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PUBLIC HEALTH SERVICE
CENTERS FOR DISEASE CONTROL AND PREVENTION
NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH

convenes the

THIRTY-SEVENTH MEETING

ADVISORY BOARD ON
RADIATION AND WORKER HEALTH

VOL. II

DAY TWO

ABRWH BOARD MEETING

The verbatim transcript of the
Meeting of the Advisory Board on Radiation and
Worker Health held at the Four Points by Sheraton,
Denver, Colorado, on April 26, 2006.

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TRANSCRIPT LEGEND

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

-- / signifies speaker failure, usually failure to use a microphone.

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P R O C E E D I N G S

(8:45 a.m.)

WELCOME AND OPENING COMMENTS

DR. PAUL ZIEMER, CHAIR

1 DR. ZIEMER: Good morning, everyone. I'd like to

2 call the meeting to order. I'll start with the
3 usual reminder to register in the entryway --
4 if you're a visitor or Board member or staff
5 member. Please make sure we have a record of
6 your attendance here with us today.

7 Also I'd like to remind members of the public
8 that there is a public comment session

9 scheduled for this evening. It will begin at

10 7:00 p.m. If you wish to make public comment,

11 please so indicate in the sign-up sheet, which

12 is also in the entryway. That public comment

13 period is listed on the agenda as being 7:00 to

14 8:30. We will obviously try to accommodate

15 everyone that wishes to speak, even if it does

16 go a few minutes past 8:30 -- a few hours past

17 8:30, whatever it may...

18 But in any event, please let us know if you

19 would wish to make public comment.

20 I want to check -- we have Mr. Presley, who

1 will be with us at least part of the time by
2 phone, and Robert, are you on the line?

3 (No response)

4 Okay. I thought I heard something a moment
5 ago, but --

6 **DR. WADE:** Dr. Lockey possibly is.

7 **DR. ZIEMER:** Dr. Lockey, are you on the line?

8 (No response)

9 Okay, neither one so far, but they may be
10 joining us.

11 **DR. WADE:** Is anyone on the line?

12 **MS. HOMOKI-TITUS:** Dr. Ziemer, this is Liz
13 Homoki-Titus with Health and Human Services.
14 There are a number of people on the line.

15 **DR. ZIEMER:** Okay, hang on just a second. We
16 need to turn your phone volume up here so we
17 can hear you.

18 **MS. HOMOKI-TITUS:** Okay.

19 **MR. PRESLEY:** I'm still here, Liz.

20 **DR. ZIEMER:** Okay.

21 **MR. PRESLEY:** I couldn't hear them. For some
22 reason you can't hear Paul.

23 **DR. ZIEMER:** Okay, how's that? Robert,
24 welcome. We're just getting underway here.
25 Dr. Lockey, are you on the line, as well?

1 (No response)

2 Okay. Apparently just Mr. Presley so far.

3 **MR. PRESLEY:** Hey, Paul, can they turn the gain
4 up on your volume on the phone? I can barely
5 hear you.

6 **DR. ZIEMER:** Okay, how is this right now? Is
7 this --

8 **MR. PRESLEY:** It's better.

9 **DR. ZIEMER:** Is that okay?

10 **MR. PRESLEY:** Yeah, that's better.

11 **DR. ZIEMER:** Okay. Thank you very much. Dr.
12 Wade has a few remarks as we get underway this
13 morning, as well.

14 **DR. WADE:** Just a couple of sort of
15 housekeeping items. Relative to the agenda,
16 yesterday we did not have time for the
17 presentations by SC&A on petitions related to
18 Y-12 and Rocky Flats. What we'll do is we'll
19 begin each of those sessions -- Y-12 this
20 afternoon and Rocky Flats this morning -- hear-
21 -

22 **DR. ZIEMER:** No, not -- tomorrow. Rocky is
23 tomorrow morning.

24 **DR. WADE:** Rocky is tomorrow morning, I'm
25 sorry. I'm sorry. Y-12 this afternoon, Rocky

1 tomorrow morning, hearing about -- hearing from
2 SC&A on those -- their reports, and then we'll
3 move into the regularly scheduled agenda item.
4 This will give us a little bit of -- of
5 coincidence in terms of the discussion.
6 Also tonight's public comment session is not
7 only reserved for people who want to make
8 comments on Rocky Flats, but anyone who wants
9 to make comment. And you know, it could well
10 take us well past the -- the time, but I know
11 Dr. Ziemer's always been most gracious in
12 hearing from everyone who wants to be heard and
13 we'll certainly pursue that this evening.

14 **MS. KARO:** (Via telephone) Dr. Ziemer, I would
15 like to introduce myself. I am Daniella Karo.
16 I'm the petitioner for the Pacific Proving
17 Ground.

18 **PACIFIC PROVING GROUND (PPG) SEC**

19 **DR. ZIEMER:** Very good. Welcome, Danielle.
20 We're just ready to get underway in fact with
21 the Pacific Proving Ground SEC, so we welcome
22 you aboard --

23 **MS. KARO:** Thank you.

24 **DR. ZIEMER:** -- and we'll be calling on you in
25 a few minutes to make comments, in fact. So

1 we'll begin our discussion of the Pacific
2 Proving Ground SEC with a presentation by
3 NIOSH, and that will be given by Dr. Neton.
4 Then following that, we'll -- and a chance for
5 some discussion, we'll have a presentation by
6 Danielle, representing the petitioners. So Dr.
7 Neton.

8 (Pause)

9 Stand by, we're having some mike problems here.

10 (Pause)

11 **PRESENTATION BY NIOSH, DR. JAMES NETON, NIOSH**

12 **DR. NETON:** Thank you, Dr. Ziemer. It's my
13 pleasure to present to you today an update on
14 the status of the Pacific Proving Ground SEC
15 petition that we discussed at the January
16 meeting of the Advisory Board in Oak Ridge.
17 At that meeting the Advisory Board asked NIOSH
18 to follow up on a few issues related to the
19 petition. Specifically, those were to follow
20 up with the Defense Threat Reduction Agency to
21 determine the status of their closure of items
22 related to the National Research Council review
23 of their program from several years ago.
24 Secondly, the Board wished to provide -- obtain
25 some further information on the exposure

1 characteristics of the covered population of
2 the Pacific Proving Ground. It was not obvious
3 from our presentation the type of work
4 activities that were involved with the -- this
5 -- this class of workers, as well as the -- as
6 the duration of employment. That is, you know,
7 how many of these petitioner or how many of
8 these class of workers would -- would actually
9 meet the 250-day criteria that we proposed in
10 our -- in our evaluation report.

11 And third, to investigate a little bit the
12 issue related to if it were 250 days, how is
13 that relevant to a workforce who was
14 essentially there 24/7 during the operations.
15 I think we discussed that issue a little bit
16 yesterday, but we'll certainly be willing to
17 engage in further discussions on that if the
18 Board desires.

19 I would like to point out, as we discussed last
20 -- at the last meeting, that the -- the Defense
21 Threat Reduction Agency program that we're
22 going to talk about is -- is somewhat different
23 -- structured somewhat differently than -- than
24 the -- than our program, the Energy Employees
25 Occupational Illness Compensation Program, and

1 that is that the military personnel stationed
2 at the Pacific Proving Ground are -- their
3 cancers are considered presumptive, so there's
4 a presumptive class of workers there, and the
5 dose reconstructions that the Defense Threat
6 Reduction Agency does is for the non-
7 presumptive classes. So they're essentially
8 already covered under -- under -- under the
9 provisions of their Act, and in fact there is
10 no cash award of this \$150,000 like there is in
11 our program. They're essentially evaluated for
12 disability issues under the Veterans
13 Administration. I just want to make sure that
14 people were clear on that distinction.
15 Before I get started in detail I thought I'd
16 just take a few seconds to briefly go over some
17 of the ground we covered last week (sic) to
18 refresh people's memories as to -- as to what
19 we're talking about with Pacific Proving
20 Grounds. There was a nuclear test site in the
21 Marshall Islands, of course, that consisted of
22 four separate areas -- Enewetak Atoll, Bikini
23 Atoll, Johnston Island and Christmas Island --
24 and there were 105 total detonations that
25 occurred at Pacific Proving Grounds starting

1 with Operation CROSSROADS in 1946 and ending in
2 1962 with Operation DOMINIC. And as you can
3 see from the far right-hand column of the
4 slide, there were various types of detonations,
5 whether they were airbursts, from a tower,
6 surface bursts -- some of them were underwater.
7 So a wide variety of different activities were
8 conducted with nuclear weapons during this
9 period.

10 This is the class of employees that we
11 proposed, which was all DOE, DOE contractors
12 who worked during the duration of the Pacific
13 Proving Ground test shots -- that is from 1946
14 to 1962 -- and the stipulation that those who
15 worked there who were monitored or should have
16 been monitored for exposure to radiation as a
17 result of nuclear weapons testing.

18 I'd like to clarify a little bit about what we
19 mean by should have been monitored. We mean
20 this in the context of current thinking of
21 monitoring status, not monitoring status at the
22 time of the shots. If, for example, one looks
23 at the current Department of Energy regulation
24 for monitoring status, everyone who has the
25 potential to receive 100 millirem of exposure

1 in one year would be considered a person who
2 should be monitored. And that's -- when we say
3 that, that's what we're -- that's the context
4 in which we're speaking.

5 We looked at a number of resources, if you
6 recall from the January meeting, and we could
7 find no evidence that we could do dose
8 reconstructions for internal exposures in these
9 folks. There were reports that limited
10 bioassay existed -- well, first let me go back
11 and say that we found evidence that there were
12 sources of internal exposure -- obviously,
13 there were nuclear weapons that were detonated
14 in the area. These -- the cohort class that
15 we're speaking of were positioned about the
16 criticality event, but not in har-- not very up
17 close and personal that you would receive a
18 dose equivalent to something as a result of a
19 criticality incident that was an unplanned
20 activity. In fact, almost all of these workers
21 were monitored, so we have very good evidence,
22 we believe, of what their external exposures
23 were. But we lack sufficient bioassay data.
24 We cannot reconstruct their internal exposures
25 to any extent.

