on an
10 operational basis. So we feel with those two
11 things on line, we could construct a coworker
12 model of sufficient accuracy to bound the
13 doses. If the Board's interested in seeing the
14 details of that coworker model and reviewing
15 it, I mean that's certainly something we could
16 provide.

17 **DR. MELIUS:** You -- you -- you have not
18 developed that yet.

19 **DR. NETON:** I think it is in place, is it not?

20 **DR. GLOVER:** The Livermore coworker model is in
21 draft.

22 **DR. NETON:** In draft form at this point, okay.
23 But -- so that's something that the Board could
24 certainly look at and -- under their normal
25 process of evaluation of our site profile --

1 **MR. GRIFFON:** Well, okay, so is it --

2 **DR. NETON:** -- documents and that sort of
3 thing.

4 **MR. GRIFFON:** Can I ask just -- I don't know
5 that we need to look at it right now, but is
6 the coworker model a -- a -- based on bioassay
7 or -- I mean based on *in vitro* or *in vivo* or --
8 usually you use *in vitro* for these, but I don't
9 know --

10 **DR. NETON:** Yeah, I --

11 **MR. GRIFFON:** -- with this case.

12 **DR. NETON:** I honestly haven't -- haven't seen
13 it myself.

14 **MR. GRIFFON:** Okay.

15 **DR. NETON:** It's in draft form, but I would --
16 I suspect that it's based on the bioassay
17 samples, backed up with the *in vivo* data, which
18 we always did --

19 **MR. GRIFFON:** (Unintelligible) --

20 **DR. NETON:** -- sort of a sanity check --

21 **MR. GRIFFON:** -- way you do it, but --

22 **DR. NETON:** Yeah.

23 **MR. GRIFFON:** -- the only question I would have
24 there then, going back to the table that Jim
25 was asking questions about, is -- you know, the

1 -- the number of samples increased, but I also
2 notice that the number of locations increases
3 almost proportionately to the number of samples
4 --

5 **DR. NETON:** Yeah.

6 **MR. GRIFFON:** -- so it seems like you -- you
7 don't have much better statistics in terms of --
8 -- you know.

9 **DR. NETON:** Well, we're certainly willing to
10 discuss this --

11 **MR. GRIFFON:** Okay.

12 **DR. NETON:** -- once the model comes out and can
13 be viewed as part of the Board's normal
14 deliberations of our -- of our science. I mean
15 right now we feel strongly that prior to '70 --

16 **MR. GRIFFON:** Yeah.

17 **DR. GLOVER:** '73.

18 **DR. NETON:** -- '73, we can do these with
19 sufficient accuracy.

20 **MR. GRIFFON:** I guess we can always look at one
21 period and then discuss --

22 **DR. NETON:** Oh, absolutely, there's always --

23 **DR. ZIEMER:** The door remains open --

24 **DR. NETON:** The door remains open.

25 **DR. ZIEMER:** -- for something beyond '73.

1 DR. NETON: Right.

2 DR. ZIEMER: It's not precluded --

3 DR. NETON: Exactly.

4 DR. ZIEMER: -- at a later (unintelligible).

5 DR. WADE: Where -- where would the coworker
6 model -- where would that work product be that
7 would contain the -- the coworker model?

8 DR. NETON: It -- it could either be part of
9 the site profile or it could be a stand-alone
10 document, I'm not sure what it would come up,
11 but it would either be a TIB or --

12 DR. GLOVER: It is a TIB.

13 DR. NETON: It is a TIB, so it's a Technical
14 Information Bulletin issued by NIOSH.

15 DR. WADE: So that would be something that
16 would typically be reviewed by the bureau as a
17 -- by the Board as a procedure?

18 DR. NETON: It would be available to be
19 reviewed as a procedure by the Board.

20 DR. WADE: Okay, thank you.

21 DR. ZIEMER: Okay. Other comments?

22 MR. GRIFFON: Just a -- and -- and I don't
23 know, I -- I agree with Larry and Jim on -- on
24 the way they've characterized this -- the
25 definition. I -- I just think it might be

1 worth discussing a little more as a Board. I
2 mean my concern with this is that -- something
3 we're -- we're dealing with right now with
4 Rocky Flats, and I'll -- I'll report on it in
5 the workgroup, but -- and I -- and I -- you
6 know, I -- I was part of that process because I
7 suggested for Rocky Flats to use the language
8 "monitored or should have been monitored" be--
9 just because we weren't sure of the -- the
10 breadth of the number of buildings that could
11 have had neutron exposure in that case. Here -
12 - here, this is the same concern I have with --
13 with this definition, that if -- if we have --
14 in a lot of cases we're going to be relying on
15 probably work history cards, and they may have
16 -- well, I don't know, I guess it's a question,
17 too, do we have work history information for
18 the individuals that -- you know, I guess
19 saying that DOL will make this determination is
20 one thing. But if you already know there's no
21 good work history for these people, I think you
22 have to say these -- you know, we can't just
23 throw these to DOL. We know we don't have work
24 records of where these people went and
25 therefore we should go broader than just

1 monitored or should have been monitored. We
2 should just say all workers. If you have work
3 history information, then the question would be
4 if it says they were -- sort of -- if it's by
5 building designation, a lot of times -- one
6 concern we've been grappling with with Rocky
7 Flats is if they're assigned to one building --
8 like maintenance crews could have been assigned
9 to a maintenance building where there were no
10 potential exposures to this type of -- you
11 know, the -- the radionuclides of interest, but
12 they could have been sent out to other
13 locations. And how do we -- you know, from --
14 even if we went back to interview people, a lot
15 of the -- a lot of these are survivor claims,
16 so you can't necessarily get it in your CATI
17 interview process.

18 I guess that's the question, is we don't want
19 to leave this in a -- in dispute mode. Rather,
20 we'd like to be clean with our definition, as -
21 - as clean as possible.

22 **DR. ZIEMER:** Jim.

23 **DR. NETON:** I think if you go back to these two
24 bullets on this one slide, I think we've --
25 we've cast about a broad a net as we can

1 without saying everyone on site. It
2 essentially says anyone who had the potential
3 to work in any building that had radiological
4 material is covered. If you read that first
5 bullet, that's basically what it says.

6 **MR. GRIFFON:** Yeah.

7 **DR. NETON:** All it has is a proviso in the
8 second bullet that says for those who could
9 clearly be defined as not having any potential
10 exposure to radiological material or less than
11 100 millirem, they're not. And so I think it's
12 -- it's very close to that, but I think we do
13 believe strongly that there are some areas on
14 site that could have not had -- you know,
15 certainly a true administration building,
16 completely separated from the radiological
17 areas, would not have exposure. And that's why
18 we put that in there, just to make sure that
19 that possibility was -- was open so that, you
20 know, we weren't covering someone in an
21 administration building that had no --

22 **MR. GRIFFON:** Yeah.

23 **DR. NETON:** -- potential for exposure.

24 **MR. GRIFFON:** And -- and I don't disagree with
25 you in theory. I just want to make sure we

1 We still have before us the Lawrence Livermore
2 petition. This -- the Chair would ask if there
3 are any more comments or questions on the
4 petition from the Board members. Mr. Clawson?

5 **MR. CLAWSON:** You know, we -- we've put Sam
6 kind of in a predicament there because we've
7 kind of been expecting him to answer these
8 questions of employment and so forth, and I was
9 wondering if we could get Labor to discuss
10 anything on that. I know that I saw Jeff here
11 and I was just wondering.

12 **DR. ZIEMER:** Okay, Jeff, do you have any
13 comments at this time? You're -- I guess you
14 heard the previous discussion and know that the
15 concerns have to do with how one establishes
16 whether or not the -- the particular claimant
17 has been in a radiological area or has access
18 to it and so on.

19 **MR. KOTSCH:** Right. One of our concerns would
20 be always that the definition be as explicit as
21 possible. We had, as Mark noted, issues with
22 the Rocky Flats, and we've had issues with some
23 other site where the definition wasn't always
24 as explicit as perhaps possible to interpret
25 the class. Certainly the addition of something

1 about -- and we're not going to def-- you know,
2 we don't want to direct the -- the definition
3 of the class, but if -- if there was
4 clarification regarding whether, you know, you
5 could have non-radiological or admin types, you
6 know, were separated out or something like
7 that. The "monitored or should have been
8 monitored" is good. It's sometimes difficult
9 for the Department of Labor to def-- to
10 actually decide who those people are.
11 To -- with -- forget -- some -- Brad, did you
12 have other specific concerns?

13 **MR. CLAWSON:** Well, the main thing that I'm
14 getting into is that -- I know we've seen it at
15 numerous other sites and so forth like that,
16 especially with their labor history or so forth
17 like that, somebody may have worked in a high
18 radiation area for so many years, and then as
19 they get older and so forth like that gone to a
20 non-radiological area. And in -- and on their
21 -- on their claim and so forth their labor
22 history shows them as just being there. I give
23 an example of -- in Idaho where the fella
24 worked on the jet propulsion systems, he worked
25 at MTR/ATR, all those reactors. But as he got

1 older and wasn't able to do more as this, he
2 went into a non-radiological area and his claim
3 was denied because there was no radiation in
4 this area, but -- and it was due to his labor
5 history that they said there, and I have an
6 issue with that because I think a lot of times
7 this can happen. And I just want to try to
8 make sure as we're going into Lawrence
9 Livermore and so forth that we can either right
10 it or we can do something to be able to capture
11 this because there is a lacking with the labor
12 history of -- you know, they kind of forget
13 what happened before. And when you start
14 thinking of not a person that had been there
15 but let's say their widow or so forth like that
16 that doesn't have all the history of where he
17 was at, I really see this as an issue.

18 **MR. KOTSCH:** Yeah, we -- and we recognize those
19 things. I mean each case is obviously done on
20 a -- on a case-specific bas-- you know, case-
21 by-case and looked at in that case. But again,
22 like we said, when the definitions are more
23 specific, that -- it certainly helps us in the
24 interpretation of that class.

25 **DR. ZIEMER:** Right, so you do -- do try to

1 establish the full work history, not just take
2 the final job classification --

3 **MR. KOTSCH:** Yeah --

4 **DR. ZIEMER:** -- and assume that.

5 **MR. KOTSCH:** -- (unintelligible).

6 **DR. ZIEMER:** Right. I -- I just realized that
7 I neglected to give time for the petitioner to
8 speak. Raili Glenn, are you still on the line?

9 **MS. GLENN:** Yes, I am.

10 **DR. ZIEMER:** Oh, thank you for being patient.
11 Do you have some comments for us?

12 **MS. GLENN:** Yes, I do. Am I on now?

13 **DR. ZIEMER:** Yes, please proceed.

14 **MS. GLENN:** Am I on now?

15 **DR. ZIEMER:** Yes.

16 **MS. GLENN:** Yes. Okay. My name is Raili
17 Glenn, okay? My husband -- I give -- I give
18 you a little bit background to him. My
19 husband, David Glenn, supported himself since
20 he was eight years old. He put himself through
21 graduate school and he was top of the -- his
22 class with grade point average four. He always
23 worked one to two shots while attending school.
24 No one helped him financially since he was
25 eight. He did not get any government help, or

1 did he ever ask. His goal was to be physicist.
2 He wanted to work on the projects that would
3 benefit our country.

4 After he graduated with honors at Washington
5 State University David got job in the Lawrence
6 Livermore National Laboratory, 1966. He worked
7 there 25 years. He did lot of experimental
8 work site 300 and he also did a lot of nuclear
9 shots in NTS which I will comment more. And I
10 remember him telling me that lot of
11 (unintelligible) was done underground and no
12 one worried about contamination those days.
13 Whatever was not used or needed anymore was
14 (unintelligible) and around.

15 David did test different kinds of chemicals.
16 Some are classified and some are unclassified.
17 Site 300 is most contaminated site in country.
18 Lawrence Livermore Lab found out that there
19 were -- their ground water was contaminated,
20 and benzene was found in the drinking water.
21 Before 1960 Lab site was used for Air Force
22 base. When the Lab took over, no cleanup was
23 done at the site and benzene caused bone marrow
24 cancer. That's what my husband had.

25 David worked several kinds of -- several kinds

1 -- no, I'm sorry. David worked different kinds
2 -- different buildings at the site
3 (unintelligible). I remember him telling me
4 that there was a radiation leakage while he was
5 there, but I do not remember location.
6 David also had tremors. His hands -- hands
7 were shaking. He had hard time writing or
8 holding something in his hands steady. He was
9 examined by neurologist several times to see if
10 he had Parkinson's Disease, but doctors could
11 not see any signs of that. Doctor was never
12 able to find what caused the tremors. Lately
13 Oak Ridge Institute has done studies that
14 mercury, plutonium and uranium cause tremors.
15 It cause the tremors.
16 He did lots of writing nights and weekends at
17 home. He never took a vacation when he was
18 employed by Lab. He was writing his numerous
19 publications at home. David wanted to leave
20 more knowledge behind for future generations to
21 come, more than what he had taken with him. He
22 definitely left a legacy behind.
23 David was getting too ill to work so he took
24 retirement -- the retirement when he was 58
25 years old and suffering until he's dead, 2005.

1 Lawrence Livermore National Lab has destroyed
2 all David's X-rays and badges do not show what
3 he inhaled. X-rays taken in (unintelligible)
4 Hospital show that his lungs have been
5 'taminated by radiation.

6 When he retired 1990 he was only earning less
7 than \$50,000 a year. Lab did not pay
8 (unintelligible) big salaries. In 1970 he was
9 only making \$16,000 a year. If he was working
10 in a private company he would have made four
11 times his wages, but David loved his job and
12 that was the reason he worked there. His job's
13 his life and he benefited. He believed
14 research.

15 I have calculated his wages total 20 years he
16 earned while in Lawrence Livermore National
17 Lab. It totals \$780,178, and the medical bills
18 totaled last 16 years, all the expenses
19 associated his illness, totaled \$177,280. I
20 came up what he earned by working 25 years and
21 what he spent last 16 years for his medical
22 expenses was 25 percent of his earnings.

23 David's illness did not only harm David, but
24 also his family. I had to quit working to take
25 care of him and take him to medical treatment

1 and doctors' appointment. It happened several
2 times a week. It had big impact in my life,
3 financially, physically and emotionally.
4 I wish that I did not have to testify this to
5 you, but unfortunately that is not the case
6 because he is not here to (unintelligible). I
7 thank you for listening and I hope that you are
8 looking deeply in my case. This has been in
9 your books already six years. Do you have any
10 questions?

11 **DR. ZIEMER:** Okay. Thank you very much, Ms.
12 Glenn. Let me ask if there are any questions,
13 Board members?

14 (No responses)

15 Apparently not. Thank you very much.

16 **MS. GLENN:** Okay, you're welcome. Thank you
17 for listening.

18 **DR. ZIEMER:** Board members, any other comments
19 or questions in general on this petition? Dr.
20 Melius.