1 There were reports from the DTRA program and
2 elsewhere that bioassay samples were
3 sporadically taken. The ones that we -- we
4 heard of were measured on board a ship, sort of
5 in a makeshift fashion, and even those results
6 we couldn't find evidence of -- of the
7 documentation for those results.

8 There were some air monitoring samples taken,
9 but they were by and large taken to track the
10 plume of -- of the -- of the detonation and not
11 really for purposes of reconstructing exposures
12 to the -- to the workers at the facility.

13 So we determined it's not feasible to estimate
14 the internal doses with sufficient accuracy.
15 And when NIOSH makes a determination it's not
16 plausible to put an upper bound on the -- an
17 exposure pathway for a class of workers, we
18 make the determination that the health of the
19 employees may have been endangered.

20 As I mentioned, the evidence reviewed indicates
21 that some had -- workers had accu-- accumulated
22 internal exposures through episodic intakes of
23 radionuclides. So what we're really saying
24 here is not exposure from a criticality event,
25 but really the indirect exposure as a result of

1 the fallout of the radioactive materials,
2 direct breathing of that fallout while it was
3 occurring, and -- and breathing of the fallout
4 from resuspension due to activities after --
5 after the material was deposited on -- on the
6 surface.

7 This has a lot of -- a significant bearing for
8 the cohort that we're talking about because, as
9 you'll see later in our presentation, many of
10 these workers were positioned there for -- for
11 numbers of years. These were not short-term,
12 go in with an instrument package, come out.
13 Some did do that, but a large percentage of
14 this cohort spent years there working on these
15 islands. So from that determination, we -- we
16 qualified this -- recommend this class based on
17 the 250-day default scenario for SEC
18 eligibility.

19 And the proposed class ended up being -- well,
20 exactly what I just said, workers from 1946
21 through '62 who were monitored or should have
22 been monitored.

23 Now this slide just summarizes what I said in
24 the beginning. We are following up with
25 Defense Threat Reduction Agency to develop --

1 see where they are with rele-- relative to
2 their issues with the National Research
3 Council, and we did some evaluations of the
4 work and work patterns of the workers, and we
5 attempted to address the monitoring status of
6 the workers and the appropriateness of 250
7 days.

8 DTRA -- at the last meeting, if you recall, Dr.
9 Paul Blake provided a presentation where he
10 outlined their strategy to closure of the items
11 of the National Research Council, and he
12 indicated that he would send NIOSH an update on
13 the documents under development and -- as well
14 as an estimated completion time of their
15 status. I have listed here the -- there's
16 seven documents that are currently being worked
17 on by the Defense Threat Reduction Agency, and
18 all seven of these documents are related to the
19 issues raised in the National Research Council
20 report. The first one, screening doses for
21 induction of cancers calculated with the
22 Interactive RadioEpidemiologic Program, that
23 one was -- as indicated by Dr. Blake in his
24 communication to us -- had a proposed
25 publication date of May 6th of this year.

1 The second document is particularly relevant.
2 It's a bounding analysis for the effects of
3 fractionation of radionuclides in fallout on
4 estimation of doses to atomic veterans. In our
5 minds this was one of the critical issues that
6 was raised by the National Research Council.
7 The Defense Threat Reduction Agency program
8 assumes a uniform plane or deposition of
9 fallout from the detonations. And in that way,
10 if you know -- all you really need to know is
11 what the external exposure was, and then one
12 can sort of estimate what -- possibly what the
13 internal exposure was. The NRC report actually
14 suggested, though, that things don't happen
15 that way. There are fractionations of the
16 radionuclides in the mixture away from the
17 fallout pattern, and they -- they suggested
18 that DTRA should investigate this. And I think
19 this is the -- the second document is what
20 that's trying to accomplish.

21 The revision of FIIDOS is -- is a revision of
22 the -- I forget what the acronym stands for,
23 but it's the Defense Threat Reduction Agency's
24 program -- computerized program for analyzing
25 internal -- the doses received from fallout.

1 It essentially takes a -- if you recall -- a
2 film badge result and attempts to estimate what
3 the internal dose would be based on external
4 exposure.

5 There's seven total publications here. Those
6 are the first three, and those were the ones
7 that had the closest-in publication dates. The
8 fourth one is evaluation of inhalation doses in
9 high-resuspension scenarios. This also has
10 relevance to our ability to reconstruct doses
11 for PPG -- and NTS workers, for that matter --
12 and that is when a detonation would go off it
13 would also tend to bring with it fallout
14 contamination from previous shots resuspended
15 into the atmosphere, which created an
16 additional exposure pathway that had heretofore
17 been unrecognized I think, or not sufficiently
18 accounted for in the Defense Threat Reduction
19 Agency's documentation.

20 And there's a special study that is underway
21 for exposures to old fallout fields for DESERT
22 ROCK trainees at NTS. This is related to an
23 issue raised by the NRC about an evaluation of
24 reliability for this model. It was not a --
25 necessarily a finding on their part. It was a

1 suggestion by the NRC that the reliability of
2 this method -- that is, taking the film badge
3 and interpreting or interpreting that as to
4 what internal dose could be -- is really
5 scientifically possible but not been
6 empirically demonstrated. So the NRC
7 suggested that they go and obtain some fallout
8 samples, even contemporaneous samples, and try
9 to go backwards and model this and see how well
10 it works. I think this study may shed some
11 light on that issue, although in communications
12 with DTRA they have no detailed plans in the
13 near term to -- to complete a full-blown
14 evaluation of the reliability of the model at
15 this point. There are a number of issues
16 preventing them from doing that. Most notably,
17 I believe there are classification issues that
18 are standing in the way.

19 And the final document that is -- or not the
20 final, but another document intended to be
21 completed is the -- how to estimate skin doses
22 from, you know, dermal contamination. That is
23 the settling of fallout on the skin of the
24 workers and what the doses are from that
25 pathway.

1 And the final one that's projected to be
2 completed in November '06 is consideration of
3 estimates of upper bounds of neutron doses for
4 these -- for these veterans.

5 So you can see that there -- there are seven
6 documents that DTRA has underway in various
7 stages of completion ranging from May through
8 November of this year.

9 Just before the Board meeting we wanted to make
10 sure where they are with these documents to get
11 a better snapshot as to what we could expect to
12 see from them in the near term, and we sent a
13 letter over to them and particularly were
14 inquiring about the first three since they were
15 the closest-in for publication. We thought we
16 might be able to obtain draft copies of these
17 documents, review them, see -- review them for
18 applicability to our -- our situation.

19 The documents have been drafted. They are
20 currently under various stages of internal
21 review within either DTRA or SENES Oak Ridge,
22 which is their contractor for a number of these
23 documents. They are not ready for public
24 release.

25 In fact, it's DTRA's policy that they don't

1 release pre-decisional documents to the public.
2 We received a letter just Friday from Dr. Blake
3 and I'd just like to read -- this -- this
4 should be available to the Board, this letter
5 from DTRA dated April 21st, 2006, and I believe
6 there are also copies on the table for the
7 members of the public.

8 I'd just like -- the one paragraph, after we --
9 we -- we requested, you know, a status update.
10 Dr. Blake responded that, I quote, "After
11 internal technical review of these documents,
12 NTPR plans to solicit peer review from the
13 Veterans' Advisory Board on Dose Reconstruction
14 prior to additional external review and/or
15 final publication. It is not the policy of my
16 agency to release pre-decisional documents so I
17 must regretfully decline your request for draft
18 copies." -- close quote.

19 What that indicates to me is that even though
20 these publication dates are -- are valid, I
21 mean they do -- they have published -- draft
22 documents, NIOSH will not be able to obtain
23 documents for some time into the future. It is
24 our understanding that their advisory board is
25 not planning on meeting until July, so that

1 would be the earliest that the advisory board
2 could provide input and comments on these
3 documents, and we can't speculate as to how
4 long external peer review would take after
5 that, but it would certainly take some time,
6 possibly months, after that. So we're looking
7 at quite an extended time period for NIOSH to
8 obtain additional documentation on how to --
9 how these may be applicable to our program.
10 Okay, a little bit about the work histories and
11 what happened to folks at the Pacific Proving
12 Grounds -- and this was actually somewhat
13 surprising to me when I -- when we started
14 digging into these issues. We went and looked
15 at every single case we have in our files for
16 Pacific Proving Ground claimants. And at the
17 time we did this analysis, I believe this was
18 in February sometime, we had 600 -- 69
19 claimants -- cases forwarded to us by the
20 Department of Labor. I think at the time we
21 presented this in January there were 64, so
22 you'll see a slight disconnect in the numbers.
23 Interestingly, the average length of employment
24 at the Pacific Proving Ground -- that is
25 stationed on the islands -- was 393 days for

1 those claimants. I'll have to caveat that
2 slightly. In looking through, there were a
3 couple claimants who had stayed durations in
4 excess of 25 years. I questioned the validity
5 of that and I didn't use those in the analysis.
6 I have to go back. I suspect what happened is
7 there was some NTS -- Nevada Test Site --
8 exposures included in there. Although I did go
9 through and look at a large majority of these
10 cases, and the 393-day average -- I did confirm
11 that that did constitute Pacific Proving Ground
12 employment. I was concerned that it may be
13 that a person had worked at NTS or Lawrence
14 Livermore, was deployed to PPG, and that was
15 all being aggregated into one number. It did
16 not appear to be the case from the number of
17 cases I looked at.

18 The range of employment duration was from one
19 day to greater than 2,500 days, and
20 approximately -- almost half of the cases that
21 we have in our possession have a covered
22 exposure duration of greater than 250 -- equal
23 to or greater than 250 days.

24 In addition to this, which is somewhat
25 interesting in light of what we're going to be

1 talking about in the next hour, is some of
2 these cases have additional exposures at Nevada
3 Test Site. There's a certain cadre of workers
4 that go around doing these things, and if
5 you're not investigating weapon detonations for
6 the Proving Ground, you may be working at the
7 Nevada Test Site.

8 For those of you who are more graphically
9 inclined, I put together a -- I love cumulative
10 probability distributions, and -- of course, as
11 everything in occupational exposure
12 environments fits a lognormal cumulative
13 probability distribution, no surprise there.
14 And I just highlight it here on the graph, a
15 little arrow pointing to the 250 days exposure
16 duration, which is right around the median
17 value of the population, which is -- which is
18 somewhat surprising to me, to be honest with
19 you, when I -- when I figured this out. And,
20 again, lognormally distributed, half -- more
21 than half 250 days, almost more than half.
22 We also took a look and went through every
23 Computer Assisted Telephone Interview that we
24 had 'cause all of these workers, of course,
25 either survivors or the workers themselves,

1 were interviewed. I think there were a couple
2 that declined interviews, but almost all had
3 interviews in their case file. And the variety
4 of responses of employment -- by all accounts,
5 and I went through and read some of these
6 myself, and we have a very nice summary sheet
7 that were prepared -- I didn't distribute it
8 because I was concerned about Privacy Act
9 information in here, but I -- I've summarized a
10 few job categories just to give you a flavor
11 for the range of -- of occupations that were
12 present on these islands.

13 They range from heavy equipment operator, which
14 you'd expect, there's a lot of trench
15 operations, there's buildings going up,
16 buildings being torn down to support these
17 detonations; divers to pull undersea cables.
18 Surprisingly there was a dentist. He spent
19 several years there. He was the only dentist
20 on the island and --

21 **MS. MUNN:** That makes sense to me.

22 **DR. NETON:** -- I guess given the number of
23 people that were there over the duration that
24 they were there, they needed some medical care.
25 There were first aid folks at that site, those

1 type medical people. Instrument technicians
2 that you'd expect, laborers, physicist,
3 cafeteria worker, so a wide variety of ranges
4 of employment on these islands. And many of
5 these reported combinations of work and
6 recreation activities in their CATI. If you
7 looked at what they were doing, of course they
8 worked and worked long days, but they were also
9 swimming in lagoons, eating the local
10 vegetation. You know, they were inhabitants of
11 the island, essentially.
12 Ninety percent of these cases were -- had
13 external dosimetry results in their case files,
14 so it is our belief, and I -- that almost all
15 these workers had external dosimetry
16 monitoring. The question is, given the
17 scenarios of the work environment, were these
18 workers actually wearing these dosimeters 24/7
19 for greater than 393 days -- two years, five
20 years? I suspect they weren't. I mean you
21 don't wear your TLD to bed and that sort of
22 thing. And if you're going to go out
23 snorkeling, that -- so even though we have
24 external dosimetry on these which we believe
25 can put a bound on their -- their exposures, it

1 brings into question, in my mind at least, the
2 applicability of the DTRA program where, if you
3 recall, you really need to know the external
4 dose to the workers to come up with any sort of
5 reasonable assumption for the internal
6 exposure.

7 **MS. MUNN:** Uh-huh.

8 **DR. NETON:** Lacking a good external result
9 number from a badge, one would have to know a
10 detailed time motion study. Because again,
11 with DTRA, if you knew where a person was
12 positioned in time and space over four, five,
13 six years, you could theoretically use that
14 approach as well. And unlike the military,
15 these people are not tracked with detailed logs
16 of -- of where they were -- where they were
17 positioned over these time periods. So you
18 know, I don't think that -- that pathway --
19 that's a viable option for us to attempt to
20 reconstruct these doses.

21 I just sort of looked at these job categories
22 and tried to collapse them into four major
23 grou-- they sort of fell into four major
24 groups, in my mind. I'm sure I could do a more
25 fine structure, but I really wanted to get a

1 sense for what were the categories of work that
2 people were doing, and interestingly enough,
3 they fell into essentially three categories.
4 If you combine administrative and unknown on
5 the far right-hand side there, it's about a
6 third apiece. A third of workers that were
7 doing building trades activities or what I
8 would call maintenance, so folks supporting the
9 infrastructure of the island and the building
10 and demolition activities. And then there was
11 about a third of the workers were engaged in
12 what I would call the scientific/technical
13 aspects of the operation. That is preparing
14 for the shots, monitoring the shots, that sort
15 of thing. And then about a third of the folks
16 were either in the administrative category --
17 project coordinators, managers, those type of
18 functions -- or we just have no knowledge -- 13
19 percent we have no knowledge of what their job
20 category was.

21 I think that -- that concludes what we were
22 able to discern between January and now. I'd
23 be happy to answer any questions.

24 **DR. ZIEMER:** Okay, thank you, Jim. We'll open
25 the floor for questions. Let me begin by

1 asking you to clarify on the -- I think you
2 characterized some of the early inhalations as
3 episodic, in a sense, and what -- what
4 implication does that have for these folks that
5 are on the less-than-250-day category as far as
6 internal dose is concerned?

7 **DR. NETON:** If a class were added as proposed,
8 anyone with less than 250 days exposure at the
9 Pacific Proving Grounds would have to be --
10 have their dose reconstructed by NIOSH. If we
11 couldn't reconstruct the internal dose, which
12 we're saying we can't, we would reconstruct as
13 much dose as we could, which would be any
14 external dose, medical dose -- you know, the
15 remaining pieces that we could -- we could do
16 to figure out what their exposures were.

17 **DR. ZIEMER:** Well, let me ask it in a somewhat
18 different way, as well. Is there any
19 indication of what kind of an internal dose
20 someone might get, even in a sort of a
21 theoretical episodic event? I don't have a
22 good feel for what kind of an intake one could
23 have, and this would presumably be early on
24 with the -- the fallout with a lot of the
25 short-lived stuff and so on...

1 **DR. NETON:** It really depends, and this is one
2 of the issues, on the weather pattern, what
3 happened, the type of shots --

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

5 **DR. NETON:** -- but the doses are not in the --
6 the extremely high range, I guess, if that's
7 what you're asking.

8 **DR. ZIEMER:** Yeah, that's really what I'm
9 asking.

10 **DR. NETON:** Not acute doses.

11 **DR. ZIEMER:** The episodic inhalations --

12 **DR. NETON:** Episodic, right.

13 **DR. ZIEMER:** -- result in doses that were --

14 **DR. NETON:** Sufficient -- sufficient to
15 endanger their health, but not in the scenario
16 where you're in the hundreds of rem range.

17 **MS. MUNN:**

18 **DR. NETON:** Lower ranges of rem highest.

19 **DR. ZIEMER:** Dr. Melius.

20 **DR. MELIUS:** Yeah, just following up on that in
21 two ways, I guess, though, there were -- given
22 the number of tests that were done, it's
23 certainly possible for someone to have multiple
24 episodic exposures, which makes this more -- I
25 guess more complicated to -- to -- to address

1 and so forth. What are the criteria that --
2 for the presumptive cancers in terms of any
3 time limit, whatever, that would be applied by
4 -- under the DTRA program?

5 **DR. NETON:** I don't know the answer to that.
6 What, if there is a -- a presence time DTRA?

7 **DR. MELIUS:** Presence, yeah.

8 **DR. NETON:** Larry Elliott, my boss, says
9 presence, and I think that's right.

10 **DR. ZIEMER:** Dr. DeHart?

11 **DR. DEHART:** Do we have a feel for how well the
12 environmental doses have been monitored and
13 documented in those sites over time?

14 **DR. NETON:** There certainly have been a number
15 of environmental assessment of the islands in
16 more recent history, but if you remember -- if
17 you recall, a lot of these were short-lived
18 radionuclides, you know, would not be present
19 in the environment -- temporary -- temporary
20 period, but I know a lot of work has been done
21 there, but I'm not familiar with the extent of
22 it. SC&A I know has a lot of knowledge of the
23 environmental operations at the -- at the
24 islands, but I don't have first-hand knowledge.

25 **MR. PRESLEY:** Hey, Jim --

1 **DR. DEHART:** Would one estimate dose, comparing
2 it to where we are, Denver, where we have a
3 higher radiation exposure at 5,000 feet, on
4 those islands -- any -- any feel at all as to
5 isotope contamination and radiation levels and
6 living in it, it's 24 hours a day.

7 **DR. NETON:** During the time frame that we're
8 talking about, we have no evidence of those
9 values.

10 **DR. ZIEMER:** But certainly the islands that got
11 direct fallout, such as the -- was it Ene-- no,
12 it was Rongelap, I think, they ex-- excavated
13 the island -- they evacuated the -- all the
14 inhabitants.

15 I think Dr. Melius was next, and then Dr.
16 Roessler.

17 **DR. MELIUS:** Yeah, I'd like to actually follow
18 up with Roy's point. The last -- at the last
19 meeting when we discussed this, we talked about
20 possibility of adjusting the 250 days to take
21 into account the residence and now -- that
22 actually their work days were -- were much
23 longer. Has that issue been explored? I mean
24 you seem to be indicating that 250 days of work
25 was required, and I thought that's the -- the

1 way that you went through the -- the employment
2 histories was 250 days, assuming an 8-hour day,
3 I mean for --

4 **DR. NETON:** Yeah, that's correct.

5 **DR. MELIUS:** -- calculation purposes.

6 **DR. NETON:** We thought about that and I believe
7 we discussed this a little bit yesterday, and
8 it's more in the policy area and I'd like to
9 refer that question to Larry on that.

10 **DR. ZIEMER:** Yes, this was the issue discussed
11 yesterday a little bit. It's the -- it's the
12 idea of -- are you talking about 250 8-hour
13 days and do you do a weighted --

14 **DR. NETON:** Right. Yeah, I think I understand.
15 For example, if one were to --

16 **DR. ZIEMER:** So if you were there --

17 **DR. NETON:** -- assume 24/7 --

18 **DR. ZIEMER:** -- 24 hours a day, then you've got
19 --

20 **DR. NETON:** -- you might end up with 80 days or
21 something like that.

22 **DR. WADE:** We're not prepared to speak to it
23 from a policy point of view. I don't have my
24 hands on the data and, you know, Dr. Melius's
25 question is going to what the data would show.

1 We'd have to look into that, but you know, in
2 discussion with the Secretary and his advisors
3 and the legal team, the rule itself talks about
4 250 work days. It does not define work days.
5 The Secretary would certainly be willing to
6 accept a recommendation -- to consider a
7 recommendation from the Board that attempted to
8 deal with this issue of work days being eight
9 hours versus a situation where people were
10 resident there. And if the Board wanted to
11 make a recommendation based upon that logic,
12 that science, the Secretary would be more than
13 willing to receive that recommendation and
14 consider it. So there's nothing that precludes
15 the Board from taking that into consideration
16 as it would like and making its recommendation
17 to the Secretary.