21 **DR. MELIUS:** Yeah, just back to that -- that
22 issue on the definition and Brad's questions.
23 I think, if I understand the report and the
24 presentation, I think we're saying that Table
25 4.2 in the report, and it was in the slide

1 presentation also, the list of buildings and so
2 forth, we want the -- it would be people
3 working in those buildings, but not limited to
4 -- there may be other buildings, so I guess my
5 question is do -- is -- is that something that
6 -- in terms of dealing with -- helping
7 Department of Labor, is it enough to have it in
8 the report or do we want to somehow reference
9 that in a -- any sort of recommendation that we
10 make? It sort of cuts both ways and maybe it's
11 something that we need to think about, but we -
12 - we always struggle with this issue of the
13 class definition and I -- I -- I would think --
14 **DR. ZIEMER:** Well, while they're pondering that
15 --
16 **DR. MELIUS:** Yeah.
17 **DR. ZIEMER:** -- let me suggest that if -- if
18 this Board doesn't have a recommendation for
19 Friday, we're going to have that issue in the
20 wording itself anyway. How -- how will we
21 define that class, just using the words on the
22 slide or can it be refined further?
23 **MR. ELLIOTT:** Well, this is similar to the Los
24 Alamos class where we had a ver-- a variety of
25 technical areas, but we weren't confident that

1 they were all-inclusive and so we didn't put
2 into the definition a listing of those because
3 we didn't want to ex-- loo-- have it look like
4 it was inclusive and we would exclude somebody.

5 **DR. ZIEMER:** (Unintelligible) just use the
6 words "radiological areas" then.

7 **MR. ELLIOTT:** Yes, I think that is the best.
8 And then we have to work with DOL to define,
9 for them, what we consider to be a radiological
10 area.

11 **DR. ZIEMER:** And once you do that, DOL ends up
12 in a sense with a list of buildings as a
13 starter, I suppose.

14 **MR. ELLIOTT:** Yes, I -- I think that is the
15 starting point.

16 **DR. ZIEMER:** And if you later find another
17 area, is there a formal process where that gets
18 added?

19 **MR. ELLIOTT:** We can rec-- if we find it, we
20 can certainly recommend to DOL that this is an
21 area that should be included in the class.
22 They have a technical bulletin process, as
23 you've seen in the Rocky Flats experience,
24 where they've added a building or two to the
25 list that we provided them.

1 **DR. ZIEMER:** Jim, does that answer the
2 question, or does that raise more questions for
3 you?

4 **DR. MELIUS:** I -- it -- it -- it -- yeah, I
5 mean it sort of answers in the sort-- I -- it -
6 - it's -- I'm never quite sure what the right
7 ap-- approach is (unintelligible).

8 **DR. ZIEMER:** We all -- "we" being the Board and
9 NIOSH and -- and Labor, all want to have the
10 correct definition and make sure we're not
11 excluding people that should be included. But
12 at the same time, not include people who
13 shouldn't be included, I guess you'd have to
14 say.

15 **DR. MELIUS:** Yeah.

16 **DR. ZIEMER:** So it cuts both ways, but -- so
17 it's important that we give some care to what
18 the definition is.

19 **DR. MELIUS:** And certainly -- it -- the -- long
20 as the -- certainly the public record would
21 show that -- that we were referencing that --
22 that table in the report and that was sort of
23 the basis with -- for the -- you know, defining
24 the Special Exposure Cohort, but with the
25 understanding that there may very well be other

1 locations at that site that aren't listed in
2 that -- that particular table, but that would
3 be certainly the place to start from.

4 **DR. ZIEMER:** Now I'd like to ask the Board if
5 you would like to take action on this
6 recommendation from NIOSH -- that is, to
7 recommend to the Secretary that this group be
8 added to the Special Exposure Cohort, the group
9 up through '73. And again, that action does
10 not preclude additions later on, and if the
11 Board made such a motion the Chair would be
12 prepared to ask our SEC workgroup which Dr.
13 Melius chairs to take the responsibility for
14 looking at the issue of the -- of this SEC
15 particularly and the models that would be used
16 in -- in the co-- the cohort models that would
17 be used. But let me ask if anyone wishes to
18 make a motion.

19 **MR. GRIFFON:** Coworker models.

20 **DR. ZIEMER:** Coworker model. Does anyone wish
21 to make a motion on this?

22 Mr. Schofield.

23 **MR. SCHOFIELD:** Yeah, I'll make the motion to
24 give -- but like I -- still I would like to
25 have -- before we can finalize it, that we have

1 a little better definition of how they're going
2 to make this determination for the buildings
3 and stuff, so who will be in it and who won't
4 be in it.

5 **DR. ZIEMER:** Well, I -- I think that we just
6 heard that the definition is going to actually
7 be somewhat -- shall I use the word fuzzy?
8 It's going to try to be inclusive --

9 **MR. ELLIOTT:** I don't think it's fuzzy at all.
10 It's --

11 **DR. ZIEMER:** No, I --

12 **MR. ELLIOTT:** -- all radiological areas --

13 **DR. ZIEMER:** All radiological areas.

14 **MR. ELLIOTT:** -- on the site during those
15 years. That is not fuzzy.

16 **DR. ZIEMER:** No.

17 **MR. ELLIOTT:** That is what we're saying.
18 What's excluded is those non-radiological
19 areas.

20 **DR. ZIEMER:** Actually that gives me a warm
21 fuzzy feeling, though, Larry.

22 **MR. ELLIOTT:** Well, I'm happy for you.

23 **DR. ZIEMER:** But you're quite right -- you're
24 quite right -- The Chair apologizes for using
25 that term. It -- it's not precise in terms of

1 specific buildings, so in that sense -- that
2 was not a good descriptor, however. And it's
3 very precise, radiological areas. Now
4 radiological areas, to some health physicists,
5 may be fuzzy.

6 Okay, Jim Melius.

7 **DR. MELIUS:** Yeah, I'll -- I'll second Phil's
8 motion and also maybe offer a suggestion that
9 maybe the workgroup can sort of monitor what
10 goes on between NIOSH and DOL, if only for
11 educational purposes in trying to see if we can
12 get this process figured out and improved, if
13 necessary.

14 **DR. ZIEMER:** Okay. The motion before us then
15 is to recommend to the Secretary the addition
16 of this class to the Special Exposure Cohort,
17 the class as described by the NIOSH evaluation
18 report.

19 Any discussion? And again, we would come back
20 Thursday with the specific wording that would
21 go to the Secretary. Wanda Munn.

22 **MS. MUNN:** You know, with only minor
23 modification to the wording of the proposed
24 class as it was shown to us, we can probably
25 get as -- as specific as we're going to be able

1 to get, just relying on that wording alone.
2 It's of concern that we continue to be unable
3 to get precise enough to be able to make a
4 decision on this without creating more problems
5 that we're -- than we're solving in our
6 language. The proposed class is all employees
7 at the Department of Energy, its predecessor
8 agencies and contractors and subcontractors who
9 were monitored or should have been monitored
10 for external exposure -- at this point if we
11 said in all radiological areas of the Lawrence
12 Livermore National Laboratory for a number of
13 work days, et cetera, et cetera -- it appears
14 that it would come as close to covering what we
15 want to cover as we're likely to be able to
16 get, without a number of additional codicils,
17 pages of dialogue and specifically excluding
18 individuals.

19 **DR. ZIEMER:** Well, I -- I think in essence that
20 is the motion.

21 **DR. MELIUS:** Yeah, that -- can I cover that? I
22 mean yeah, that is -- is the motion and that's,
23 you know, I think what we're approving. I
24 think the issues we've heard the Department of
25 Labor state that they would -- that in some

1 ways it's easier for them if it's more
2 specific, building-specific or whatever in --
3 in terms of a definition. I think NIOSH has
4 made the case that in this instance that's not
5 easy to do because we may not have complete
6 knowledge of all the places where -- where
7 people were, and I think we just -- and Phil
8 and Brad and others have raised concerns about
9 how this'll be implemented, and I -- I think
10 what we're trying to say is let's see if the --
11 you know, hold to that definition for now, but
12 let's see if, as we move forward with this, if
13 there's a better way of doing this. We've had
14 a unfortunate problem with Rocky Flats and I
15 think it would help us if we continue to try to
16 figure out if there's a better way of doing
17 these class definitions that -- that is --
18 makes it easier for Department of Labor to
19 implement that and captures the intent of
20 what's in the -- the NIOSH report.

21 **DR. ZIEMER:** Thank you. Board members, are you
22 ready to vote then? Okay, we'll vote by roll
23 call again on this.

24 **DR. WADE:** Brad Clawson?

25 **MR. CLAWSON:** Yes.

1 DR. WADE: Wanda Munn?

2 MS. MUNN: Since I'm not certain still exactly
3 what we're voting on, I --

4 DR. ZIEMER: Well, we're voting on the motion,
5 basically as you described it.

6 DR. MELIUS: Yeah.

7 DR. ZIEMER: I'm putting the burden back on
8 you.

9 MS. MUNN: If I described it that way, and
10 that's what I'm voting on, yes.

11 DR. WADE: Dr. Melius?

12 DR. MELIUS: Yes.

13 DR. WADE: Dr. Lockey?

14 DR. LOCKEY: Yes.

15 DR. WADE: Phillip Schofield?

16 MR. SCHOFIELD: Yes.

17 DR. WADE: Josie Beach.

18 MS. BEACH: Yes.

19 DR. WADE: Michael Gibson?

20 MR. GIBSON: Yes.

21 DR. WADE: Robert Presley?

22 MR. PRESLEY: Yes.

23 DR. WADE: Mark Griffon?

24 MR. GRIFFON: Yes.

25 DR. WADE: Gen Roessler, are you on the phone?

1 Gen?

2 **DR. ROESSLER:** I'm on, I vote yes.

3 **DR. WADE:** All right. And Dr. Ziemer, would
4 you like --

5 **DR. ZIEMER:** Yes.

6 **DR. WADE:** -- your vote recorded?

7 **DR. ZIEMER:** Yes.

8 **DR. WADE:** Okay, so the vote is unanimous, 11-
9 0, with one member away from the table.

10 **DR. ZIEMER:** Okay, thank you very much.

11 **MS. MUNN:** Thank you.

12 **DR. ZIEMER:** Then the Chair does ask the
13 workgroup on SECs, chaired by Dr. Melius, to
14 take this issue as a part of their task to
15 monitor and work with NIOSH -- and our
16 contractor, if needed -- to look at the open
17 questions on this particular petition.
18 Okay, Dr. Poston now is returning to the table,
19 I think.

20 **NIOSH PROGRAM UPDATE**

21 Our next item is an update -- a NIOSH update
22 and Larry Elliott is going to provide that for
23 us.

24 **MR. ELLIOTT:** Good afternoon, ladies and
25 gentlemen of the Board and members of the

1 public. It's a pleasure to be here in Las
2 Vegas again to give you another program status
3 update and talk about a variety of things.
4 We'll go through a typical set of slides that I
5 use to present where the program is at, you've
6 seen many of these, but the numbers constantly
7 change. I'll try to point out for you critical
8 changes that -- and trends that we're -- we're
9 monitoring at this point in time.

10 As of the end of December of last year, that
11 would be the end of the first quarter of the
12 fiscal year '08, 26,108 cases have been
13 referred to NIOSH for dose reconstruction.
14 We've completed 75 percent of those, or 19,255.
15 And if we break that number down further,
16 17,074 have been returned to the Department of
17 Labor with a dose reconstruction report for a
18 decision by DOL.

19 We've had 670 claims pulled from our dose
20 reconstruction program by the Department of
21 Labor, and this happens for a variety of
22 reasons, as I've told you in the past. In some
23 cases it may be a claim that was sent to us
24 that was a Part D, or now Part E, and shouldn't
25 have been referred to us. In other cases it

1 might have been a chronic lymphocytic leukemia
2 claim, and that is the only cancer not covered
3 under this program at this time. But there are
4 other reasons as well, but 670 have been pulled
5 from dose reconstruction so we consider our
6 work to be completed on those. There have been
7 1,511 claims or cases pulled from dose
8 reconstruction for SEC class determination by
9 Department of Labor.

10 We have 25 percent, or 6,541, of that 26,108
11 that are still at NIOSH for dose
12 reconstruction. And in that -- in that number,
13 6,541, there are actually 851, or 13 percent,
14 of those claims are -- have a dose
15 reconstruction in front of the claimants under
16 their review. So we've completed our work on
17 13 percent of that 6,541 and we're waiting for
18 the -- for the claimant to -- or claimants to
19 provide us an indication that they have no
20 information to provide and the claim can be
21 moved on to Department of Labor.

22 We have one percent, or 312, claims that have
23 been administratively closed. And this
24 terminology means that we have completed our
25 work on the claim and we're awaiting the

1 claimant to indicate to us, in signing what we
2 call an OCAS-1 form, that they have no further
3 information to give, and this -- this number
4 has not changed dramatically over the course of
5 time. It remains about one percent of our
6 claims.

7 Here's a pie graph to show you those similar
8 numbers -- number completed; number pulled,
9 pulled again meaning that Department of Labor
10 has retrieved the claim from us; the number
11 that have been pulled from us for SEC purposes,
12 to determine eligibility. Those that are
13 administratively closed are in red, as you see.
14 The active claims in this pie chart are shown
15 in yellow, and we have in green a -- these are
16 also part of the active claims, but they are
17 pending for some technical reason. So the
18 yellow and the green can go back and forth,
19 changing as -- as technical issues are
20 identified and we resolve those issues, a claim
21 can be unpended and become active again.

22 Of the 17,074 dose reconstruction claims that
23 we sent back to DOL for final adjudication, we
24 believe that 32 percent of the cases had a
25 probability of causation of greater than 50

1 percent or would be found to be compensable by
2 the Department of Labor. That leaves 68
3 percent, or 11,600 claims, that had a
4 probability of causation of less than 50
5 percent, and we believe the Department of Labor
6 will recommend a denial in that -- those
7 instances.

8 If we look at the distribution of probability
9 of causations that you -- as are depicted in
10 this graph -- bar graph slide, and these
11 numbers total up to that 17,000--some that we've
12 sent back to DOL, you'll see that -- that the
13 claims that are non-compensable, those that are
14 between zero and 49 percent probability of
15 causation, are trending to be pretty flat-lined
16 across those distributions.

17 Of the 6,541 cases remaining at NIOSH for dose
18 reconstruction, 2,242 cases are currently
19 assigned and are in some state of progress of
20 dose reconstruction. They're assigned to a
21 health physicist and they're moving through
22 that -- that process. 851 initial draft dose
23 reconstruction reports are currently in the
24 hands of the claimants and NIOSH is awaiting
25 the return of the OCAS-1 form from those

1 claimants so we can move those on to Department
2 of Labor. 3,448 cases are not assigned
3 currently to a health physicist for dose
4 reconstruction. And as I indicated, some of
5 those are -- more than 1,000 -- are pended for
6 a variety -- various reasons.
7 That leaves a bullet here that I need to speak
8 about particularly. As we look at the oldest
9 cases in our hands that are of the active
10 category, 52 percent are noted to be older than
11 one year. And we take special note of that
12 'cause we're trying to exert extra effort to
13 move the oldest cases through the system.
14 That leads me to this next slide which speaks
15 about the first 5,000 cases that NIOSH had
16 received and how much work do we have left in
17 that category of claims, those being the oldest
18 claims. I think the -- the key number here is
19 the bottom number. We have 59 that are still
20 awaiting a dose reconstruction. And of that 59
21 -- that number will be reduced, we think, to 44
22 very quickly as the NUMEC class is adjudicated.
23 Fourteen of those 59 -- 15 of those 59 cases
24 are NUMEC claims that we feel will be eligible
25 in that class. That still leaves us with 44

1 that we need to work very hard on and get an
2 answer to the claimants on their dose
3 reconstruction.

4 I think it's -- there's some important
5 background here to consider. We have -- in
6 late October we went to Washington, D.C. and
7 Dr. Howard was asked to give testimony in front
8 of the -- Senator Kennedy's health committee,
9 and in that we were asked about timeliness of
10 dose reconstruction, how long does it take to
11 do a dose reconstruction. The background I
12 want to share with you is that in the early
13 days of the program we -- we received over
14 10,000 claims right away, as soon as -- as DOL
15 could process those claims, we -- it resulted
16 in a backlog to us. That -- a decision was
17 made to look at where those claims came from,
18 which site they represented, and to then make
19 an extraordinary effort to develop site
20 profiles or Technical Basis Documents, tools
21 that could be used to reconstruct doses for the
22 majority of claims for that given site. We
23 recognize that these documents, these site
24 profiles, Technical Information Bulletins,
25 Technical Basis Documents, have holes in them

1 and in some instances there were sections that
2 were reserved. But they enabled us to get
3 started on dose reconstruction as soon as we
4 possibly could for those claims. The point
5 here is that we view those old claims as our
6 legacy claims.

7 Up until mid-- mid-2006, July of 2006, we
8 thought we were going to be able to achieve a
9 point in our processing of claims where we'd
10 have no claim in our hands over a year old.
11 That did not come to be. There were a variety
12 of extenuating circumstances that -- that
13 prevented that from happening, but we're still
14 dedicated and we're still concerted in our
15 efforts to try to work off the oldest claims or
16 our legacy claims. It's --

17 **DR. ZIEMER:** Larry, I'm going to interrupt you
18 a minute. Someone on the phone lines has got
19 music playing. They may have -- they may have
20 gone onto a -- a standby mode or something. If
21 any of you on the phone have music playing,
22 please mute your phone. Probably the person
23 who's got it playing is -- okay.

24 **MS. MUNN:** Is it -- it is in the phone, it's
25 not in the speaker system?

1 **DR. WADE:** Thank you.

2 **DR. ZIEMER:** Okay, Larry will continue then.
3 Thanks.

4 **MR. ELLIOTT:** Okay. Well, I was -- I was
5 trying to address an issue about timeliness and
6 dose reconstructions, and in that I'm -- and
7 I'm reporting to you that we have a set of old
8 cases that we call legacy cases. And our
9 efforts on those, if we report out an average
10 time under those cases to complete a dose
11 reconstruction, we see that taking around 966
12 days, on average, which is too, too long. And
13 this is one of the numbers that was reported
14 out in the health committee meeting.

15 If we look at the current claims, those that
16 are defined as coming to us after July of 2006,
17 then our average time to complete a claim under
18 dose reconstruction is 159 days, and that's
19 where we want to be, or less. And so we're
20 developing goals and objectives right now for
21 this new fiscal year that we're going to put in
22 place to address both the legacy and the
23 current claims, and try to improve timeliness
24 in both regards.

25 This next slide shows, in a curve form, the

1 claims that have been sent to us by the
2 Department of Labor for dose reconstruction,
3 and that's shown in this -- I don't -- a light
4 blue line, I guess, that runs this way. And
5 then the draft dose reconstruction reports that
6 we have sent out are shown in this green --
7 pale green line. And the final dose
8 reconstruction reports, after we hear back from
9 the claimant that they have no further
10 information to provide, is shown in red.
11 What I want to point out for you here is we are
12 now in a new phase where we're building another
13 backlog. We're seeing more claims come in than
14 we are sending dose reconstructions out. That
15 is due to a variety of things, one of which is
16 the funding constraints that we operated on in
17 the last three quarters of Fiscal Year '07.
18 And also another thing would be some of the
19 increase in recruiting of claims that DOL has
20 done. That's worked against us in that regard,
21 but we certainly welcome those claims so that
22 we can work on them. So there's a variety of
23 factors. We're attentive to this backlog
24 that's building right now. We're anxiously
25 awaiting a -- a contract to be awarded for a

1 new contract support, and once that's in place
2 we feel that we'll be able to get back up to a
3 capacity that we had realized in 2006.

4 This graphic shows you, in increments of 1,000
5 claims, from the -- from zero to 1,000 and then
6 1,001 to 2,000, that kind of a framework, the
7 status of the claims within those 1,000-case
8 categories. And here we're showing that in the
9 purple, those are the SEC cases that would be
10 found in that representative group of tracking
11 numbers. The yellow is those that are
12 administratively closed at this time. The
13 cases that are pended are in this lime green,
14 and the cases that are active are in this
15 yellow or mustard color. And then the cases
16 that have been pulled are in red, and that
17 leaves the cases completed in this light green-
18 gray. So that just gives you a depiction by
19 increments of 1,000 of our progress in working
20 through these claims.

21 I'll talk a moment about our reworks. Reworks
22 are another process stream of claims, if you
23 will. This is a set of claims that comes back
24 to us from the Department of Labor. Typically,
25 in the past, these claims represented in this

1 grouping in the first quarter -- in the
2 quarters from 2003 until the second quarter of
3 2007, represent by and large demographic issues
4 associated with the claim. A new survivor, new
5 cancer, additional employment, something has
6 been found regarding the circumstances of the
7 claim that requires us to rework that dose
8 reconstruction. Very few of these represent a
9 technical change in the dose reconstruction
10 approach.

11 What you see here at the end of this graphic
12 where there's a major increase or substantial
13 increase in reworks that have been returned to
14 us, these are the PERs that are coming back to
15 us and we'll talk about those in a moment. But
16 primarily this first batch here are super S,
17 highly insoluble plutonium P-- Program
18 Evaluation Review cases that we have to look
19 at.

20 As you know, we approach the Department of
21 Energy with requests for individual monitoring
22 information for each claim, and this slide
23 depicts the number of outstanding requests as
24 being 553 as of the end of December, 2007. We
25 monitor our requests to DOE on an every-30-day

1 basis, follow up with them on where they're at
2 on pursuing this information, what can they
3 tell us about that pursuit, are they ready to
4 close it down, are they ready to provide it to
5 us. So we report out to you the number of 170
6 here that are outstanding in excess of 60 days.
7 And primarily the bulk of these come from --
8 from two DOE operations office areas that
9 represent a number of sites. There's a -- in
10 this 170 the Oak Ridge operations office has
11 custody of 124 of those that are over 60 days,
12 representing different sites -- K-25, X-10, Y-
13 12. The Mallinckrodt folks are also included
14 in this, there's a couple of those. And
15 Paducah and Portsmouth Gaseous Diffusion
16 Plants, so it's not just one site. They're
17 sprinkled -- those 124 are sprinkled across
18 those sites.

19 The second most prevalent operations office
20 that has custody of outstanding requests more
21 than 60 days is Chicago Ops Office, and that
22 represents the Argonne National Lab East and
23 West, as well as the Lawrence -- Lawrence
24 Berkeley Laboratory. So there's -- there 24 --
25 or 22 claims represented by that Chicago

1 operations office.

2 We've tried to give you some insight at each

3 Board meeting on where we stand with our

4 efforts on developing appendices for Technical

5 Basis Documents 6000 and 6001. And in your

6 October Board meeting in Naperville I think the

7 numbers were considerably higher. We've

8 learned as we've proceeded through the

9 development of these appendices that it may be

10 wiser and more time-efficient if we just treat

11 the few dose reconstructions that have to be

12 treated, without spending time to develop a

13 full-blown Technical Basis Document appendices.

14 So the numbers that you see here on this slide

15 have dropped from that slide I presented in

16 Naperville.

17 Right now we have 15 site appendices completed.

18 We have three others that are in review for

19 TBD-6000. For TBD-6001 the number has dropped

20 to five, and all five are completed. And we

21 don't have any others that we envision we'll be

22 putting forward for review or finalization.

23 Talked a minute ago -- introduced the -- this

24 Program Evaluation Review, which is done

25 whenever we identify a technical change in our

1 dose reconstruction approach that would
2 increase dose for a claim or set of claims.
3 And when that happens we write up this Program
4 Evaluation Review. There are 32 of these. You
5 can find them on our web site. And right now
6 those 32 would represent around -- this 13,077
7 is somewhat an inflated number because many of
8 these claims might be affected by multiple
9 PERs. So once we look at a claim, we'll rub it
10 off against all PERs pertinent to that claim,
11 and that number is, again, over-inflated.
12 We're not sure exactly what the total number
13 is, but we're working through those.
14 We know to date that the number of claims that
15 have switched in their compensation decision --
16 in other words, because of a Program Evaluation
17 Review and a change in our technical approach,
18 we've seen 157 claims move to a compensable
19 state by DOL based upon a change that we've
20 initiated. Primarily this 157 is represented --
21 - I believe 154 of them are lymphoma claims,
22 and the Board is looking at the PER on lymphoma
23 and how we processed those claims against that
24 one. The other three, I don't know exactly
25 what -- one was a Bethlehem Steel, I think.

1 But by and large, we're seeing the PERs result
2 in no change in decision for the work that
3 we've done to date; 5,380 claims with no
4 change, and there's 7,540 that are in the
5 process of review and evaluation to determine
6 if a change will occur.

7 We'll move now to the Special Exposure Cohort
8 classes, 25 Special Exposure Cohort classes
9 have been added since May of 2005. Of those,
10 we break those down into 16, or 59 percent, are
11 proc-- have been processed through the 83.13
12 process. This is where a petitioner petitions.
13 As you've heard today in the Mound, we've had
14 two petitions from people who felt that they
15 needed to have a clearer explanation of how we
16 could do dose reconstruction, or identify for
17 us where we cannot.

18 Nine of these 25 classes that have been added
19 were done so through the 83.14 process. And
20 that's where NIOSH has determined, through the
21 normal dose reconstruction process, that we
22 cannot reconstruct the cla-- the dose for a
23 given claim and we establish a class around
24 that claim, as you heard for the Livermore
25 petition today.

1 These 25 classes represent workers across 19
2 sites, so some sites have more than one class.
3 It represents also around 1,500 potential
4 claims the Department of Labor are determining
5 eligibility for.

6 I want to spend a little bit of time in the
7 next three slides speaking about the quality
8 assurance and quality control program that has
9 been instituted at NIOSH in processing these
10 claims. I don't think we give this enough
11 conversation time in Board meetings, and we're
12 trying to do more of this. But essentially,
13 you know, from day one we've had a very rigid
14 quality assurance/quality control program.
15 It's in everybody's job description to work on
16 improving the content and quality of a given
17 claim, as well as a dose reconstruction that is
18 produced in that effort. So we have quality
19 control processes that are imbedded within the
20 dose reconstruction approaches, and we have
21 technical documents that are used to complete
22 those dose reconstructions.

23 An example of a quality control process in that
24 regard would be that there are three
25 independent reviews that are performed once a

1 draft dose reconstruction is completed by a
2 health physicist, and that includes a peer
3 review within the structure. If it's a
4 contractor who's providing the dose
5 reconstruction, they have a peer review process
6 that the draft is put through. And then there
7 is a technical review of that dose
8 reconstruction done at NIOSH by NIOSH/OCAS
9 health physics staff. And then there is an
10 OCAS approval where the -- the senior
11 leadership and management of OCAS approve the
12 final dose reconstruction. So we -- we have
13 that in place.

14 There's quality assurance programs in place
15 that identify, document and correct program
16 deficiencies. An example of these would be our
17 evaluation of the individual cases where --
18 where we run the cases through an automated
19 program at night on our computers and they
20 identify certain typographical errors or issues
21 that -- that need to be brought to the
22 attention of our public health advisors. And
23 corrections or steps are taken to make those
24 corrections made where we find deficiencies in
25 the information that is given to us.

1 By the way, our public health advisors are next
2 door. They are holding interviews. This is
3 typical to what we do at each meeting, and so
4 we're seeing quite a few claimants come in to
5 avail themselves of that opportunity.

6 There are mechanisms that are in place in our
7 quality assurance and quality control programs
8 that ensure that corrective actions are
9 implemented to correct any problems or any
10 deficiencies or any reoccurrence of a problem
11 that -- that we may have experienced. All
12 findings and all concerns that are identified
13 in our internal assessments require that there
14 is a documented corrective action plan in
15 place, and these can be viewed.

16 We track and we trend the performance, and the
17 feedback channels are put in place to let folks
18 know how they're doing with regard to the
19 quality of their work.

20 2007 was a tough year. It was a tough year
21 because we went through a series of continuing
22 resolutions which impeded our budget and
23 funding of our contract support folks. We --
24 we have seen our tech-- prime technical support
25 contractor, ORAU and their teaming partners, go

1 through a very difficult time where lately
2 we've been working with about an every, you
3 know, three or four-week time frame to put more
4 money into their contract to keep momentum
5 going. We can't infuse the whole contract to
6 gain capacity, as we would like, because we're
7 limited under a continuing resolution process
8 with looking at a daily expenditure rate based
9 upon a prior year, not recognizing that we have
10 additional work that needs to be done that we
11 didn't have the prior year. So this has been
12 very problematic and I can't say enough about
13 our contractors and the support they've given
14 us during the difficult times, but 2007 sure
15 didn't leave us -- the Fiscal Year 2007 didn't
16 leave us where we expected to be. We really
17 thought we would be at a steady state where we
18 defined steady state as no claim in our
19 holdings over a year old, and we didn't make
20 that. So again, we'll set new goals and do
21 everything we can to try to achieve those
22 goals.

23 Let's see, I didn't talk about this, this --
24 there's an automated program -- I did mention
25 that in the other slide. I'll just pass over

1 that.

2 Let me finish up here with where we're at with
3 our contract award process. There was a
4 Request for Proposal -- this goes out in the
5 (unintelligible) business daily, and people can
6 look at that and provide proposals against
7 that. That happened in May -- May of 2007 and
8 the proposals were all due back in June, by
9 June 15th, 2007. One might say well, why is it
10 taking so long? Well, there's an extensive
11 evaluation process that -- that is ongoing,
12 still ongoing. We have a technical review
13 panel at NIOSH that looks at the technical
14 merits of each proposal, and then a program
15 grants office has another set of reviews that
16 have to occur, and that's the final stage and
17 that's where we're at right now. The program
18 grants office -- procurement grants office is
19 working through the last efforts on their
20 review.