18 Similarly, if you look at the other provision
19 for health endangerment, it goes to -- and I'll
20 read -- for classes of employees that may have
21 been exposed to radiation during discrete
22 incidents likely to have involved exceptionally
23 high-level exposures such as nuclear
24 criticality events, or other events involving
25 similarly high levels of exposure.

1 So again, I think there is room for the Board
2 to consider this issue of a recommendation
3 different than the NIOSH recommendation as it
4 relates to the health endangerment
5 consideration. My only caution to you is if
6 you do that, make sure that your recommendation
7 to the Secretary is clear and based upon
8 foundation, and -- and I think it's open for
9 the Board's consideration.

10 **DR. NETON:** Aside from the policy issue, I mean
11 I have this cumulative frequency draft which,
12 if you look at, if one were to make some
13 assumption that 24 hours a day were going to be
14 considered a work day and that might put their
15 days of covered exposure down somewhere around
16 80, if one extrapolates off this graph it looks
17 to me like it might double the size of the
18 covered population -- or move it down to around
19 20 -- 80 percent of the workers would meet that
20 -- 80 percent of the cases would meet that
21 requirements. That's just a rough -- you know,
22 off a graph, but certainly increase the --
23 expand the size of the covered -- covered
24 class.

25 **DR. WADE:** I do think -- if I could have one

1 more comment. I do think that -- at -- at the
2 last discussion Robert Presley, who was -- who
3 has lived through some of these things, made
4 some comments, and I would like to be sure that
5 Robert's on the line and -- and if he has
6 comments to make that we could hear his
7 comments.

8 **MR. PRESLEY:** Yes, I would. Can you hear me?

9 **DR. ZIEMER:** Yes, go ahead, Robert.

10 **MR. PRESLEY:** Can you hear me?

11 **DR. ZIEMER:** Yes, go ahead. Can he hear us?
12 Can you hear us?

13 **MR. PRESLEY:** Yeah, now I can.

14 **DR. ZIEMER:** Go ahead. Go ahead.

15 **MR. PRESLEY:** I would like to comment on the --
16 on the 80 days. Those people -- I was not
17 there, but I've seen and read documents about
18 the way they lived in the early days. A lot of
19 the people when they were on islands lived in
20 tents. They were exposed. It was very, very
21 hot. They didn't have any rules about wearing
22 shirts. A lot of them wore shirts -- or wore
23 shorts and no shirts. With the amount of sand
24 and small particles blowing around and living
25 in tents, you would be exposed to the elements

1 24 day -- or 24 hours, 7 days a week. And I'll
2 stop right there.

3 **DR. ZIEMER:** Thank you. Jim -- of course if
4 we're talking about internal dose, regardless
5 of that parameter, internal's always 24/7
6 anyway, so you wouldn't weight that, but is the
7 external a driver here on these or not? I
8 think you were saying the internal would be a
9 driver on most of these.

10 **DR. NETON:** Internal is why -- what we're
11 proposing -- the reason --

12 **DR. ZIEMER:** If the internal's the driver, then
13 it's not any different from someone working in
14 a lab, regardless of --

15 **DR. NETON:** No, no, I think -- there's an
16 inhalation of 24 hours a day. The source term
17 doesn't go away for them. If you work in a
18 laboratory, you go home and --

19 **DR. ZIEMER:** Oh, yeah, yeah, yeah -- yeah --

20 **DR. NETON:** -- exposure, but --

21 **DR. ZIEMER:** Yeah, yeah.

22 **MR. PRESLEY:** These people lived a short
23 distance from -- from some of this stuff, and
24 they were right on it, 24/7.

25 **DR. NETON:** We're talking about the inhalation,

1 fallout and resuspension.

2 **DR. MELIUS:** Yeah, the -- the other question I
3 have then, then I'll let Gen get her question
4 in, but is really related and that's the
5 question of the class definition of monitored
6 or should have been monitored or -- you talked
7 about it a little bit, Jim, but -- but I'm just
8 wondering how -- how is it going to be possible
9 to make that separation here? I mean I --
10 sounded to me like most people were monitored.
11 There may be some people, by nature of their
12 employment, that -- that weren't -- weren't
13 employed there -- I -- I guess -- I think we
14 just need to be careful about how we define
15 that so that we -- I -- I'm not sure that's --
16 we need to make -- make sure there's an
17 understanding of what that means in this
18 particular instance 'cause it would seem to me
19 that most people that were, quote, living there
20 and support personnel, you know, should have
21 been monitored, I guess is the -- so --

22 **DR. NETON:** That's true. I don't want to
23 speak for the Department of Labor and how they
24 qualify the cases based on the class
25 definition, but I think the intent is that

1 people who actually physically worked on the
2 island --

3 **DR. MELIUS:** Yeah.

4 **DR. NETON:** -- were present on the island doing
5 activities versus someone who may be --
6 couriers that may be -- depends on what you
7 mean by working the Pacific Proving Grounds.

8 **DR. MELIUS:** Yeah.

9 **DR. NETON:** There could be someone a thousand
10 miles away had worked on a Pacific Proving
11 Grounds project, never set foot on the island -
12 -

13 **DR. MELIUS:** Right, and so that employment
14 classifications that might normally not -- we
15 would not consider to be "should be monitored"
16 at a fixed facility whatev-- whatever, you have
17 courier or whatever that -- that -- in this
18 case, people that were working on the island,
19 so maybe the -- the definition would be better
20 if we made it physical presence rather than
21 monitored/not monitored. And I know Pete's
22 going to give a presentation later on that --
23 some of these definitions, and maybe we will
24 save that question for him, also, but I'm just
25 trying to get a sense of -- of the -- the

1 nature of the information on the group.

2 **DR. ZIEMER:** Thank you. Gen Roessler.

3 **DR. ROESSLER:** I was going to -- oops, this is
4 kind of bad. Can you hear me okay?

5 I was going to point out the 24/7 exposure to
6 internal and external which has just come up,
7 and I think based on what Bob Presley has said
8 and the answer you got to your question from
9 Jim, I think that's something we need to look
10 at. And then I was going to ask about the
11 number of people who would be included if there
12 were some adjustment to what I would call a 20
13 -- 250-day equivalent, which maybe is
14 considered about 80 days, and I think the
15 answer -- and I would just like to have Jim say
16 it again -- the difference would go from 46
17 percent of the population to did you say 80?

18 **DR. NETON:** Yes.

19 **DR. ROESSLER:** That would include 80 percent --

20 **DR. NETON:** a rough number I'm just reading
21 off this graph in front of you, but if you read
22 over --

23 **DR. ZIEMER:** Read down to 80 days.

24 **DR. NETON:** -- you read down to 80 and up --
25 and over to the Y axis, it looks to me around

1 20 percent in that way.

2 **DR. ROESSLER:** Okay, that --

3 **DR. NETON:** Or 20 percent --

4 **DR. ROESSLER:** I just wanted to verify all of
5 that.

6 **DR. NETON:** More than the -- yeah, more than --
7 80 -- 80 percent or more had more than 80 days.

8 **DR. ROESSLER:** Okay.

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

10 **DR. MELIUS:** Would just add --

11 **DR. ZIEMER:** Yes, Dr. Melius.

12 **DR. MELIUS:** -- another comment, I -- and
13 that's addressing the issue of the DTRA
14 documents and so forth. I think at our -- our
15 last meeting we had raised concerns -- we
16 wanted more information about those documents
17 and the schedule for those -- those documents,
18 and I appreciate the efforts that -- that NIOSH
19 made to obtain that information. And my
20 reading of it in -- from Jim's presentation is
21 that it -- number one is that those documents
22 that would be relevant to our consideration of
23 the Special Exposure Cohort are -- are many
24 month or, you know, at least over a year away
25 from us being able to evaluate them. Number

1 two, that it is doubtful that certain -- that
2 certain key areas of evaluation are not being
3 undertaken, for various reasons, within DTRA,
4 so even if we waited a year or more it's not
5 clear that we would have an adequate amount of
6 information to make it -- assessment on the
7 adequacy of any internal dose reconstruction.
8 Just wanted to confirm -- you, Jim, if that's a
9 -- appropriate conclusion based on what you
10 presented to us, I --

11 **DR. NETON:** I would agree with you, many
12 months. I don't know if I -- a year, I -- it
13 would be speculative to say it could be more --
14 a year or more, but it would be certainly many
15 months down the line.

16 **DR. ZIEMER:** Larry Elliott has a comment on
17 that.

18 **MR. ELLIOTT:** I've had a number of
19 conversations with Dr. Blake since our last --
20 your last Board meeting and pursuing whether we
21 could get our hands on the draft information,
22 as you see in the letters that were provided to
23 you this morning. And I apologize for that;
24 they were to be copied yesterday but Kinko's
25 somehow didn't get those produced in time. At

1 **MS. KARO:** Thank you. I have a question
2 regarding the 250 days. Is it an option or is
3 it a standard? And the reason why I'm asking
4 that is that it is my impression, and please
5 correct me if I'm wrong, that the Amchitka
6 people who already is part of the Special
7 Exposure Cohort, that there there was no
8 requirement for them for these 250 days
9 aggregating over these 250 work days, so please
10 kind of give me an idea of what the -- you
11 know, clear this for me.

12 **DR. ZIEMER:** Okay. Danielle, I'm not sure we
13 heard all of that question. We're having some
14 difficulty with the sound here.

15 **MS. KARO:** Oh --

16 **DR. ZIEMER:** I'm going to have to ask you to
17 repeat it.

18 **MS. KARO:** Definitely.

19 **DR. ZIEMER:** You may have to actually talk a
20 little louder, as well, if you would, please.

21 **MS. KARO:** Yes, I'm trying to. Can you hear me
22 now?

23 **DR. ZIEMER:** Yeah, go ahead.

24 **MS. KARO:** Yes, my question is regarding the
25 work days aggregating at least 250 work days.