21 To avoid interruption in service and -- and to
22 provide continuity of service to the government
23 and to these claimants, the ORAU contract has
24 been continuously extended. It originally
25 expired in September 11th, 2007 and we've -- I

1 don't know how many mod-- we call them contract
2 mods to extend them, but we must have done six
3 or eight now since September. And that, again,
4 goes back to the difficulty we've had in just
5 maintaining a level of effort, a capacity
6 level, if you will, of the work that needs to
7 be done.

8 I think that concludes my presentation. I'd be
9 happy to answer questions if you'd like.

10 **DR. ZIEMER:** Well, thank you very much, Larry.
11 Dr. Melius has a question.

12 **DR. MELIUS:** Yeah, but -- actually a number of
13 questions. First one is on that slide -- can
14 you explain the third bullet? I'm just --
15 response to review -- is it...

16 **MR. ELLIOTT:** Well, part of the process is we -
17 - each of the proposers are enabled to ask
18 questions about the scope of work, about the --
19 the request for proposals.

20 **DR. MELIUS:** So -- so it's --

21 **MR. ELLIOTT:** And based on those questions, we
22 realized -- as well as we were in a -- a
23 situation at that point in time where we
24 realized hey, we're going to have more PERs,
25 we're going to have -- it looks like we're

1 going to have more SEC stuff going on, we've
2 got legacy cases we want to treat separate from
3 current cases, and so we revised -- based on
4 the questions and based upon the circumstances
5 at the time, we amended the -- the scope --

6 **DR. MELIUS:** Okay.

7 **MR. ELLIOTT:** -- so that all proposers could
8 bid on the same scope of work. These questions
9 are traded so that the answers that are given
10 to the questions are shared with all proposers.
11 Does --

12 **DR. MELIUS:** Yeah, so --

13 **MR. ELLIOTT:** -- that help?

14 **DR. MELIUS:** Yeah, so it's really to proposers'
15 questions. I was thinking it was somehow the
16 reviewers, people reviewing the proposals --

17 **MR. ELLIOTT:** Well, yeah, that happens, too.
18 The review -- this says the reviewers'
19 questions, and that -- that happens, too. Our
20 reviewers come up with a set of questions for a
21 given proposal that result in oh, well, let's
22 make it a level playing field for all
23 proposers, and we'll tell the other proposers
24 what the --

25 **DR. MELIUS:** Okay.

1 **MR. ELLIOTT:** -- what the reviewers' question
2 was, so --

3 **DR. MELIUS:** Okay.

4 **MR. ELLIOTT:** -- there -- there's a two-edged
5 sword here, and I believe this bullet says it
6 was the reviewers' questions resulted in
7 amended proposals.

8 **DR. MELIUS:** Right. My second question's
9 regards Department of Energy. We've had
10 problems, particularly at the Hanford site,
11 because of the continuing resolution in terms
12 of access to data. Is that now resolved or
13 being resolved? Can you tell me the status of
14 that, or is that something I should ask --

15 **MR. ELLIOTT:** We're working with --

16 **DR. MELIUS:** -- DOE tomorrow?

17 **MR. ELLIOTT:** We're working with Department of
18 Energy on those -- those issues of -- they,
19 too, are feeling the brunt of continuing
20 resolutions and limited resources to put at a
21 problem. We've worked with DOE and we've
22 worked with SC&A to help prioritize the
23 requests that we have in front of Hanford
24 folks. I've not had a briefing of late that
25 says there's not progress there, so I'm hoping

1 we're on the -- we're now going to be in a new
2 -- you know, we're not going to be under a
3 continuing resolution. We're going to soon be
4 under an omnibus where all of the money for a
5 given year will be allowed to be committed.

6 **DR. MELIUS:** As of 4:00 o'clock Friday in a
7 call with your staff, I don't think people knew
8 the status and whether it was resolved or not,
9 so I'd appreciate --

10 **MR. ELLIOTT:** Well --

11 **DR. MELIUS:** -- appreciate knowing whether it's
12 being resolved or isn't being resolved and what
13 the timetable for that is then. I mean is --

14 **MR. ELLIOTT:** That may be a better question to
15 ask DOE right now, I --

16 **DR. MELIUS:** Oh, okay. Well --

17 **MR. ELLIOTT:** I don't know.

18 **DR. MELIUS:** -- (unintelligible) about that.
19 My --

20 **MR. ELLIOTT:** I haven't been told that we -- we
21 -- we've run into a major obstacle right now.

22 **DR. MELIUS:** Yeah, okay. Well --

23 **MR. ELLIOTT:** Nor have I heard from SC&A that
24 there's a major obstacle.

25 **DR. MELIUS:** The -- the -- your staff was going

1 to check and try to figure out -- I -- do that.
2 My third question is regarding the -- the first
3 5,000. My -- my recollection, either from the
4 hearing or possibly from some subsequent
5 discussions, were that you were going to look
6 at those initial 59 that are left over -- you
7 know, from the initial five -- 59 among the
8 first 5,000, to look at issues related to
9 whether they were -- I thought they were going
10 -- actually going to be turned into 83.14s was
11 the --

12 **MR. ELLIOTT:** Nobody made a commitment to that.
13 We are looking at those 44 with regard to what
14 can be done to move them through the process.
15 If there is an 83.14 situation there, that's
16 the way they'll be processed. If there is a
17 dose reconstruction approach that's available
18 to us, that's the way they'll be processed.

19 **DR. MELIUS:** So for the record, those go back
20 what, five years now that those --

21 **MR. ELLIOTT:** Those -- those --

22 **DR. MELIUS:** -- requests --

23 **MR. ELLIOTT:** -- 44 that are still hanging out
24 there --

25 **DR. MELIUS:** Yeah.

1 **MR. ELLIOTT:** -- yeah, some of them go back --

2 **DR. MELIUS:** Okay.

3 **MR. ELLIOTT:** -- a good ways. They're older
4 than we want them to be.

5 **DR. MELIUS:** Well, yeah. Not a question but a
6 comment. I mean I -- that really is, I think,
7 to the point of absurdity now that someone
8 cannot get a answer to their -- get their pro--
9 claim processed in over five years in this
10 program, and I think it --

11 **MR. ELLIOTT:** Duly noted.

12 **DR. MELIUS:** -- certainly would call for a re-
13 look at -- and -- at -- at the whole -- whole
14 process and -- and why that can't take place.
15 My final question is regarding the QA/QC
16 program. I believe that early on in this
17 Board's lifetime we -- we took a look at your
18 QA/QC process, I think produced a short report
19 with some recommendations. At that time it was
20 in the process of being developed, many of the
21 procedures, and -- and so forth. And I think -
22 - I mean I share with you that it's an
23 important part of the process and -- and I
24 think it would be worthy of some time spent by
25 this Board in -- in looking at that process

1 again now that it's matured and -- and is -- is
2 in place because in some ways it's I think a
3 very important safeguard to --

4 **MR. ELLIOTT:** I agree.

5 **DR. MELIUS:** -- what goes on, so I -- I would
6 certainly put forward that's something to be
7 considered for, you know, further -- in more
8 detailed presentation at -- at one of our
9 upcoming meetings and think it would be you --
10 useful and helpful.

11 **MR. ELLIOTT:** We can certainly devote a special
12 presentation on QA/QC.

13 **DR. ZIEMER:** Let me jump in here just a moment,
14 Jim, and ask Larry -- are the QA/Q-- is the
15 QA/QC process enveloped in specific procedures
16 that, for exam--

17 **MR. ELLIOTT:** They are in some instances, and
18 those are -- those can be reviewed, if they
19 haven't been reviewed.

20 **DR. ZIEMER:** Because if -- if they are, perhaps
21 Wanda's workgroup might be in a position to
22 look at those as a starting point. I don't
23 think we've looked at any QA/QC procedures.

24 **DR. WADE:** Perhaps we can start with NIOSH
25 making a presentation --

1 **MS. MUNN:** We haven't.

2 **DR. WADE:** -- of the overall process.

3 **MR. ELLIOTT:** Yeah, I think that would be good,
4 because some procedures that don't speak to QA
5 have a QA/QC component.

6 **DR. ZIEMER:** Right, so some may have been
7 covered indirectly with -- yes.

8 **DR. MELIUS:** Since Wanda didn't slap me around
9 when I mentioned that, I figured I was okay,
10 but I -- I agree that I'm -- I think starting
11 with an overview makes sense and -- not
12 proposing a full-scale review or anything at
13 this point 'cause -- again, very well some of
14 it may be covered in procedures, some of it --

15 **MR. ELLIOTT:** We -- we would --

16 **DR. MELIUS:** -- may not even be warranted, but
17 -- but I think we really should try to
18 understand where that process is now and -- and
19 context. I also think it has some implications
20 for our review of individual dose
21 reconstructions and what we focus on in -- in
22 that process also and we ought to --

23 **MR. ELLIOTT:** We'd be --

24 **DR. MELIUS:** -- do that, yeah.

25 **MR. ELLIOTT:** -- happy to do that. We'd

1 welcome your review of that. I think we hear a
2 lot of public comment about letters that are
3 inaccurate or misplaced and -- and we want to
4 be able to stand up and say, you know, those
5 are our letters, we'll take responsibility for
6 those. If they're not our letters, we're not -
7 - you know, we're going to help work with the
8 claimant to get the right -- the right party
9 involved to get the corrections made.

10 **DR. WADE:** So I'll pencil that in for the April
11 meeting.

12 **MR. ELLIOTT:** Okay.

13 **DR. ZIEMER:** Did that complete --

14 **DR. MELIUS:** That was my four, yep.

15 **DR. ZIEMER:** Thank you. Then we have Josie.

16 **MS. BEACH:** Larry, I just have a question on
17 the automated program on slide 18.

18 **MR. ELLIOTT:** Uh-huh.

19 **MS. BEACH:** Can you give me an idea of what
20 percentage of the potential discrepancies that
21 catches, and is that a procedure-driven?

22 **MR. ELLIOTT:** I -- I'll have to get back to you
23 on -- with an answer on that question. I don't
24 have the numbers right here at my disposal, and
25 I believe yes, there is -- I believe there's a

1 procedure --

2 **MR. GRIFFON:** Do you know --

3 **DR. ZIEMER:** We'll follow up --

4 **MR. ELLIOTT:** We'll have to do that. But yeah
5 --

6 **DR. ZIEMER:** -- on this issue. Mark?

7 **MR. GRIFFON:** Yeah, just --

8 **MR. ELLIOTT:** -- it's -- it's automated, so you
9 know, I'll have to -- I'll have to get back to
10 you with an answer.

11 **MS. BEACH:** Is --

12 **MR. GRIFFON:** Along the same lines -- I was
13 going to follow up on that -- you mentioned 55
14 discrepancies that it -- the automated program
15 checks for --

16 **MR. ELLIOTT:** The 55 individual things it
17 checks.

18 **MR. GRIFFON:** For example, do you know what --
19 I mean can you give me an example of --

20 **MR. ELLIOTT:** Date of birth wrong --

21 **MR. GRIFFON:** Okay.

22 **MR. ELLIOTT:** -- name's wrong, you know, is the
23 cancer and the ICD code compatible.

24 **MR. GRIFFON:** Okay.

25 **MR. ELLIOTT:** Those are the kind of automated

1 checks that go on in this system, and that's
2 something we can certainly make a presentation
3 on in this -- this overview.

4 **MR. GRIFFON:** Thank you.

5 **MS. BEACH:** And one more question, is that part
6 of your QA system?

7 **MR. ELLIOTT:** Yes.

8 **DR. ZIEMER:** Other comments, questions?

9 (No responses)

10 Okay, thank you very much, Larry. We
11 appreciate the update, as usual.

12 We will have a 15-minute break, after which we
13 will have a public comment period from 5:00 to
14 6:00.

15 (Whereupon, a recess was taken from 4:43 p.m.
16 to 5:00 p.m.)

17 **PUBLIC COMMENT**

18 **DR. WADE:** (Reading) Policy on Redaction of Board
19 Meeting Transcripts

20 (Public Comment)

21 1.If a person making a comment gives his or her name,
22 no attempt will be made to redact that name.

23 2.NIOSH will take reasonable steps to ensure that
24 individuals making public comment are aware of
25 the fact that their comments (including their

1 name, if provided) will appear in a transcript
2 of the meeting posted on a public web site.

3 Such reasonable steps include:

4 a. A statement read at the start of each public
5 comment period stating that transcripts
6 will be posted and names of speakers
7 will not be redacted;

8 b. A printed copy of the statement mentioned in (a)
9 above will be displayed on the table
10 where individuals sign up to make public
11 comment;

12 c. A statement such as outlined in (a) above will also
13 appear with the agenda for a Board
14 meeting when it is posted on the NIOSH
15 web site;

16 d. A statement such as in (a) above will appear in the
17 Federal Register Notice that announces
18 Board and Subcommittee meetings.

19 3. If an individual in making a statement reveals
20 personal information (e.g., medical
21 information) about themselves, that information
22 will not usually be redacted. The NIOSH FOIA
23 coordinator will, however, review such
24 revelations in accordance with the Freedom of
25 Information Act and the Federal Advisory

1 Committee Act and, if deemed appropriate, will
2 redact such information.

3 All disclosures of information concerning third
4 parties will be redacted.

5 If it comes to the attention of the Designated
6 Federal Official -- that's me -- that an
7 individual wishes to share information with the
8 Board but objects to doing so in a public
9 forum, I will work with that individual in
10 accordance with the Federal Advisory Committee
11 Act to find a way that the Board can hear such
12 comments.

13 **DR. ZIEMER:** Okay. Thank you very much. With
14 that, let us begin then with Antoinette
15 Bonsignore, if I pronounce it --

16 **DR. WADE:** Bonsignor, uh-huh.

17 **DR. ZIEMER:** -- Bonsignor, I think representing
18 Linde.

19 **MS. BONSIGNORE:** Good afternoon, everyone. I'm
20 Antoinette Bonsignore. I'm representing the
21 Linde Ceramics facility in Tonawanda, New York.
22 And I'm here to discuss an issue that -- that
23 came to light on September 5th of this year
24 when the Department of Labor issued a bulletin
25 that has redesignated four of the five MED

1 buildings from the operational period at Linda
2 in the 1940s. And as a result of this
3 redesignation, these four buildings have been
4 redesignated from an AWE facility to a DOE
5 facility, and as a consequence of that, any of
6 the workers who worked in those buildings
7 during the residual radiation time period,
8 which is from 1954 to the present, are no
9 longer eligible to pursue claims under the Part
10 B program, either under the dose reconstruction
11 program or under a Special Exposure Cohort
12 petition that was being prepared for the
13 residual radiation time period. And the only
14 building that remains defined as an AWE
15 facility for that residual time period is one
16 building, Building 14. And as a result, the
17 workers that I have been representing over the
18 past three years have been effectively
19 eliminated from even elig-- eligibility to
20 submit claims for any radiogenic cancers that
21 they are pursuing under the Part B program.
22 And I -- I -- I'm here to express their
23 unequivocal objection to this redesignation on
24 a number of points, primarily because, first of
25 all, the bulletin was issued without any notice

1 to any representatives fro-- from the facility,
2 any of the work-- none of the workers had been
3 notified that anything like this was happening,
4 not wa-- was anyone who was in the middle of
5 appealing a claim that may be affected by this
6 redesignation provided any notice. And more
7 importantly, the bulletin that was posted on
8 the Department of Labor's web site is a very --
9 a very superficial document that does not
10 provide any -- any explanation as to the
11 reasoning behind the redesignation, any kind of
12 legal reasoning, any kind of technical
13 reasoning in terms of the residual radiation in
14 those four buildings as opposed to the one
15 remaining building. And we simply ask the
16 Board to evaluate this -- this situation in
17 light of the fact that the Linde claimants
18 simply are in a state of limbo and have been
19 blindsided by this decision, and we simply
20 don't know what exactly NIOSH is going to do in
21 reaction to this bulletin, whether this
22 bulletin will be used as a discretionary
23 document, whether NIOSH is legally required to
24 adhere to this decision, whether there is any
25 opportunity or -- or possibility for an appeal

1 of this decision, or whether the decision is
2 final and there's no -- no opportunity for any
3 type of appeal from any claimant or from anyone
4 representing the claimants.

5 **DR. ZIEMER:** Thank you. I -- I do want to ask
6 if any of the NIOSH people can answer that last
7 question. I -- I think I know the answer to it
8 and I think the -- I think it is a DOE and DOL
9 issue. I -- I don't think NIOSH has a sort of
10 an option or discretion on this, but I don't
11 know if -- if Larry is here or if legal counsel
12 from NIOSH is here that could answer that.

13 **DR. WADE:** Well, I think --

14 **DR. ZIEMER:** Liz, I don't know if you heard
15 that question or not.

16 **MS. HOMOKI-TITUS:** Sorry, I did not hear.

17 **DR. ZIEMER:** The question was whether or not
18 the -- the redesignation of the -- the -- part
19 of the Linde facilities by Labor and -- and DOE
20 -- if that decision -- following it is
21 discretionary on the part of NIOSH. I said I
22 didn't believe NIOSH has the discretion to
23 ignore that, that they have to follow that
24 designation. Is that not correct?

25 **MS. HOMOKI-TITUS:** That is correct. NIOSH

1 would be bound by Department of
2 Labor/Department of Energy's decision there
3 because that is specifically delegated to those
4 departments.

5 **DR. ZIEMER:** Yeah, so it -- it may -- as a
6 first step, may be very important for -- for
7 you, in representing those petitioners, to make
8 that view also known both to -- I mean it sort
9 of indirectly gets known through this, but I
10 mean to formally make sure that both Labor and
11 -- and DOE hear -- I -- I would say directly
12 from you, as well.

13 **MS. BONSIGNORE:** Thank you. And -- and in
14 light of that, since representatives from NIOSH
15 are here, what are -- what if any options do we
16 have in terms of appealing that decision or
17 having that decision reviewed by any -- anybody
18 at the Department of Labor or at the Department
19 of Energy?

20 **DR. ZIEMER:** Let me ask if any of the Labor
21 representatives here know the answer to that --
22 or Liz, can you address it at all?

23 Okay, Liz, on behalf of NIOSH --

24 **MR. CLAWSON:** Dr. Ziemer --

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

1 **MR. CLAWSON:** -- they're both out in the
2 hallway and I sent Sam out there --

3 **MS. HOMOKI-TITUS:** I was going to say I'm not
4 sure I can give an answer. All I can tell you
5 is that would be a Department of Labor or
6 Department of Energy -- that wouldn't be
7 appropriate for this Board or NIOSH to address.

8 **DR. ZIEMER:** We'll -- we'll try to -- to get
9 you together with -- at least with Jeff from
10 Labor, and maybe he can give you an answer, so
11 --

12 **MS. BONSIGNORE:** I -- I woul-- I've -- I would
13 appreciate that because I've been having --

14 **DR. ZIEMER:** 'Cause I -- I don't know myself
15 and I'm not sure even the NIOSH people know
16 exactly what the appeal process is. Larry,
17 were you going to speak to this or...

18 **MR. ELLIOTT:** I'm sorry, I was out of the room.

19 **DR. ZIEMER:** The question was really on the
20 redesignation of Linde, which is done by DOE
21 and DOL --

22 **MR. ELLIOTT:** Right, that's the AWE to DOE or
23 DOE to AWE, I --

24 **DR. ZIEMER:** Yeah, but --

25 **DR. WADE:** AWE to DOE.

1 **DR. ZIEMER:** -- does -- does Labor have an
2 appeal process for that? I said I don't think
3 we know.

4 **MR. ELLIOTT:** You'd have to talk to Labor about
5 this particular decision.

6 **DR. ZIEMER:** Yeah, we need to get her together
7 with Jeff, if he's still around.

8 **DR. WADE:** I would also suggest that when the
9 representatives of Labor and Energy speak to
10 this Board tomorrow, if a Board member would
11 like to raise the question I think that would
12 be appropriate.

13 **MS. BONSIGNORE:** I -- I -- I won't --
14 unfortunately will not be available here
15 tomorrow. When -- can -- could I get some idea
16 as to when that discussion would occur before
17 the Board so I could --

18 **DR. WADE:** It's scheduled right now for between
19 1:30 and 3:30 tomorrow, Wednesday.

20 **MS. BONSIGNORE:** Okay. And finally, I'd like
21 to submit a written statement for the record.

22 **DR. ZIEMER:** Sure.

23 **DR. WADE:** Thank you.

24 **MS. BONSIGNORE:** Thank you. Thank you very
25 much.

1 **DR. ZIEMER:** Sherman Jenkins, Lawrence
2 Livermore. Sherman?

3 **MR. JENKINS:** My name is Sherman Jenkins and I
4 was at Lawrence Livermore for 32 years; I'm
5 retired. I'd just like to point out something
6 that I found, and that is that -- not just at
7 Livermore but at a number of sites -- the data
8 from the monitors -- site monitor, radiation
9 monitors and the personal de-- dosimeters have,
10 over apparently many periods of time, been
11 lost. They've been adjusted. And from the
12 records that I see from -- on the computer and
13 from your records, very little in-- information
14 that would pertain to that or that would
15 address that. And it seems to me that it's
16 kind of systemic, and I -- I'm going to be
17 looking to see if you address it any further.

18 **DR. WADE:** Okay.

19 **DR. ZIEMER:** Okay. Thank you. Dan McKeel, and
20 Dan represents several groups, but -- Dr.
21 McKeel, welcome.

22 **DR. MCKEEL:** Thank you, Dr. Ziemer. I can't
23 get that down. Anyway, good afternoon, I'm Dan
24 McKeel. I -- tonight I'm representing the
25 Southern Illinois Nuclear Workers, and my

1 comments tonight focus on the Board's reduc--
2 revised redaction policy which was posted on
3 OCAS on December the 12th and on the status of
4 General Steel Industries dose reconstructions.
5 With respect to the redaction policy -- get
6 this down where you can hear me -- comments
7 from Board members during the November 27th
8 conference ca--

9 **DR. ZIEMER:** Dan, there's another thing down
10 lower, you can just -- yeah, get that down --
11 there you go.

12 **DR. MCKEEL:** Great, all right. Terrific.
13 Comments from the Board members during the
14 November 27th conference call indicated
15 approval of this redaction policy without need
16 for modifications of it. The policy was posted
17 on OCAS, as I said, on December the 12th of
18 last year. In the November meeting the
19 sentiment was expressed by several Board
20 members that the revision should satisfy those
21 objecting to the new policy. Since I was one
22 of the lead people for this issue, I need to
23 respond to make our remaining concerns known to
24 the Board.

25 First, there is no proposed remedy for those

1 transcripts that have already been redacted.
2 The April 19th and 30th workgroup and the May
3 2nd through 4th, 2007 and June 11th through
4 12th full meeting transcripts were affected.
5 The fully July 17th through 19th, 2007 Board
6 meeting transcripts have not yet been posted on
7 OCAS. The July 17 subcommittee transcript was
8 redacted. The October 7 to 9 Board transcripts
9 were posted and have not been redacted. A link
10 to the November the 27th teleconference meeting
11 transcript was posted on January (sic) the
12 24th, was inoperative as of this morning,
13 January the 8th. Thus it is unclear whether or
14 not the July full meeting transcripts will or
15 will not be redacted. I wonder why the July
16 Board transcripts have been delayed, as I
17 understood Dr. Ziemer to say they'd all been
18 received from the court reporter, Ray Green,
19 during the November 27th meeting.
20 Second, because the redaction transcripts have
21 not been restored to their unredacted form, the
22 public record for the redacted period remains
23 incomplete and inaccurate. The omission of
24 participant names, those who make public
25 comments, and the names of the Dow and Rocky

1 Flats SEC petitioners and workers commenting on
2 the SEC petitions is a gap in the official
3 historical record of the ABRWH proceedings.
4 Personally, I do not want the record left this
5 way because I believe the original policy was
6 improper, for reasons our group has previously
7 communicated to the Board and to the Senate
8 Health Committee in detail.
9 Third, the redaction policy posted on OCAS
10 mentions public comments only, whereas the
11 redaction process was also applied to the
12 participant list and to my DOW SEC presentation
13 on May the 4th, 2007.
14 Fourth, although I and our advocates group have
15 repeatedly asked for the sources of the
16 original redaction policy to be identified,
17 this has not happened. We continue to believe
18 this is very important, both for this program
19 to be perceived as transparent and because
20 several sources have been identified. One was
21 the Board itself. Another were staff members
22 at HHS, CDC and NIOSH. And the third was the
23 CDC ATSDR FOIA office in Atlanta. This
24 confusion needs to be clarified as to the
25 correct attribution of the original redaction

1 policy.

2 Then I had just a few comments about the G--
3 General Steel Industries. The main area of
4 concern for GSI is the urgency of obtaining the
5 SC&A review of Appendix BB and their review of
6 the detailed comments that I made and [name
7 redacted] made of Appendix BB. It should be
8 noted that our names were also redacted from
9 the versions of their Appendix BB critiques
10 posted on OCAS. I want this redaction reversed
11 as well. The impact and acceptance of these
12 concerns are reduced by having our names
13 omitted. Again, this redaction policy is
14 contrary to our intentions. The Appendix BB
15 scientific critiques are a form of public
16 comment. NIOSH in fact solicits comments from
17 the public pertinent to its technical documents
18 on the public docket portion of the OCAS web
19 site.

20 We are aware of at least five GSI claims with
21 POCs in the 48 to 49 percent-plus range. We
22 urgently need to have released the results of
23 the review of the GSI Appendix BB that the
24 Board tasked SC&A to perform. During the SC&A
25 satellite meeting before the October 9th, 2007

1 NIOSH outreach meeting in Collinsville,
2 Illinois for GSI workers, a consensus was
3 worked out that the average GSI work week was
4 65 hours rather than the 46-hour average that
5 NIOSH has used in GSI dose reconstructions thus
6 far. This fact, coupled with the inclusion of
7 a neutron dose, the added dose from the three
8 high MeV gamma sources, the fact that not one
9 but four two-hour Betatron exposures were
10 required to generate X-ray images of
11 Mallinckrodt uranium, collectively may well be
12 sufficient to have many of these borderline
13 POCs pushed to or over the 50 percent
14 compensation cutoff limit.

15 We also look forward to receiving the minutes
16 of the two October 9th, 2007 Collinsville
17 meetings for the GSI workers, and we await the
18 results of the application of PER-24 that
19 applies to some GSI claims submitted by workers
20 from the sister Granite City Steel site.

21 We have not yet gotten an answer whether NIOSH
22 or SC&A have retrieved and reviewed the
23 Landauer, Incorporated film badge dosimetry
24 data on 30 GSI workers, and that data applies
25 to the year 1963 to 1973.

1 Thank you very much, and I -- I do have a copy
2 of these remarks for the Chairman.

3 **DR. ZIEMER:** Thank you very much, Dr. McKeel.
4 Incidentally, we -- we will have on Thursday --
5 let me look here -- an -- an update -- I myself
6 had hoped that we would have a -- the report
7 from our contractor on GSI, and I know that
8 SC&A had hoped to finish that report prior to
9 this meeting. It is -- the draft is very close
10 to completion. We will get a report on the
11 status of that tomorrow, and hopefully we will
12 all have --

13 **DR. MCKEEL:** Well, good.

14 **DR. ZIEMER:** -- that draft very soon.

15 **DR. MCKEEL:** I didn't realize that that was on
16 the agenda.

17 **DR. ZIEMER:** Well, it is, because we -- we have
18 -- we will have an update on all of our --

19 **DR. MCKEEL:** Good.

20 **DR. ZIEMER:** -- various workgroups and so on,
21 so --

22 **DR. MCKEEL:** That's great.

23 **DR. ZIEMER:** -- I've asked John Mauro -- is
24 John here in the room? And -- well, it's all
25 right, Arjun. John has asked the author of

1 that report to be with us by phone to -- on
2 Thursday to give us a report, at least on the
3 status of the SC&A review of the GSI program,
4 so --

5 **DR. MCKEEL:** Tha-- that's excellent.

6 **DR. ZIEMER:** Yeah.

7 **DR. MCKEEL:** Thank you.

8 **DR. MELIUS:** Paul?

9 **DR. ZIEMER:** Yes?

10 **DR. MELIUS:** In our -- I see in our Board
11 working time on the agenda for Thursday there's
12 also further discussion of redaction and
13 transcripts and minutes, so will that be those
14 -- I mean I'd like to get an answer to some of
15 these questions that Dan's had, so...

16 **DR. ZIEMER:** Yes, and --

17 **DR. WADE:** That will be the time.

18 **DR. ZIEMER:** -- that would be a good time --

19 **DR. MELIUS:** Okay.

20 **DR. ZIEMER:** -- I -- I think the concerns that
21 were raised are recognized by many on the Board
22 as well.

23 **DR. MELIUS:** Thanks.

24 **DR. ZIEMER:** Dr. McKeel is a very patient
25 person and will have to continue to be patient

1 and we'll see what can -- can come of it here.
2 Patty Cook.

3 **MS. COOK:** Good evening, Dr. Zimmer (sic) and
4 members of the Board. I am Patricia Cook,
5 claimant [identifying information redacted].
6 My mom worked at NRDS for PanAm August 1963 to
7 December 1970. I would like to comment on a
8 few more of the experiences I've had with NIOSH
9 and DOL -- thank you -- which further shows
10 claimant unfriendliness.