1 Is -- is it an option or is it a standard? The
2 reason I'm asking is there was some
3 inconsistency, simply because I have become
4 aware -- and please correct me if I'm wrong --
5 that the Special Exposure Cohort regarding the
6 Amchitka place in Alaska has no requirement for
7 the 250 days.

8 **DR. ZIEMER:** I believe that is a correct
9 statement on the Alaska facility.

10 **MS. KARO:** Right.

11 **DR. ZIEMER:** NIOSH, can you add to that -- Jim
12 Neton?

13 **DR. NETON:** For Amchitka Island (inaudible)
14 legislatively created by Congress, and we --
15 we're working on this analysis under our rule
16 42 CFR Part 83, which has a default of 250
17 days' duration; or presence, if we can
18 determine that a very large accident occurred
19 where a person would be irradiated at the level
20 of a criticality incident, and our analysis of
21 this cohort found no evidence of that.

22 **MS. KARO:** The only question that I have then -
23 - is there a good scientific reason to arrive
24 to this number of 250 days? Is there any
25 science substantiating the need for that? And

1 I'm asking this because obviously the National
2 Academy found recently that even lower
3 radiation poses risk. In other words, even the
4 smallest dose of low-level ionizing radiation
5 has a potential to cause an increase in health
6 risk to humans, so how do we reconcile this?
7 You're talking about criticality and high
8 doses, and yet we're -- you know, the National
9 Academy of Sciences is saying even very small
10 amounts, you know, pose risk.

11 **DR. NETON:** All I can say is that the health
12 endangerment criteria established in our rule
13 was -- was vetted through the -- through the
14 regular channels. It was published for public
15 comment. We took public comment on this. The
16 250 days is consistent with the legislatively-
17 added cohorts. But I cannot exactly point to a
18 number of dose -- you know, the dose number
19 that would equate to 250 days for health
20 endangerment. It was adopted in our regulation
21 and is consistent with the Congressionally-
22 mandated cohorts.

23 **MS. KARO:** I see. And -- and so it is written
24 in stone? Could it be modified? Because it
25 sounds to me -- from what I hear is that really

1 there isn't any good scientific reason -- or at
2 least that's my -- kind of my -- my
3 determination here, that it was legislated and
4 it was a determination, but is it -- was it
5 done at random, was it done for -- with good
6 scientific -- for good scientific reason? I
7 don't hear that.

8 **DR. ZIEMER:** Let the Chair attempt to answer
9 that in part. There is a certain arbitrariness
10 to the number. I don't think we can speculate
11 exactly how it was determined in the
12 Congressional language to begin with. There
13 probably is a practical aspect to it, though.
14 The National Academy report that you're
15 referring to is one that talks about linear
16 known threshold hypothesis for radiation
17 effects that at least hypothesizes, and it's
18 never been demonstrated in health effects, that
19 the lowest dose may produce an effect. And in
20 a practical sense, doses that bring the effects
21 that we're talking about are more than trivial
22 doses in terms of these probabilities.

23 **MS. KARO:** Right.

24 **DR. ZIEMER:** Even if we were to calculate the
25 probability of a millirem on here, it would

1 have no impact on the final decision. So those
2 theoretical issues may be there, but in a
3 practical sense, for a person to get enough
4 dose to reach the probabilities that we're
5 talking about based on the risk coefficients --
6 which also assume that same kind of linearity -
7 - you have to have a reasonable amount of
8 exposure. And in the absence of monitoring
9 data in many of these facilities, based on
10 practical experience, we know that a person
11 who's only been there -- unless it's an
12 episodic event -- only been there a brief time
13 is not likely to have reached these sort of
14 thresholds for -- for reaching the right
15 probability. So there's a kind of practical
16 aspect to it, but it nonetheless has a degree
17 of arbitrariness, as well.

18 **MS. KARO:** Uh-huh.

19 **DR. ZIEMER:** But be that as it may, Danielle,
20 do you have some additional comments on the
21 petition itself?

22 **MS. KARO:** Well, the only comments I have was
23 that obviously the lengthiness of the process,
24 and I'm not talking specific to the -- to this,
25 you know, issue of the establishing the PPG as

1 a Special Exposure Cohort, but obviously I -- I
2 have a husband who passed away a number of
3 years ago and -- and I applied for compensation
4 for in July of 2001 and here I am five years
5 later and I'm not closer to a resolution at
6 all. So I guess there is an element of
7 timeliness.

8 **DR. ZIEMER:** Yes, thank you. And actually that
9 element of timeliness is one of the concerns
10 that has been raised here today in terms of any
11 delay that might be represented by awaiting the
12 outcome of the DTRA studies, so that's an issue
13 for the Board, as well, to consider.

14 **MS. KARO:** And the other question, if you don't
15 mind and then I will shut up, is the fact that
16 if indeed the person involved does not meet
17 this requirement or this arbitrariness of 250
18 days equivalence, then they will have to have a
19 dose reconstructed, and it sounds to me like
20 we're falling back onto the situation where
21 inhalation and internal dosages would be
22 difficult to establish. So even if a person is
23 not going to be included in -- in the Special
24 Exposure Cohort because they have not served
25 for 250 days equivalence, how are they going to

1 -- if the dose needs to be reconstructed, what
2 kind of formulas and what kind of calculations
3 will be used when in fact it's been established
4 that it's very difficult to figure out the
5 inhalation doses.

6 **DR. NETON:** That's a very good question.

7 **DR. ZIEMER:** Dr. Neton.

8 **DR. NETON:** The answer is that if we make the
9 determination that inhalation doses cannot be
10 reconstructed, the remaining cases that were
11 forwarded to us for dose reconstruction would
12 be partial reconstructions. That is, we would
13 only reconstruct the doses we could -- we could
14 do with sufficient accuracy, and that would end
15 up being the external dosimetry component and
16 any medical exposures that may have occurred.
17 The inhalation doses would not be considered in
18 those dose reconstructions because, by
19 definition, we couldn't reconstruct them.

20 **MS. KARO:** And then how are you going to be
21 able to make a decision based on a partial
22 reconstruction?

23 **DR. NETON:** The decision would be based solely
24 on the -- the outcome of the partial dose
25 reconstruction.

1 **MS. KARO:** Thank you.

2 **DR. ZIEMER:** Danielle, do you have any further
3 questions or comments?

4 **MS. KARO:** No. No, thank you for --

5 **DR. ZIEMER:** Thank you very much for being with
6 us today.

7 **MS. KARO:** Thank you for allowing me to -- to -

8 **BOARD DISCUSSION**

9 **DR. ZIEMER:** Now again, Board, is there further
10 discussion on this particular issue?

11 Dr. Melius.

12 **DR. MELIUS:** Yeah, I would -- it's not a motion
13 yet, this is for discussion.

14 **DR. ZIEMER:** Yeah.

15 **DR. MELIUS:** Okay? I would propose that we go
16 forward, we -- I would be in favor of approving
17 this Special Exposure Cohort petition, the --
18 that there be some adjustment for the fact that
19 people lived on the site so I think we need to
20 explicitly address that -- that issue. I am
21 disturbed, though, about the -- the sort of the
22 inconsistency between this -- our approach and
23 what we're allowing and the DTRA program, and -
24 - in terms of the people with what may turn out
25 to be less than 80 days of -- of a dose, and I

1 would suggest that -- and this is going to come
2 up in Nevada Test Site, too, so it's -- it's
3 something I think we should try to address.
4 And I would think that -- I would like to ask
5 NIOSH to do some further work to describe tho--
6 those people and better describe the population
7 in terms of those with short-term exposure.
8 And -- and I think we need to, you know, try to
9 determine, you know, what's the appropriate
10 approach for dealing with this episodic
11 exposure such as here and at the Nevada Test
12 Site. It may be that -- I guess I'm disturbed
13 that we're ignoring the -- one of the -- you
14 know, major sources that are dose (sic). We
15 can deal with external if we just do a straight
16 dose reconstruction, but not with the internal.
17 It may be that some of the information from the
18 reports that DTRA is working on might help us
19 better understand the endangerment issue,
20 though still might not be sufficient for full
21 dose reconstruction the way we have approached
22 it.

23 I also think we have to keep in mind that the
24 Congressional intent, when this law was passed,
25 did make a separation between Amchitka and the

1 other Congressionally-mandated Special Exposure
2 Cohorts, and presence at Amchitka was
3 considered sufficient and 250 days was required
4 -- required for -- for the others. And I think
5 that was some recognition of having -- making
6 Amchitka consistent with the program with the
7 veterans, also was, you know, recognition that
8 that was a different situation and that -- that
9 if we -- if we were following sort of our
10 logic, at least part of the rationale for when
11 we did the 250 days in the health endangerment
12 portion of our regulation for Special Exposure
13 Cohorts, then that was based on well, we were
14 paralleling the -- the -- what Congress had
15 done. Well, if we were following that, then --
16 if we were paralleling Congress on a site where
17 atomic weapons were exploded, like Amchitka,
18 then Pacific Proving Ground and Nevada Test
19 Site, one might have a different criteria for --
20 - for health endangerment. I don't think we
21 have enough information to -- to make a
22 judgment on that, but I do think that we need
23 to do further work and we should re-- should
24 re-- explicitly reserve that issue in our
25 recommendation.

1 **DR. ZIEMER:** Thank you. Roy DeHart.

2 **DR. DEHART:** Basically your last sentence is
3 what I was going to speak to. We have in the
4 past identified members of a cohort as to
5 different time elements, and certainly we could
6 do that in this situation if it were the
7 Board's intent to separate, so that we do have
8 time to look at the issues of less than 250
9 days. And I would recommend that we give
10 thought to approving the 250-day, with a second
11 criteria to continue to research and determine
12 what to do with those individuals who have not
13 reached that number of days.

14 **DR. MELIUS:** So -- so you -- I guess where we
15 differ is I would be willing at this point to
16 include some adjustment for people living on
17 the island, so I'd cut 250 by three to make
18 that -- and I think that a -- there may be
19 theoretically a way of doing that adjustment
20 better, but I'm not sure that there's adequate
21 information to be able to -- to do that. I
22 think we just have to be careful that when we
23 define the cohort that those that would meet
24 the -- the 83-day criteria, or whatever it is,
25 would be able to -- would actually be present

1 at -- on -- in an area where there was
2 endangerment, I guess is putting it
3 theoretically, and do that as not someone that
4 was, you know, shipped in and out or -- or
5 whatever, that we do make sure it's
6 appropriate. I'm not sure that it's going to
7 be possible to do a -- a better adjustment that
8 -- you know, depending on where they -- their
9 activities or exactly where they worked and
10 lived and so forth, based on the available
11 information.