11 The last time the Board was here in Las Vegas,
12 after the public comments Larry Elliott sat
13 right in front of me and turned around to me
14 and said he would reopen my mom's file. After
15 six months went by I sent him an e-mail for an
16 update. This was the response I received.
17 (Reading) Dear Ms. Cook, my notes from Las
18 Vegas meeting indicate that I committed to look
19 into your claim to verify whether the phone
20 interview was lost and not included in the
21 record for the claim. This was relative to
22 your comment that the interviewer was sloppy
23 and lost the record of the interview, and that
24 the interviewer had been fired for this. I did
25 find the interview report included in the claim

1 file. My apologize -- apologies for not
2 letting you know the outcome of my review.
3 Also I am sorry if you were confused about a
4 reopening of the claim. I did not commit to a
5 reopening. An issue of an interview report not
6 being in the claim file is not cause to reopen
7 a claim; thus I would not commit to such. Be
8 that as it may, I do not see anything in the
9 claim file that leads me to believe that
10 something was done improperly in the dose
11 reconstruction that would merit reopening of
12 the dose reconstruction. Our work on your
13 claim provides a scientific basis to say that
14 your mother's cancer was caused by something
15 other than radiation exposure she encountered
16 at the Nevada Test Site. Respectfully, Larry.
17 I find this very rude and condescending,
18 telling me that I must be confused. If he
19 could not have reopened the case, then he sure
20 did a good job of misrepresentation. I also
21 asked for a total administration file on disk,
22 which I believe every claimant should request
23 from NIOSH. I did receive it.
24 My mother died of multiple myeloma. I had
25 given all the doctor's diagnosis way in advance

1 from 2001. Until I received my first DR in May
2 2005 there was never a question that multiple
3 myeloma wasn't her primary cancer. I hit the
4 roof when I saw the primary cancer was deleted
5 by a person from the Department of Labor.
6 Because of this wrong diagnosis, I had to start
7 over with another phone interview after
8 Department of Labor informed NIOSH that there
9 was -- indeed was medical evidence that the
10 primary cancer was myeloma. The second dose
11 reconstruction was ordered, and they changed
12 the primary cancer to the myeloma and put the
13 lung cancer as secondary, like it should have
14 been from the start.
15 As I went through the documents on my disk that
16 I received from NIOSH, I received it this
17 April, I found two e-mails. The first one was
18 dated December 2nd, 2003. This is about the
19 time they started the first dose re--
20 reconstruction. This looks like an internal e-
21 mail. It says (reading) Chris, I sent you an
22 ANRSD (sic) deleting the multiple myeloma only.
23 I did not delete the secondary bone cancer.
24 The bone cancer still stands as the secondary
25 because there is no identified primary. It is

1 my understanding that we are to report the
2 secondary cancers when there is no primary.

3 Thanks, Ann.

4 Ann writes back (reading) Received ANSRD (sic)
5 today deleting the secondary cancer. There is
6 no primary cancer listed. Please advise.

7 Should the claim be pulled or provide primary
8 cancer information. Thanks, Chris -- Chris
9 Negell*.

10 So the multiple myeloma had been removed back
11 in 2003. Now all these years I thought it was
12 still the primary until I received my first
13 dose reconstruction in 2005. Why did
14 Department of Labor remove the myeloma in the
15 first place? From what I understand,
16 Department of Labor -- their role in the dose
17 reconstruction process is to plug the numbers
18 into the IREP model only, not delete primary
19 cancers. Department of Labor is the reason why
20 the first DR didn't have its primary -- didn't
21 have the myeloma as its primary.

22 Then there is a second e-mail dated August
23 17th, 2005. This is the time the second dose
24 reconstruction was started because I said they
25 had the cancers wrong. This is dated August

1 17th, 2005. (Reading) Stu, I have reviewed
2 information from the Seattle DO regarding the
3 DR for Irene Halverson*. Ms. Halverson was
4 employed at the Nevada Test Site from -- dates
5 and dates. The DR was performed for secondary
6 bone cancer with the lung as the assumed
7 primary cancer site diagnosed 3/19/97 -- oh,
8 correct that date, February 1997. The
9 resultant POC was 25.01 percent. Upon further
10 review of the medical information of the case
11 file, the DO was determined that the medical
12 evidence supports the primary cancer for the
13 metastatic bone cancer is multiple myeloma,
14 ICD-9 Code 203, not the lung cancer as
15 previously assumed. We are requesting that
16 NIOSH rerun the dose reconstruction to reflect
17 the correct primary cancer, multiple myeloma,
18 203, diagnosed 2/19. The Seattle DO will
19 forward an amended NRSD to NIOSH shortly with
20 the information discussed above accordingly. I
21 am asking for a rework of this DR.
22 No coincidence that this is when I told them
23 that they had made a mistake on the first DR.
24 And the second DR came back showing that the
25 multiple myeloma as primary. Now we have a

1 very big problem here. This looks to me like
2 intentional attempt to change the facts in my
3 mother's records. I won't accept that either
4 one of these DRs is accurate. I think it's
5 more than just sloppy work. It's deliberate
6 tampering.

7 Plus this site profiles have many mistakes in
8 them that are well acknowledged by DOL. Right
9 here in our local review journal -- God bless
10 [name redacted] -- not just the Nevada Test
11 Site, but all of the other sites as well. For
12 example, the BREN tower was not included in
13 Area 25 at NRDS. That's huge. My case alone
14 is enough to cast doubts on NIOSH's ability to
15 reconstruct accurate dose reconstructions for
16 all claimants because of flawed data. Thank
17 you.

18 **DR. ZIEMER:** Okay. Thank you very much. Next,
19 Teri S-e-p--

20 **MS. SEPULVIDA:** Sepulvida.

21 **DR. ZIEMER:** -- Sepulvidz (sic), thank you,
22 Teri.

23 **MS. SEPULVIDA:** Hello. [name redacted] and I
24 have been attempting to receive compensation on
25 behalf of our deceased father, Robert

1 Sheltran*. He was a dedicated fireman at the
2 Test Site from August '85 to December of '89.
3 Before that he was a retired Captain for the
4 City of Las Vegas for 20 years. He worked for
5 REECO with Q clearance. He was a first
6 responder. He went when and where they called
7 him, no questions asked. No matter what caught
8 on fire -- grass, outbuildings, et cetera -- he
9 was there to respond, as all dedicated firemen
10 do.

11 He was diagnosed in August of 1990 with
12 polycythemia. In February of '91 he was
13 diagnosed with mouth cancer. Eight months
14 later, in October of '91, he passed away at the
15 age of 57. In -- excuse me. In January of '02
16 [name redacted] and I applied for compensation
17 through the program. Two years later, in June
18 of '04, we received our first denial based on a
19 probability of causation of 33.51 percent. We
20 of course appealed this decision to DOL. May
21 of '05 Department of Labor agreed with us and
22 remanded our case back to NIOSH based on a
23 revised dose reconstruction software for
24 polycythemia, and had noted that with this new
25 revision our probability of causation would be

1 above 50 percent. Two months later NIOSH
2 denied the remand and strangely recalculated
3 the probability of causation to 3.06 percent.
4 We appealed again in September of '05. We were
5 denied again almost a year later in August of
6 '06.

7 At this time we had asked for our case to be
8 reopened. At this time we attempted to find
9 more evidence to strengthen our case by
10 requesting fire incident reports at the Nevada
11 Test Site through the Freedom of Information
12 Act. We received a letter from the Department
13 of Energy regarding our request through Freedom
14 of Information, stating that the fire incident
15 reports were missing from 1987 through 1992.
16 May of 2007 we received our denial to reopen
17 our case. I've recently checked with the
18 Department of Energy, and they still do not
19 have these records.

20 Coincidentally, my case is being reopened -- or
21 so they say -- because of the super S plutonium
22 out there.

23 But my question to the Board is if I can't have
24 access to evidence in support of our claim, how
25 can they have evidence to the contrary? And I

1 do have copies of the letter from DOE for all
2 the Board members and a copy of an e-mail from
3 the person at DOE when they were trying to find
4 them.

5 **DR. ZIEMER:** Okay. Thank you very much. Next
6 we'll hear from Anne Snyder. Anne?

7 **UNIDENTIFIED:** (Off microphone)
8 (Unintelligible)

9 **DR. ZIEMER:** Okay. Then Dorothy Clayton.
10 Dorothy?

11 **MS. CLAYTON:** Yes, my -- my name is Dorothy
12 Clayton, and you may remember that I spoke
13 before the Board at the last meeting here in
14 Las Vegas. At that time I presented five years
15 of employment history, including declassified
16 records of -- that I had gotten from the DOE on
17 my husband's employment. My husband was Glenn
18 Clayton. He worked at the Nevada Test Site for
19 29 and a half years, and he died with six
20 different types of cancer.

21 In October of 1998 Glenn wrote a 10-page work
22 history which details the -- the -- a portion
23 of the work that he did in the tunnels where
24 the nuclear tests were conducted. The words of
25 a dying Nevada Test Site worker tells how he

1 and his crew and others worked in areas where
2 the level of radiation was extremely high.
3 Eight months after he wrote this, on June the
4 5th, 1999, Glenn died.

5 If I gave you a copy of this just to read, you
6 might doubt that his memory was -- was very
7 good. But several months after Glenn's death I
8 got 1,370 pages of declassified records from
9 the DOE and I -- if anyone from the DOE had
10 taken a close look at those records, I doubt
11 very much if they would have ended up in my
12 hands, but they did. So I brought some of the
13 -- I'd like to read just a couple of things
14 that -- that Glenn wrote in the work history,
15 and then show you some declassified radiation
16 monitor logbook records. They're handwritten,
17 and they all have been declassified.

18 But on page 1 of the work history Glenn says
19 (reading) We had very little success of
20 containment in the tunnels in the years from
21 1958 to 1968. During that period of time some
22 severe radiation problems existed for the
23 personnel.

24 Then talking about another one of the -- one of
25 the tests that he was involved in, he said all

1 of -- all of the ones working in there, they
2 worked in the very high radiation, and they got
3 quite a bit of exposure in that area. I won't
4 go into detail on these shots that he worked
5 on, but I -- on page 4 he talks about working
6 in E tunnel. He said they wanted to do some
7 mining re-entry -- "they" meaning LRL. He said
8 as we mined back through the Logan area we
9 encountered seams in stratus that were
10 exceeding three R, and our only means of
11 protecting ourself from the radiation was by
12 trying to put lead shielding over these areas.
13 In the logbook record, rad safe logbook record,
14 they report that there was a build-up of
15 contact reading on the floor of the work area
16 up to four R and LRL requested lead shielding
17 be put over the areas. This was the day shift
18 they were talking about. They -- and the next
19 notation was (reading) the swing shift were
20 round up same and bring out when they come.
21 Just a few lines down it said (reading) the
22 grave shift arrived and was briefed.
23 So we're looking at three different shifts here
24 that worked in high radiation area with no
25 protection, three crews.

1 Another notation they made up here, they were
2 informed of persistent rise in thyroid reading
3 on -- and I won't give the employee's name.
4 And on the next page they say (reading) there
5 is still an iodine problem deduced from samples
6 taken.
7 These are the rad safe logbooks. After that
8 Glenn went to B tunnel. (Reading) LRL, in
9 conjunction with Sandia, had determined they
10 wanted to create a sphere at the bottom of a
11 shaft which would be code named -- blank -- and
12 would be a five KT high-explosive test. One
13 thing that we encountered was that no one,
14 including rad safe, knew the amount of radon
15 thoron radiation. Later I was in the B tunnel
16 area when the rad safe monitor told us that the
17 radiation from radon thoron was exceeding
18 250,000 counts.
19 After that, LRL made a determination that they
20 wanted to re-enter the -- another area in B
21 tunnel. He said (reading) One thing we found
22 out much later was that the radiation we were
23 dealing with back in that tunnel, the
24 experimenters called "boil"*, but it was in
25 truth tritium, and it was at a very high level.

1 None of us were aware of this and we all got a
2 good dose of tritium. LRL had a crew taking
3 three urine samples each week, and they fed us
4 salt tablets to assist in getting the radiation
5 out of our system. Sometime after this, rad
6 safe, in conjunction with the AEC and others,
7 started giving us each a six-pack of beer to
8 drink after work.

9 He did another -- worked at E tunnel again, and
10 they -- where they had a secondary explosion
11 that blew out the portal, the rad safe monitor
12 reported that the water in the drainage pond
13 just off the dump at E tunnel was reading 72 R.
14 Shortly after that it was suggested by a rad
15 safe supervisor that he lose his film badge.
16 That was a common practice that they did during
17 that period of time when a worker would get so
18 much radiation in -- in -- like in a month's
19 time, they would tell them to lose their badge
20 or they would lose their job.

21 In the rad safe notes, someone had called from
22 the lab, LRL, and said that we should get some
23 lost film badge cards. Why do you think they
24 needed more cards?

25 I wanted to share these records with you

1 because they confirm the radiation hazards that
2 was present in the tunnels where these men
3 worked. Tonight in this room there are former
4 workers here who have cancer who can't get
5 their claims paid, and yet they were in Glenn's
6 crew, they worked with him. There are widows
7 here whose husbands worked right along with my
8 husband. They were in his crew. Their claims
9 have been denied. They're being denied mostly
10 probab-- because they can't get records like
11 this. After I got these and went to Washington
12 and lobbied for this program, the DOE stopped
13 giving out the records. They can -- and the
14 ones they give out now, like the radiation
15 exposure history, does not show the radiation
16 that these men got because I have the tests on
17 my husband's -- the urine tests, the nasal
18 swabs -- and they show extreme radiation, which
19 is not included in the dose reconstruction --
20 the -- I'm sorry, in the radiation exposure
21 history that I was given.

22 And not only that, the widows -- everyone is
23 told that -- remember, as the claimant, it is
24 ultimately your responsibility to submit the
25 necessary information to substantiate your

1 claim under the EEOICPA. This is from the
2 Department of Labor. There's no way they can
3 substantiate their claims. They don't have the
4 records. They're -- they're not being given
5 them.

6 So I respectfully ask the Board to grant
7 Special Exposure Cohort status to the Nevada
8 Test Site so these workers, who freely gave
9 their all -- they gave everything they had to
10 give -- in order that we could win the Cold
11 War, and they need to get these claims paid.
12 Thank you.

13 **DR. ZIEMER:** Thank you very much. John Funk,
14 is John ready?

15 **MR. FUNK:** (Off microphone) (Unintelligible)
16 switch with Brenda here.

17 **DR. ZIEMER:** Okay.

18 **MR. FUNK:** (Off microphone) (Unintelligible)
19 her spot.

20 **DR. ZIEMER:** Okay. Brenda --

21 **UNIDENTIFIED:** Sieck.

22 **DR. ZIEMER:** I got it, okay. Brenda?

23 **MS. SIECK:** Good evening, ladies and gentlemen.
24 Can I just hold this? My name is Brenda Sieck
25 and I'm here to talk about my father tonight,

1 Ronald C. Bain. Here's a picture of him in his
2 younger days when he was in the Air Force, and
3 he is on the far right -- big guy -- in a hat.
4 He served in the Army and the Air Force for our
5 country. He also worked for the government at
6 the Nevada Test Site for many, many years. Our
7 family has had a claim with U.S. Department of
8 Labor for my daddy's death for almost 30 years
9 now. This is unacceptable. And the families
10 want to be done with this and compensated for
11 losing their loved ones in this room.
12 My father was an awesome man. He died of
13 horrific cancer that ate his body away due to
14 the extreme amounts of radiation that he was
15 exposed to while working under the tunnels and
16 various other places at the Test Site. My
17 family has been through a very long,
18 frustrating journey with the government trying
19 to get the information we need.
20 Over the years we have had many friends die to
21 cancer from working at the Test Site with my
22 father. The only friends that are alive that
23 we know of are [name redacted], who is here in
24 the room tonight, and [name redacted], who
25 lives out of town, who both are still suffering

1 severe health issues from working at the Test
2 Site with my father.
3 Even though we have documents and go back and
4 forth with letters, the government still
5 refuses to acknowledge our men and women who
6 gave their lives to work at the Test Site.
7 Excuse me. [name redacted], who lost the great
8 love of her life, has been filling out forms
9 for many years -- too many. The claim form
10 that especially interested me that I was
11 looking over was claim form number EE-2 for
12 survivor benefits, asked questions that my
13 mother could not answer because she did not
14 know the answer. Questions like number 6 on
15 page 3 asked did he participate in a urine,
16 fecal or breath biological radiation monitoring
17 program. Question number 7 asked do you have
18 copies of his dosimeter -- if I'm saying that
19 right -- badge or biological monitoring
20 records. She did not know. She did not have
21 access to this. Question 8 asked was he ever
22 res-- restricted from the workplace or certain
23 job duties because he had reached a radiation
24 dose limit. So tell me, how do we get this
25 information that you're asking for? However,

1 there was one question asked that she did have
2 an answer for, and it was question number 9.
3 It asked was he ever involved in an incident
4 involving radiation exposure or contamination.
5 [name redacted] wrote down yes. [name
6 redacted] mentioned being in hot spots all the
7 time, and that in 1978 he was overdosed with
8 radiation and had to be decontaminated at the
9 end of his shift in the Emad in area 400. To
10 this day we still have not received a response
11 to this.

12 There were so many other times when he came
13 home and took off his clothes outside before
14 coming into the house in the back yard because
15 he was exposed and did not to put his clothes
16 with our family's clothes.

17 In closing I would just like to say thank you
18 for listening to me tonight 'cause I'm here be-
19 - for [name redacted] because she cannot handle
20 reading the paperwork and being refused anymore
21 so I'm taking over for her, and she lives with
22 me now. I just pray that the government does
23 the right thing and takes care of these
24 families who have suffered great losses in
25 their lifetime, and I would like to leave you a

1 copy of an interview with a young man from the
2 Department of Labor dated January 2005. He had
3 no knowledge of even what the Test Site was. I
4 believe his name is [name redacted]. This
5 gives a lot more information at what went under
6 the tunnels as my mom had [name redacted] sit
7 in an interview and that's when we really found
8 out what happened to my father. Thank you.

9 **DR. ZIEMER:** Thank you very much, Brenda.
10 [name redacted]?

11 (No responses)

12 Okay, how about Annie Padilla or Padilla --
13 looks like Padilla -- P-a-d-i-l-l-a.

14 **UNIDENTIFIED:** (Off microphone)

15 (Unintelligible)

16 **DR. ZIEMER:** Okay. Denise Brock -- I know
17 Denise is here.

18 **MS. BROCK:** Hello, everybody.

19 (Pause)

20 I -- I do have a couple of statements from
21 claimants they've asked me to read. One lady
22 was here earlier today but had to leave, and
23 another lady just could not make the trip and
24 has asked me to read the statement she has
25 written, and I'll start with hers first.

1 Presentation statement for Advisory Board
2 meeting, Las Vegas, Nevada 2008, written by
3 [name redacted] on behalf of [name redacted],
4 surviving spouse of [name redacted].

5 (Reading) I first learned the existence of the
6 Energy Employees Occupational Illness
7 Compensation Program Act of 2000 while talking
8 to a coworker in Chattanooga, Tennessee. We
9 were both from Oak Ridge and, like many other
10 children growing up there, had parents who
11 worked at the nuclear weapons plants. She told
12 me about the federal government passing a law
13 that was supposed to help compensate Energy
14 workers who had developed catastrophic
15 illnesses as a result of their employment in
16 the nuclear plants. I remember thinking, my
17 God, someone is finally going to recognize the
18 sacrifices that my father and thousands of
19 others made working at those facilities.
20 My father worked at Y-12 nuclear plant on the
21 Manhattan Project during 1944 through 1946. I
22 still have the framed certificate they so
23 graciously presented to him. He left Oak
24 Ridge, and then returned to Y-12 in 1953. He
25 was never told of the dangers of working in a

1 uranium enrichment operation and had no idea
2 what working in such an uncontrolled
3 environment was doing to his health.
4 He began having health issues in the early to
5 mid-1960s, which steadily worsened. My family
6 watched my father die a long, agonizing death
7 as his body slowly deteriorated over a 10-year
8 period. He suffered from cancer, coronary
9 heart disease, arteriosclerosis and God knows
10 what other radiological-induced illnesses. He
11 lost one leg, and then the other, and
12 ultimately his life when he finally succumbed
13 to bladder cancer. My father was 67 years old
14 at the time of his death, and he had the body
15 of a 90-year-old.
16 [identifying information redacted].
17 In 2001 I filed a claim on behalf of [name
18 redacted] with the Department of Labor under
19 the EEOICPA, requesting survivor benefits due
20 to my dad's employment. For years now we have
21 provided every piece of documentation requested
22 of us. We have spent hours and hours talking
23 with many different people who represented
24 whichever government agency happened to have
25 the claim at the time.

1 Finally in February 2006, after five years of
2 waiting and following the claim as it was
3 bounced between agencies, we received a
4 favorable recommendation from the Department of
5 Labor. We were elated. The notification
6 advised that this was not the final decision
7 and that it still needed to go before the Final
8 Adjudication Branch, or FAB, for their review
9 and the issuance of the final decision. The
10 letter advised that if we agreed with the
11 recommended decision to sign and return the
12 waiver enclosed and we should hear soon from
13 FAB. We were sure it was just a matter of a
14 rubber stamp, but it was not to be.
15 We anxiously awaited further instructions, only
16 to receive a remand order eight months later
17 from the FAB. You can't imagine how
18 disheartening and emotional it was to read the
19 Seattle District Office will undertake further
20 development of the evidence as it deems
21 necessary. The letter stated we should be
22 advised of the new recommended decision.
23 However, another year passed and we heard
24 nothing.
25 I contacted the Department of Labor office and

1 was told that they no longer had the claim,
2 that it had been forwarded back to NIOSH for
3 further investigation. Six years this has been
4 going on. I couldn't believe this was
5 happening all over again.

6 We contacted NIOSH for help in understanding
7 what was going on. Interestingly, I ran across
8 the following while researching the EEOICPA.
9 Executive Order 13179 providing compensation to
10 America's nuclear weapons workers, December
11 7th, 2000 states, and I quote, While the nation
12 can never fully repay these workers or their
13 families, they deserve recognition and
14 compensation for their sacrifices.

15 Since the administration's historic
16 announcement in July of 1999 that it intended
17 to compensate DOE nuclear weapons workers who
18 suffered occupational illnesses as a result of
19 the exposure to the unique hazards in building
20 the nation's nuclear defense, it has been the
21 policy of this administration to support fair
22 and timely compensation for these workers and
23 their survivors.

24 DOE news, July 27th, 2001 -- Our goal is to
25 take care of the men and women who were harmed

1 as quickly as possible, said Secretary -- Labor
2 Secretary Elaine Chao.

3 My sisters and I lost our father, but my mother
4 lost her husband, her best friend, the love of
5 her life. He died way too young. He didn't
6 get to spend any golden years with my mother,
7 or be there to guide his children as young
8 adults or share the laughter and love of his
9 grandchildren. [identifying information
10 redacted]. We have been waiting nearly seven
11 years now for someone to stand up and do the
12 right thing. We have met all the clinical and
13 administrative criteria. My father's tenure at
14 Y-12 certainly was well beyond the 250-day
15 requirement under the Y-12 Special Exposure
16 Cohort. My question to the Department of Labor
17 and NIOSH is, when is this claim going to be
18 paid? I find it hard to believe that when
19 Congress passed Executive Order 13179 they
20 considered seven years to be fair or timely.
21 This is so wrong. Someone needs to make it
22 right and it needs to be today.

23 I would like to just add a statement, if I
24 could, to this. I've been working with this --
25 this lady and her mother for a little while

1 now, and this -- among several cases I've been
2 running across at the Y-12 site. And NIOSH is
3 working with the Department of Labor to resolve
4 these, but these are very disheartening for me.
5 When you see a worker that has a 90-year-old
6 surviving spouse, 90 years old, and has had
7 this claim sitting for over a year, and she had
8 a recommended decision of approval -- this man
9 had over 250 days, one of the 22 cancers. But
10 the problem with it is is that there's a
11 question of whether or not it was in a
12 radiological area. If this is the claim I'm
13 thinking of -- because I have several -- this
14 man had bioassay, so I really am at a loss here
15 as to what the problem is.

16 This is from [name redacted] for [name
17 redacted], and I'll just go ahead and read --
18 she's got a list of things here -- is that all
19 right for me to do this, and this'll be my last
20 one.

21 (Reading) [name redacted] was at the Nevada
22 Test Site frequently from 1957 through the late
23 '60s as a bomb assembler and handler. He wore
24 a film badge for radiation all the time, as
25 directly related by him. Traveled from

1 Albuquerque to Las Vegas to work at the Nevada
2 Test Site many weeks from 1957 to 1960.
3 On Monday morning my mother took him to the
4 airport until late Friday night when Mom and I
5 picked him up at the airport. No accounts made
6 of this. Our family lived in Tonapah from 1960
7 until '63. We were told unless we had an
8 affidavit, that wouldn't be accounted for. I
9 found my school records and all of a sudden
10 records showed Dad worked at the Tonapah Test
11 Site.
12 He told us he -- he told us of going from
13 Tonapah Test Site to the Nevada Test Site to
14 set up, monitor, and clean up after the tests.
15 Again we were told unless we have affidavits,
16 it would not be accounted for. I found a
17 gentleman that worked with Dad and gave us an
18 affidavit upon seeing Dad working at the Nevada
19 Test Site on several occasions, including the
20 Sedan test. This was the next test -- to the
21 largest test and broke out into the atmosphere
22 12,000 feet, releasing serious radiation, the
23 worst of all tests. Dad was then instructed to
24 go to Ground Zero to do work 24 hours after the
25 blast. How well was he protected at that

1 point?

2 All of a sudden, times show up on the records
3 of him working at the Nevada Test Site.

4 Stories Dad directly related to us, he was
5 asked on several occasions to take off his
6 badge when he had too much radiation and
7 continue to work, even to go to Ground Zero
8 right after a test. When he knew he received
9 too much radiation, the lab results from his
10 badge came back as lab malfunction, or such.

11 He and others he worked with were getting
12 really sick from the radiation poisoning and
13 were told by Sandia nothing was wrong.

14 Right after our family was moved back to
15 Albuquerque Dad had to have his thyroid removed
16 because of growths. That is known to be
17 directly related to radiation exposure, yet
18 this is not giving any -- given any recognition
19 because it wasn't cancerous. Dad had melanomas
20 and precancerous nodules removed, and died of
21 pancreatic cancer that spread into the liver
22 from all the radiation.

23 You have placed our dad there for a short time,
24 but he was there and assembling and handling
25 bombs much longer. We have proof he was there

1 those years, yet the dosimetry records have
2 mysteriously disappeared for the years of the
3 greatest radiation. Where are all the dosimetry
4 records for the 1958 through the 1960s? In our
5 observation from how we've been treated, the
6 records from those most radiated were quite
7 obviously destroyed or hidden until the
8 family's able to prove their family member was
9 in the affected areas, and then miraculously
10 records show up. Each time we find more
11 evidence, the dose reconstruction records are
12 copied and pasted, lowering the allotted
13 amounts previously, pasting in a small amount
14 of the new exposures, still leaving us under
15 the 50 percent mark. And allotting
16 compensation based on dosimetry records is
17 futile. Those records are altered, not
18 available, hidden, lost, or destroyed.

19 I have a Review Journal newspaper article about
20 a woman working at the Nevada Test Site that
21 one day came in and asked what happened to the
22 boxes of old records that had been stored in a
23 certain room. She was told they were such old
24 records they weren't needed anymore and were
25 taken to the dump. Shouldn't people be

1 concerned about the coverups during those
2 years?

3 We are frustrated because we have all this
4 proof and he died of radiation. Also we can't
5 seem to get help. We would really appreciate
6 help in this -- with this and for you to
7 include the years he was working with the
8 bombs, radiation, and the Sedan Test. Thank
9 you for your help. [name redacted].

10 Thank you.

11 **DR. ZIEMER:** Thank you, Denise. Okay, I've got
12 Dorothy Clayton again, but Dorothy, you already
13 spoke to us so -- somehow you ended up here
14 twice.

15 [name redacted]?

16 **UNIDENTIFIED:** That's Brenda.

17 **DR. ZIEMER:** Brenda, okay. I'm having trouble
18 reading the -- okay, so Brenda has -- we've
19 already heard from, so we hear from Mr. Funk.

20 **MR. FUNK:** Good afternoon, Dr. Wade, Dr. Zimmer
21 (sic). Last night I -- Dr. (sic) Presley let
22 me sit on their working board's meeting and I
23 had an opportunity to raise some issues about
24 the Technical Base (sic) Document and the site
25 profile. And later on I -- today I was talking

1 to Dr. (sic) Presley and I didn't -- I told him
2 I didn't think that they put much stock in what
3 I had to say, and his remark to me was well,
4 the issues I had raised are in the site
5 profile, and were. And I would like to address
6 the Board in this part that yes, it is in the
7 site profile, but it's not in the technical --
8 it's not in the tables. The dose reconstructor
9 -- what -- what use are the tables if you don't
10 use them?

11 I think the HENRE experiment should be in the
12 tables. I think the BREN tower being
13 mislocated needs to be addressed. I think the
14 super kugala* needs to be in the tables. And I
15 would also believe that the tweezers and
16 there's a couple more out there floating
17 around, too. I understand some -- maybe Atlas.
18 And now you just can't mention these -- the
19 dose reconstruction form says these for the
20 purpose of dose reconstruction. I hardly see
21 how you -- just having the name of it in the
22 document is sufficient for the dose
23 reconstructor to work with.