12 **DR. ZIEMER:** Actually -- and let me interject
13 here and get a kind of procedural question --
14 if, for example, the Board were to approve or
15 recommend approval of this petition, either in
16 its present form or with a weighted 250-day or
17 something like that, and if later -- say a year
18 from now -- we learn something from the DTRA
19 studies and other information that would impact
20 on the issue of the episodic events, is -- is
21 the -- is the door closed to considering that
22 part of the population again separately as...
23 See, the analogy made with Amchitka, I -- was
24 that an underground test?

25 **DR. MELIUS:** That's underground.

1 **DR. ZIEMER:** That was underground.

2 **MR. ELLIOTT:** It was an underground test.

3 **DR. ZIEMER:** And there are a lot of differences
4 there between that and these tests in terms of
5 the nature of the exposures to the people, so
6 I'm not sure that's a good analogy. I'm not
7 saying it isn't a good analogy, but the fact
8 that it was a weapons test per se I don't
9 think, to me, makes the argument that they are
10 necessarily the same.

11 **DR. MELIUS:** I think it was an -- I read it as
12 sort of as a -- the dealing with an episodic
13 exposure in terms of the facility --

14 **DR. ZIEMER:** I understand what you're saying.

15 **DR. MELIUS:** And it's a little more complicated
16 'cause I think another factor, frankly, was
17 that people lived on that island, you know --

18 **DR. ZIEMER:** Yeah.

19 **DR. MELIUS:** -- didn't have any place --

20 **DR. ZIEMER:** Yeah.

21 **DR. MELIUS:** -- else to go, so --

22 **DR. ZIEMER:** Yeah. Yeah, there's always
23 differences and --

24 **MR. ELLIOTT:** It was an episodic event. It was
25 an underground test. And you know, I certainly

1 don't know the intent of Congress and how they
2 wrote that, but what we do know from our
3 understanding of the experience, that they sent
4 people back down into those -- into the shaft
5 to collect information, and certainly there was
6 exposure in that experience.

7 Now back to your question, Dr. Ziemer, I can't
8 recall anything in the rule that says a class
9 could not be revisited, that it stands, you
10 know, in concrete at a given point in time. I
11 would think that we would be able to revisit a
12 class, particularly with this type of context
13 where new information may come to light that
14 would change an understanding about health
15 endangerment. Certainly if that were to be the
16 case, we would have to work with DOL and review
17 all of those cases that had been -- that DOL
18 had adjudicated under the, you know, previous
19 class definition.

20 I would only -- I would offer this in -- as a
21 further comment. We present to you a
22 recommendation that is bounded by our -- the
23 words in our rule, 250 days or presence. DTRA
24 uses presence. They -- they know where their
25 veterans were, which shots they participated in

1 and what their roles were, and they have very
2 clear evidence of that. They understand, you
3 know -- you know, whether it was a Navy SEABEE
4 or whether it was a -- Navy personnel on a ship
5 that was stationed and adjacent to the shot,
6 whether it was somebody they marched in after
7 the aerial shot at Nevada Test Site. They have
8 that kind of information. We have a much more
9 difficult time in creating a work history for -
10 - for the claimants in this program, and
11 especially those claimants who have -- have
12 left us and passed on and the survivors may
13 have never been told what -- what those folks
14 really did in a given event.

15 **MS. SCHUBERT:** (Via telephone) Excuse me, is
16 this --

17 **MR. ELLIOTT:** You know, I -- you know, I can't
18 -- I can't advise the Board on -- on this any
19 more than just to say, you know, the way we
20 brought it to you was 250 days. If the Board
21 says presence is the way it should go, I'm sure
22 the Secretary would consider that in his -- his
23 deliberation.

24 **MS. SCHUBERT:** Is it possible for a member of
25 the public to ask a question about this?

1 **DR. ZIEMER:** Hang on just a minute. We need to
2 turn your volume up here. Could you repeat
3 that?

4 **MS. SCHUBERT:** Is it possible to ask a question
5 of clarification --

6 **DR. ZIEMER:** You certainly can. You certainly
7 can.

8 **MS. SCHUBERT:** My name is Sandra Schubert. I
9 work for Senator Reid, and I have a question
10 about sort of what's being discussed because of
11 possible Presidential/residential* impact on
12 the discussion about the Nevada Test Site. I
13 have talked to a couple of people, including
14 within NIOSH, about this very issue about if a
15 decision is made on an SEC as it's being
16 proposed here and in NIOSH that in our mind I
17 would say does not include episodic events such
18 as nuclear explosions, and we're hard-pressed
19 to find out -- to understand what would be a
20 critical event if not a nuclear bomb exploding.
21 But the way it was explained to us that that
22 would not preclude expanding the class at a
23 later date. There was no ex-- no statement in
24 my conversations that additional information
25 would have to be brought forward, but rather

1 than since it wasn't proposed here, there was
2 nothing that precludes it, even based on the
3 current information and further discussion of
4 it, from being considered at a later date. It
5 sounds like the gentleman who just spoke, and I
6 don't know who it is, is saying something
7 significantly different, that it can only be
8 addressed if there's additional information,
9 and that is explicitly different than what I
10 have been told.

11 **DR. ZIEMER:** That was Larry Elliott, and let
12 him clarify that for you.

13 **MR. ELLIOTT:** Yeah. Yes, ma'am, I was
14 answering Dr. Ziemer's question as to whether
15 or not if -- if the DTRA information led us to
16 a different understanding for PPG and specific
17 to that petition. Your question I believe was
18 raised with regard to the Nevada Test Site and
19 whether or not -- if that class is awarded, can
20 another petition come forward to expand that
21 class or to --

22 **MS. SCHUBERT:** That's not --

23 **MR. ELLIOTT:** -- redefine that class, and
24 certainly a person -- anybody can -- can
25 provide a petition and the basis that they

1 submit with that petition would be evaluated
2 and --

3 **MS. SCHUBERT:** That actually is not the
4 question. The question is whether, based on
5 the information in the particular petition
6 before the Board, if they consider -- can they
7 go forward with an SEC recommendation without
8 closing off any other possible interpretations
9 of what that cohort may be. For instance, can
10 they determine today that they're going to
11 grant an SEC based on 250 days or 80 days,
12 depending on what you're talking about, and
13 then revisit that very same petition perhaps in
14 a few weeks to discuss the issue of less than
15 the 250-day or the 80-day limit. I have been
16 told in conversations just in the last couple
17 of days that that can be done. It sounds as
18 though what you're saying is no, you would
19 interpret that this petition is closed and
20 another SEC petition would have to be received.
21 Those are two very distinct things, and I think
22 it's important to clarify.

23 **MR. ELLIOTT:** Yes, I -- I understand the
24 importance to clarify this. The petition that
25 we would -- that would be closed based upon the

1 Board's recommendation to the Secretary and the
2 Secretary making a designation, that petition -
3 - I would need to talk to legal counsel about
4 that, but the petitioner can appeal the health
5 endangerment designation. We've had one
6 instance of that already. There's a panel that
7 would -- an appeal panel that would take that
8 up.

9 **MS. SCHUBERT:** So you're saying, though, that
10 the Board itself cannot make a recommendation
11 and keep further discussion open.

12 **MR. ELLIOTT:** No, they can.

13 **DR. MELIUS:** And actually --

14 **MR. ELLIOTT:** They can.

15 **DR. MELIUS:** Can I speak?

16 **DR. ZIEMER:** Yeah, and for the Court Reporter,
17 I think -- Ray, I don't know if you got the
18 individual's name here. This is not Danielle
19 Karo who's speaking.

20 **MS. SCHUBERT:** No, I'm just trying to
21 understand --

22 **DR. ZIEMER:** This is I think maybe Sandi
23 Schubert from Senator Reid's office. Is that
24 correct?

25 **MS. SCHUBERT:** Yes, it is.

1 **DR. ZIEMER:** Okay, Sandi, thank you. Jim
2 Melius wants to speak to that point, as well.

3 **DR. MELIUS:** I think in the past we've
4 essentially split petitions, and we've made
5 determinations on part of a petition or --
6 determination and then we've reserved and kept
7 working on another aspect of it --

8 **MR. ELLIOTT:** Yes, we have.

9 **DR. MELIUS:** -- so we -- so we wouldn't be in a
10 situation for someone have to re-- appeal or
11 re-petition, and I'd propose that we just keep
12 open the question -- you know, explicitly say
13 in our letter to the Secretary that we're
14 keeping open this issue of the episodic
15 exposure and -- and, you know, awaiting further
16 information on -- on that, and I think that's
17 consistent with what we've done before and
18 would allow us to -- to move forward on this
19 without, you know, requiring a new petition or
20 an appeal or anything.

21 **MR. ELLIOTT:** Yes, certainly you can do that,
22 and we have precedent to that effect.

23 **DR. ZIEMER:** And perhaps --

24 **MR. ELLIOTT:** That's not the question as I
25 understood it --

1 **DR. MELIUS:** Yeah, it -- no.

2 **MR. ELLIOTT:** -- from Ms. Schubert.

3 **DR. ZIEMER:** And I assume Sandi's question may
4 pertain more specifically to the Nevada Test
5 Site. I'm not aware that it would close any
6 doors for expanding an SEC, either in terms of
7 time, if -- or location or whatever.

8 **MS. SCHUBERT:** I appreciate that very much.

9 **MR. ELLIOTT:** I believe you're right, Dr.
10 Ziemer. That is correct.

11 **DR. WADE:** When we talk about Nevada Test Site
12 -- this is Lew Wade -- we need to get this very
13 clearly on the record because, again, it is
14 import-- an important issue --

15 **DR. ZIEMER:** Yeah.

16 **DR. WADE:** -- but let's continue.