24 Now I'll get off of that for the moment. I'll
25 go -- go on to another subject.

1 As you've seen that these ladies all come up
2 here, they all have a common denominator. They
3 cannot get records. Spouses and wives cannot
4 get information. I had one lady's a friend of
5 Dorothy Clayton, she came to one of my meetings
6 and she said did I know anybody worked with her
7 husband. And I said I don't know, what was his
8 name? She told me his name was [name
9 redacted]. It so happens that [name redacted]
10 worked in my shop, so not only was I able to
11 tell her who her husband worked with, I gave
12 her a photograph of everybody he worked with
13 and named them all.
14 Now why should that woman have to wait five
15 years and only by accident find out who her
16 husband even worked with? And this is the
17 problem that these girls have been facing.
18 Now the other night at that working board
19 meeting I seen something very peculiar. What
20 it was, one of the claimants has filed a claim
21 which was -- admit it'd be colorful, I won't
22 say any more than that, and NIOSH and the --
23 and DOL and whoever else -- and DOE's involved,
24 too, went over and worked overtime in the
25 library and they come back with a set of

1 records on this man. They knew every minute he
2 was on the Test Site. They knew every single
3 move he'd made, all the way back to 1960. They
4 didn't have any trouble finding his records.
5 And what was even worse, when they couldn't
6 find a record, they fabricated one.
7 And that was at -- the case with the picture.
8 They were showing -- here, we have critical --
9 we have state of the art radiation detection
10 stations, look at this. I looked at the
11 picture. First thing I seen, they was talking
12 about a 1960s issue. I see DOL on his hat.
13 DOL didn't exist in 1960. Next thing I seen, I
14 seen a badge, which was a 1982 badge. So I
15 asked Dr. Wade to ask their consultants, who
16 were also -- believe it or not, they're -- the
17 ones that was your consultants were the ones
18 that caused most of the problems out there.
19 Now they're working for you. But he asked him
20 when the picture was taken; he said 1982. And
21 I raised the issue, what are you doing with a
22 1982 picture talking about a 1960 situation?
23 Now this is one example of what we're talking
24 about. These -- when they want to find
25 records, believe me, they can find them. And

1 they trashed that poor man last night and I
2 hope they're ashamed of themself (sic) for what
3 they did, because they don't have to take this
4 one person and make a poster boy out of him and
5 to paint the entire group that worked Nevada
6 Test Site with this one incident. And I think
7 the man should have had a -- an opportunity to
8 respond, to retract his statements or to
9 understand the gravity of it without -- and
10 when I asked one of your consultants back there
11 why he -- they would do such a thing, he told
12 me because it was easy. That's his exact
13 remarks, because it was easy; we knew we could
14 get this one.
15 Now this is the kind of people you're hiring
16 for consultants. That was the Oriental
17 gentleman, he's from LLL. And like I said,
18 these are the people that caused the problems
19 at the Test Site in the first place, and now
20 you've got them working for you. And I'm going
21 to find out just exactly why they're working
22 for you, 'cause every one of them's in conflict
23 of interest, should not even be involved in
24 this any way, shape, nor form. Thank you.
25 **DR. ZIEMER:** Thank you, Mr. Funk. Now actually

1 I think there is a [name redacted] here because
2 his name is at least written down separately
3 from Brenda's -- may not be here, but can you
4 confirm that that's -- that's this one right
5 here. I want to, again, give an opportunity if
6 there is such a person.

7 **DR. WADE:** I think that's Brenda.

8 **DR. ZIEMER:** Well, here's Brenda's right here,
9 and this -- this is S-p-e-- well, I -- I
10 suppose you could be down there three times,
11 Brenda, but it's -- okay.
12 Michael -- looks like Brewskie.

13 **UNIDENTIFIED:** (Off microphone)
14 (Unintelligible)

15 **DR. ZIEMER:** Actually your -- your -- I looked
16 at your e-mail address. I like that Brewskies
17 there --

18 **MR. BREW:** Yeah, well, (unintelligible) 'cause
19 my name is Brew.

20 Okay, my name is Michael Brew. I worked at the
21 Nevada Test Site in 1982/83 as an apprentice --
22 I think -- yeah, maybe '81, I'm not sure. I
23 can't remember; it's been several decades.
24 I also worked out there at the DAF, the Device
25 Assembly Facility, and then I've also worked

1 out there recently from 2/25 of 2001 to
2 September of 2004. And I'm not sure -- I -- I
3 feel this is the -- is the correct forum for
4 what I have to say because I've been to the
5 Test Site for a number of years, and I can
6 concur with some of the things that have been
7 said up here -- with this lady over here about
8 the tunnels.

9 Working on T tunnel myself on the last shot --
10 what was it called, Mighty Oak, does anybody
11 remember -- yeah, it was called Mighty Oak.
12 Well, it was supposed to be 150 kiloton blast.
13 Well, they said it hit water and it magnified
14 it to -- what, 750? -- 750 kiloton, and the
15 Russians were pissed off. Okay? There was a
16 big to-do about that. What, it vented the
17 doors. Right?
18 Okay. Eight people went on re-entry. Seven of
19 them are dead of cancer already. I went in a
20 week later. Okay? Now there's no half-life
21 that goes a week. Does anybody know of one?
22 Okay. My radiation badge said zero for the
23 year. Seven people that went in a week before
24 me were dead. The dance hall had collapsed all
25 the mater-- all the -- all the -- all the ma--

1 the oscilloscopes and the cameras to a two-foot
2 high section. Do you remember that? Does
3 anybody here recall that?

4 **UNIDENTIFIED:** (Off microphone)

5 (Unintelligible)

6 **MR. BREW:** Okay, you worked on Mighty Oak.
7 Okay. So -- you remember being pulled out on a
8 sled through the doors -- and the doors vented.
9 Okay? The -- mesa collapsed and electrician
10 was killed, and I forget the name of the rad
11 safe girl, she -- her ankle was broken when it
12 collapsed. They were above it at the time, but
13 it did vent.

14 When we worked in Area 12 we were bused from
15 the camp up to the tunnels, and we were told
16 never to touch any of the materials that you
17 saw along the road, especially the E tunnel
18 door that was blasted all the way across from E
19 tunnel to the other side of the road, and it
20 was imbedded in the mountain right there.

21 There was metal, there was wood, there was --
22 you name it, there was stuff all over the place
23 from the -- from when those places vented.

24 We were told out there that all the radiation
25 was ground-bound -- I think that's what they

1 called it, ground-bound or something like that,
2 it was in the dirt and it wouldn't move. But
3 yet I saw a 1,000-foot dust storm come at us up
4 into Area 6 -- all right? -- when I was working
5 there. At no point in time has my badge record
6 ever said I got anything at all.

7 I've been to -- is Baneberry or Sedan crater?
8 Which is the one you can drive up to?

9 **UNIDENTIFIED:** Sedan.

10 **MR. BREW:** Sedan, and it's what, 120 at the top
11 -- 120 rems?

12 **UNIDENTIFIED:** Yeah.

13 **MR. BREW:** Yeah, it's 120 rems at the top. We
14 sat there for an hour looking at it. Our
15 badges showed nothing -- or the report was
16 nothing, one of the two.

17 Okay, and here's my final little thing for
18 this. It's really bothering me. It's about
19 the reporting. Okay? This is what it's all
20 about, it's the reporting and that you take the
21 contractors -- whoever it is, REECO, LLNL,
22 Bechtel, whoever -- you take their statement, a
23 report, and say okay, you know, you don't have
24 cancer from radiation 'cause it says zero,
25 zero, zero. Oh, okay.

1 Now I -- I have here my 2004 reporting
2 dosometer (sic) record right here -- right? --
3 the full report. Except there's one problem.
4 I've got my badge that this report covers. Now
5 can you tell me how in God's world -- in God we
6 trust -- that a company could issue a report
7 covering that year and never see the badge? Is
8 that possible? No. Is it morally correct?
9 No. I worked at Nevada Test Site because I
10 believe in America. I didn't work out there to
11 be dosed and not taken care of.
12 I'm lucky. For some reason, God has kept me
13 alive. But I've got the badge -- here it is,
14 the real McCoy.
15 I talked to the Inspector General through [name
16 redacted]. They went out and investigated
17 this. Do you know what the Inspector General
18 from Washington, D.C. said about this? Well,
19 because you have not gotten any radiation from
20 prior works or whatever, we assume -- quote --
21 that you haven't gotten any radiation from, you
22 know, this period.
23 Okay. You haven't had a car accident in 15
24 years? I assume I shouldn't have to wear a
25 seat belt then. Right? No, wrong. Wrong,

1 yeah? You know what I'm saying? The
2 assumption is that there's no radiation out
3 there that I can get involved in. Yes, there
4 is. There's the Sudan (sic) crater when the
5 dust blows up out of it all over the Test Site.
6 They buried Cadillacs and cars and stuff from
7 when that did -- when that -- when that --
8 because it was so -- caused so much radiation.
9 Those things were unusual. Okay?
10 I was in Area 5 all the time, working in Area 5
11 -- okay? They have high level waste out there
12 and it's in a blue tent sitting on concrete.
13 But you know, a wind storm come up and
14 fractured the -- the concrete of the blue tent.
15 The stuff can't be any closer than three to
16 five feet or it starts to react. They're
17 burying low radiation waste out there all the
18 time -- in the ground. Area 5 is -- that -- is
19 -- is where the people sat up on the hill and
20 it goes -- boom -- you see that all the time.
21 These sitting there, the -- the benches are
22 still there, and that's where we were working.
23 But I got no dose.
24 So what I'm putting forth to you is that when
25 you're going back for records -- okay? --

1 'cause here's a record says zero; here's the
2 badge. That's all I've got to say. If you
3 want a copy of this, I'll give it to you but I
4 need the original back. Here's a copy of the
5 badge that I have. I'm not giving the badge
6 up.

7 **MS. BEACH:** (Off microphone) (Unintelligible)

8 **DR. ZIEMER:** Yeah, we can -- we can get copies
9 of that. Thank you very much and --

10 **MR. BREW:** (Off microphone) (Unintelligible)
11 it's an emotional thing for me, too, because
12 I've been to --

13 **DR. ZIEMER:** Sure.

14 **MR. BREW:** -- several agencies and they've all
15 done the same thing. They've pushed me all on
16 -- someplace else and said well, it doesn't
17 matter. Well, it does matter to the American
18 worker. Do we have loyalty for us or are we
19 just a piece of meat -- and that's my bottom
20 line, or not? We're American citizens and we
21 should be respected as American citizens
22 because we're the people the put these things
23 together, not the corporate. The corporate
24 just organized it. But we, the little ants,
25 are the ones that do the work. And we're the

1 **DR. ZIEMER:** Yeah, that would be fine, Kay. Go
2 ahead.

3 **MS. BARKER:** Can you hear me well enough, Dr.
4 Ziemer?

5 **DR. ZIEMER:** I can hear you very well, Kay.
6 Thank you. Proceed.

7 **MS. BARKER:** Good evening, Dr. Ziemer and
8 members of the Board. My name is Kay Barker.
9 [name redacted] couldn't make the call. She
10 asked if I could submit our comments instead.
11 I want to thank you for allowing me to phone in
12 my public comments tonight on the Rocky Flats
13 SEC petition.

14 I would like to talk about the 19 buildings
15 which the Ruttenber report had neutron exposure
16 but is missing from the SEC petition. Nine of
17 those buildings are not even mentioned in the
18 site profile. If NIOSH can't even get all the
19 Rocky Flats buildings listed in the site
20 profile, how can they claim that an accurate
21 and claimant-friendly dose reconstruction is
22 performed on the compl-- on the claim. I ask
23 you, how can these claims be done accurately
24 and fairly. There is no claimant friendly dose
25 reconstruction being administered by NIOSH

1 here.

2 [name redacted] raised the issue that nine
3 buildings were missing from the Rocky Flats
4 site profile during the November 26th, 2007
5 Rocky Flats working group teleconference. I
6 believe that Brant Ulsh stated it is not
7 necessary to include all buildings in a site
8 profile. When was that decided? Did the Board
9 agree that only the major buildings should be
10 identified? The nine buildings missing from
11 the Rocky Flats site profile range from
12 administrative buildings to plant security to
13 maintenance and to metal fabrication. NIOSH
14 doesn't think these workers in these buildings
15 are worthy of inclusion in the site profile?
16 How, then, are these workers dose
17 reconstructed? I assert that it is quite
18 possible that they are not reconstructed with
19 reasonable accuracy. How could they be when
20 the reconstructor doesn't even realize these
21 buildings existed at Rocky Flats?

22 The employees not only wore the scrubs and
23 whites in the hot areas, they also continued to
24 wear these garments in the cafeteria, human
25 services, and some even wore them home. The

1 RCs were usually too busy to monitor each
2 employee as they left the hot area so removing
3 the contaminated garment wasn't always done.
4 There is no way to construct dose on employees
5 who were contaminated in this way.
6 Not only is Rocky Flats site profile and SEC
7 petition missing buildings, the same thing has
8 happened at other sites. DOL -- DOL needed to
9 issue a bulletin to correct the Los Alamos SEC
10 because a building was missing. Nevada Test
11 Site has an important radiological source
12 missing from their site profile. Now explain
13 to all the claimants at these three sites how
14 their dose reconstructions have been accurate.
15 You can't do an accurate dose reconstruction on
16 a claimant who was in a building that you don't
17 have a site profile on. I bet if you checked,
18 you would find this is happening at all the
19 other DOE sites as well. Don't worry, the word
20 is getting out and the claimants at the other
21 sites are checking onto this, too. I'm sure
22 you'll be hearing from them soon.
23 Please don't continue to give all the claimants
24 the lip service that there is nothing you can
25 do and that you are bound by rules and

1 regulations set up for you by the President, as
2 that isn't cutting it anymore. You do have the
3 authority to overrule your June decision for
4 Rocky Flats, if nothing else but for the lack
5 of information given to you by NIOSH. You can
6 and should correct your mistake of not granting
7 a full and complete SEC petition to all Rocky
8 Flats workers. As the verbiage goes, junk in,
9 junk out, and it is exactly how the dose
10 reconstructions are being done at all the
11 sites, including Rocky Flats.
12 Just think about all the claims that now have
13 to be remanded back to NIOSH due to missing
14 buildings in petitions and site profiles. The
15 NIOSH employees are getting rich at the
16 claimants' expense and life.
17 Again, thank you for making this call possible.
18 **DR. ZIEMER:** Okay. Thank you, Kay, for filling
19 in for [name redacted] this afternoon.
20 **MS. BARKER:** Thank you, Dr. Ziemer.
21 **DR. ZIEMER:** You bet. That now completes our
22 public comment session for today. I will alert
23 you that we do have a public comment session
24 tomorrow evening at 7:30, and we'd be pleased
25 to hear from others who may have comments at

1 that time. So we're now recessed until
2 tomorrow morning when our session begins, and
3 of course all of you are welcome to the regular
4 sessions, as well. Thank you very much.
5 (Whereupon, the day's business was concluded at
6 6:20 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 Jan. 8, 2008; 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 8th day of February, 2008.

STEVEN RAY GREEN, CCR, CVR-CM
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