17 **DR. ZIEMER:** Okay. Thank you. Pete Turcic
18 from the Department of Labor has a comment.
19 Pete.

20 **MR. TURCIC:** Thank you, Dr. Ziemer. I just
21 want to point out that in practice the way we
22 apply the 250 days in a situation to be
23 consistent with what we do with all the SECs,
24 to be consistent, it would in fact be the 83
25 days or whatever if someone was there around

1 the clock.

2 The caution I want to make is that if -- if the
3 petition is approved with something other than
4 the 250 days -- and again, in practice it would
5 be the 83 days in applying it -- then we may
6 have a real legal issue and our hands may be
7 tied until the NIOSH reg is revised to allow
8 something different. So you know, the point
9 that -- the point that I'm making that in
10 practice if someone lived at the site, then
11 just as we address, you know, issues of
12 overtime, we pro rate that so that if they were
13 there 24 hours a day it would be the 250
14 divided by three in practice. If the petition
15 -- and I don't know -- would become a legal
16 issue, if a petition is -- a class is
17 established with less than the 250 days, we may
18 be in a bind to proceed with that until the
19 NIOSH reg was changed in order to allow that to
20 happen.

21 **DR. ZIEMER:** Thank you, Pete, that I think is a
22 new piece of information that is important for
23 us to hear. I'm not sure any of us realized
24 that that in practice was how this was carried
25 out. So you are already doing what has been

1 suggested here and weighting the times
2 accordingly. Has that actually show up in
3 other petitions to be --

4 **UNIDENTIFIED:** Quite a bit.

5 **DR. ZIEMER:** Oh, it has? Okay. So in practice
6 what we're going to see if we approve a 250 is
7 in practice the 83 days for these people.

8 **DR. MELIUS:** But -- can I just ask Pete a quick
9 -- but there would be no prob-- problem if we
10 explicitly pointed the -- out the need to take
11 that into account.

12 **MR. TURCIC:** No, no problem.

13 **DR. MELIUS:** Yeah.

14 **DR. ZIEMER:** Or that it's our understanding
15 that this is how it would be done.

16 **DR. MELIUS:** Well, yeah, something to that
17 effect, yeah.

18 **DR. ZIEMER:** Roy DeHart and then Michael
19 Gibson.

20 **DR. DEHART:** And then we would still include a
21 separation for those who would be less than the
22 250 days -- or the 83, as the case may be -- so
23 that we can continue to pursue that, leave that
24 open. Yeah.

25 **DR. ZIEMER:** Michael.

1 **MR. GIBSON:** Just a question for Department of
2 Labor. If this has been the practice or -- in
3 the past that you've pro-rated the time based
4 on overtime, et cetera, have you run into legal
5 issues and have those had to be delayed until
6 legal made a determination and/or NIOSH changed
7 the regulations in the past?

8 **MR. TURCIC:** No. It's not an issue because it
9 is 250 days, and then when -- the way we --

10 **UNIDENTIFIED:** We can't hear.

11 **MR. TURCIC:** -- 250 days...

12 **MS. MUNN:** You need a mike.

13 **DR. ZIEMER:** Just go ahead and repeat that,
14 Pete, so that those on the phone can hear you.

15 **MR. TURCIC:** No, we have not run into any
16 problems --

17 **MR. ELLIOTT:** You have to turn it on.

18 **MR. TURCIC:** We have not run into -- We
19 haven't run into any problems because it is the
20 250 days, and then when we apply the 250 days
21 we consider each day a normal working shift.
22 So you know, if someone was working ten-hour
23 days, we'd take that into account in the
24 calculation of the 250 days.

25 **DR. ZIEMER:** Good. Okay. Thank you, Pete.

1 Other comments or questions?

2 **DR. WADE:** I'd like to -- this is Lew Wade.
3 I'd like to explore, just for clarification
4 because these issues are so important. Let's
5 assume that the Board votes the motion as we're
6 hearing it, and that is, you know, for people
7 with the 250 working days, add them to the
8 class. For people with less than that, they
9 wish the issue to be kept open pending an
10 understanding of what DTRA might bring to the
11 table from a science point of view.
12 I see two pathways open. One is we would
13 attempt to do partial dose reconstructions for
14 the people who were less than the X days.
15 Those claims might be denied, based upon a
16 partial dose reconstruction. They could be
17 reopened if new information was to come
18 forward. Or you could pend the claims. Is --
19 is there a sense as to which direction you
20 would go down?

21 **MR. ELLIOTT:** I don't know that we -- we
22 haven't -- we haven't had any discussions or
23 thoughts about this in -- in specific, and I'm
24 thinking of the -- I think it would really go
25 to the type of cancer, perhaps, and what dose

1 we can reconstruct in a partial dose
2 reconstruction. And certainly our practice and
3 our policy has been, when we can reconstruct
4 dose to move a claimant toward a decision, we
5 do so. If there's some circumstances or
6 outlying information that would lead to a more
7 accurate dose reconstruction for decision, such
8 as what we're dealing with in construction
9 workers right now -- we're trying to put
10 together a Technical Basis Document that will
11 put them in a better position in their dose
12 reconstructions -- we pend those claims. So it
13 would just depend upon the circumstances of the
14 claim as we would see it based upon our
15 practice right now.

16 **DR. WADE:** Thank you, I just want to get that
17 on the record. I think that's fine.

18 **DR. MELIUS:** Yeah, can -- can I just --

19 **DR. ZIEMER:** Dr. Melius.

20 **DR. MELIUS:** -- yeah, just add -- I would just
21 clarify -- I don't think it's just a question
22 of -- of the DTRA information. I think there's
23 some other information that we may be -- NIOSH
24 may be able to pull together on -- on this
25 issue regarding different job classifications,

1 what information's available, what are the
2 external doses that -- that people experienced
3 there and so forth. I would suggest that we
4 develop a -- maybe a workgroup to work with
5 NIOSH on -- on evaluating this issue and see
6 where we can go with it. I think there's some
7 -- some of the detailed information that Jim
8 had that I think 'cause of privacy concerns
9 can't share in an open meeting, we may be able
10 to -- might -- might be helpful, also -- do
11 that, so...

12 **DR. ZIEMER:** Okay. I'm just taking that right
13 now as an idea.

14 **DR. MELIUS:** Exactly, right.

15 **DR. ZIEMER:** All right.

16 **DR. MELIUS:** Can I have another idea?

17 **DR. ZIEMER:** Yes, another idea. You -- this
18 limits -- you've used your quota of ideas --

19 **DR. MELIUS:** A long time ago, some would say.
20 I would be willing, since I actually started it
21 at the last meeting, to draft up one of our
22 usual letter motions and get that prepared so
23 that we can -- soon as we can get it copied and
24 have further discussion, may be -- I --
25 practically speaking, it'll probably be after

1 lunch, but right after lunch we could discuss
2 it or whenever there's time if that's --

3 **DR. WADE:** We have Board working group tomorrow
4 afternoon.

5 **DR. ZIEMER:** Yeah, we --

6 **DR. WADE:** Certainly then, possibly --

7 **DR. MELIUS:** Whenever you -- whenever.

8 **DR. ZIEMER:** If I understand what you're
9 saying, you are going -- you are prepared to
10 propose a motion to recommend approval of this
11 SEC petition.

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

13 **DR. ZIEMER:** Is that correct?

14 **DR. MELIUS:** Correct.

15 **DR. ZIEMER:** The exact wording you're not yet
16 prepared to present --

17 **DR. MELIUS:** No.

18 **DR. ZIEMER:** -- and therefore would defer
19 actually making such a motion till later in the
20 meeting.

21 **DR. MELIUS:** Correct.

22 **DR. ZIEMER:** Okay. Thank you. So that's just
23 our kind of pending thought that we could
24 expect a motion to approve to come forth a
25 little later in the meeting. Brad Clawson,

1 comment.

2 **MR. CLAWSON:** I just have a question for the
3 Department of Labor, though. You said that
4 you've done it in the past, that you've --
5 you've adjusted the 250 days and what -- what
6 I'm wondering, especially in this Pacific
7 Proving Grounds, how are the petitioners going
8 to know how this was performed? Are you
9 notifying them of -- of this or -- or how are --
10 -- how are we -- you know, do we need to propose
11 it in a way that we make sure this is done,
12 because I think on the Pacific Proving Grounds
13 this is very crucial because the people living
14 there in this 24/7.

15 **MR. TURCIC:** What we would do is that for
16 individuals who lived there, their decision
17 would say that they met the 250-day requirement
18 by -- and it would spell out and refer to the
19 policy, you know, that -- that says that we
20 address and -- and -- you know, how we count
21 the days. And so the -- the decision would
22 specifically say that.

23 Now if there was some -- if there was an
24 individual who maybe they lived on-ship
25 somewhere, you know, and -- and did their --

1 did a normal shift, then that would not apply.
2 So the decision would be very specific, that
3 here's how they met the 250-day -- it would
4 refer to the policy on counting the 250 days
5 and come up with -- you know, if it come out to
6 be 83 days, then they would meet the -- meet
7 the requirements and be put into the class.

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

9 **MR. CLAWSON:** Thank you.

10 **DR. ZIEMER:** Is there any further discussion on
11 the Pacific Proving Grounds? If -- okay, Larry
12 Elliott. Thank you.

13 **MR. ELLIOTT:** I think it's important to follow
14 up on that a little bit more. I'm going to put
15 Pete on the spot here again. For partial dose
16 reconstructions, how would the decision read?
17 I mean you -- a person who was only there for
18 78 days and we do a partial dose
19 reconstruction, so how would -- how would you
20 advise the claimant in that regard?

21 **MR. TURCIC:** Their decision would spell out
22 that they are not a member of the class and
23 explain why they were not a member of the
24 class. And then it would refer to the dose
25 reconstruction and, depending on what that was,

1 whether it was a denial or an approval.

2 **MR. ELLIOTT:** And if they were, would you
3 advise them on a condition (inaudible) cancer
4 in the future?

5 **DR. ZIEMER:** Repeat -- repeat the -- Larry's
6 question, if you would, Pete.

7 **MR. TURCIC:** Yeah, Larry asked if -- if they --
8 if it was a living employee, would we inform
9 them about, you know, if they got an additional
10 cancer that they could come back in -- yeah,
11 all that's explained in -- in our decisions and
12 explained in what their appeal rights are.

13 **DR. ZIEMER:** Okay. So in essence these
14 individuals would learn that they had not met
15 the 250-day criteria, just as the ones who do
16 meet it are informed, and -- and you would go
17 from there.

18 **MR. TURCIC:** Yes, exactly.

19 **DR. ZIEMER:** Okay, any other discussion or
20 comments?

21 (No responses)

22 Then we will have an opportunity later in the
23 meeting to address specific motions dealing
24 with this -- this proposed Special Exposure
25 Cohort.

1 Lew.

2 **DR. WADE:** Yeah, just to follow up on that,
3 Paul. For the petitioners' benefit, the way
4 the schedule currently is constructed, we would
5 likely take up that motion at 2:30 p.m.
6 Mountain time tomorrow, so you know, you could
7 adjust your schedule accordingly. That's the
8 time we have scheduled for the Board working
9 time.

10 **DR. ZIEMER:** Yes, and Danielle, just -- again,
11 this is Dr. Ziemer, just to follow up on that,
12 based on what Dr. Melius has stated, we are
13 expecting a motion to approve the petition.

14 **MS. KARO:** Uh-huh, yes.

15 **DR. ZIEMER:** There may be some caveats in there
16 dealing with this weighted 250-day calculation,
17 but nonetheless that's what we anticipate. And
18 then there would be a Board vote on that at
19 that time.

20 **MS. KARO:** And this Board vote will take place
21 tomorrow at 2:30 --

22 **DR. ZIEMER:** Approximately at that time period,
23 that's correct.

24 **MS. KARO:** Oh.

25 **DR. WADE:** 2:30 Denver time.

1 **DR. ZIEMER:** Denver time.

2 **MS. KARO:** Yes, Mountain time.

3 **DR. ZIEMER:** Okay.

4 **DR. WADE:** Now Dr. Melius, with his wisdom,
5 also asked me if there would be a quorum. I
6 answered yes. If any Board members are
7 intending not to be here during that time, I
8 need to know.

9 **DR. ROESSLER:** I hate to say this sitting next
10 to Wanda, but I probably should leave about
11 2:15, if that could be moved up a little bit.
12 Either that, or if I could leave my vote with
13 someone.

14 **DR. ZIEMER:** Actually it would be possible for
15 us to put some working session and just trade
16 it with the program updates and go at 1:00
17 o'clock.

18 **DR. ROESSLER:** That would be great. I'll be
19 here.

20 **DR. ZIEMER:** Is that agreeable?

21 **DR. WADE:** So with -- without Gen we would
22 still have a quorum, but for full participation

23 --

24 **DR. ROESSLER:** I'd like to --

25 **DR. WADE:** -- we'll make an adjustment to the

1 agenda and Ms. Petitioner, we would be
2 intending to take up this issue at 1:00 p.m.
3 Denver time tomorrow.

4 **DR. ZIEMER:** Okay. Danielle, thank you for
5 being with us. We're going to recess now for -
6 -

7 **MS. KARO:** Thank you.

8 **DR. ZIEMER:** -- for 15 minutes.

9 (Whereupon, a recess was taken from 10:05 a.m.
10 to 10:35 a.m.)

11 **MR. PRESLEY:** Hey, Liz, you got to holler at
12 them.

13 **MS. HOMOKI-TITUS:** Okay, I'll try again.

14 **DR. ZIEMER:** The phone lines have been rewired
15 here during the break so we want to check the
16 phone lines out. Bob Presley, are you still
17 there?

18 **MR. PRESLEY:** Yes.

19 **DR. ZIEMER:** And Sandi Schubert, are you still
20 there?

21 (No response)

22 Okay, perhaps Sandi will be on shortly.

23 **MR. PRESLEY:** Liz is on, too, or she was.

24 **DR. ZIEMER:** Oh, Liz, are you on?

25 **MS. HOMOKI-TITUS:** Dr. Ziemer, I am on. Is Lew

1 **MS. SCHUBERT:** I'll just take a couple of
2 minutes. As you guys all know, Senator Reid
3 has long supported compensating workers who
4 suffer from cancer and other illnesses as a
5 result of their work during the Cold War. He
6 actually was involved in the passage of the
7 EEOICPA when it first passed and is familiar
8 with the legislative history and the intent is
9 to compensate all those who are deserving.
10 He is happy to see that -- that NIOSH is moving
11 forward and has initiated the recommendation
12 for an SEC for some workers at the Nevada Test
13 Site, and if I understand this -- the
14 limitations of the definition correctly, that's
15 only those employed for 250 days during the
16 years of the above-ground tests. He does not
17 believe that this definition goes far enough,
18 both for the workers there during those years -
19 - he also believes that below-ground test
20 workers should be covered. And I want to -- I
21 sat in, as my of you know, on the Pacific
22 Proving Ground conversation and I'd like to
23 make a couple of comments that -- some of which
24 came up as a result of that, but which we feel
25 -- Senator Reid feels strongly about.

1 There's a difference between the recommendation
2 for the definition of a cohort between NTS and
3 Pacific Proving Ground that I don't understand.
4 In the Pacific Proving Ground you recommend
5 coverage for people who were or should have
6 been monitored. In the NTS site recommendation
7 that -- that language is not included and we
8 would see that as a huge omission. It is
9 documented, the significant problems with
10 monitoring at the site, the actual amount of
11 monitoring and hiding badges for a variety of
12 reasons because people did not want to get over
13 certain amounts which would move them into less
14 hazardous and less well-paid areas. That's
15 documented in the site assessment -- the audit
16 of the site assessment and numerous documents
17 about the Test Site, so that's one issue that's
18 of concern and --

19 **DR. ZIEMER:** Sandi, if I could interrupt you
20 just a moment because I'm looking at the -- the
21 petition evaluation report from --

22 **MS. SCHUBERT:** Uh-huh.

23 **DR. ZIEMER:** -- from NIOSH, and the proposed
24 class definition in fact does include the words
25 "who were monitored or should have been

1 monitored."

2 **MS. SCHUBERT:** Okay.

3 **DR. ZIEMER:** Were those the words you were
4 asking about?

5 **MS. SCHUBERT:** Okay, that is helpful.

6 **DR. ZIEMER:** Yeah, the -- it -- do you -- have
7 -- have you been --

8 **MS. SCHUBERT:** I actually do have the copy of
9 it. I -- I'm -- the copy of it. I will pull
10 it up again.

11 **DR. ZIEMER:** I was going to ask if you had
12 received the --

13 **MS. SCHUBERT:** I don't have a copy of the
14 petition itself. I wasn't able --

15 **DR. ZIEMER:** Okay.

16 **MS. SCHUBERT:** -- to get.

17 **DR. ZIEMER:** I was going to ask if you had a
18 copy of the petition evaluation report from
19 NIOSH, because the -- they do have that class
20 definition and have used --

21 **MS. SCHUBERT:** Okay.

22 **DR. ZIEMER:** -- basically identical words
23 there, so I want to assure you that that is in
24 what we're looking at, at least, as a Board.

25 **MS. SCHUBERT:** Okay. Okay.

1 **DR. ZIEMER:** Yeah, go ahead then, proceed.

2 **MS. SCHUBERT:** And then the other issue is the
3 less than 250 days, and this leads to some
4 questions that can wait until after your
5 presentations, but we -- there's a concern that
6 NIOSH did not recommend that those present
7 during the above-ground tests be included in
8 the SEC. The rationale for that is not at this
9 present clear for us. There's a couple things
10 that come to mind. Episodic events are covered
11 under the SEC process. It is hard to
12 understand what could be defined as an episodic
13 event if the explosion of a nuclear bomb is not
14 considered an episodic event, so he would
15 recommend including all people who worked at
16 the site during these explosions of the
17 atmospheric tests, and I'm just limiting our
18 comments to the time periods you guys are
19 looking at.

20 In addition, RECA, which covers Nevada Test
21 Site workers, is framed in the same way. You
22 have to be present at the time of the blast.
23 It does not have a 250-day requirement and so
24 that's a precedent for this site and those two
25 provisions overlap.

1 I would, as a side measure, like to comment on
2 that if we're looking at Amchitka as a -- going
3 forward and develop SECs, I would think that
4 would argue for the Nevada Test Site's below-
5 ground workers to also be a portion of an SEC,
6 people there present and went back during
7 drill-backs and re-entry. As you are aware, 88
8 percent of all nuclear tests were done at the
9 Nevada Test Site and we at this point do not
10 have an SEC going forward and many of our
11 workers have waited more than 50 years to get
12 some sort of compensation. So despite the
13 comments, we do not want any of these comments
14 to be taken as a reason for not going forward
15 today as far as we can go forward. We're
16 hoping that the Board will expand the
17 definition to include people present during a
18 test -- an atmospheric test, and then I may
19 have questions as you guys go forward.

20 **DR. ZIEMER:** Thank you very much, Sandi, and
21 we'll proceed on that basis. And if you do
22 have questions as we proceed, please feel free
23 to ask. Dr. Wade has a comment --

24 **DR. WADE:** Sandi, I would like -- this is Lew
25 Wade and we've spoken recently. I'd like to

1 just -- this morning when we talked about
2 Pacific Proving Grounds you talked about some
3 discussions you had had with NIOSH and --

4 **MS. SCHUBERT:** Uh-huh.

5 **DR. WADE:** -- and wanting clarification. I
6 think it's terribly important that all those
7 issues be on the record here, and that you
8 understand the record as it's established here.
9 The Department of Labor is here, NIOSH is here,
10 and we can have a clear understanding of the
11 appropriate issues, and that's really the way
12 this Board has done its business and I think
13 it's well that we address any issues you might
14 have as we proceed in these discussions in an
15 open forum.

16 **MS. SCHUBERT:** And one of the issues -- I had
17 talked to Dr. Wade about this -- is can you
18 partition off a portion of the SEC for future
19 discussion without requiring -- and this may
20 not have been explicit in the conversations I
21 had, but it was our intention -- without
22 requiring the submission of another petition.
23 Because, as I said just previously, Senator
24 Reid does feel it's -- is critical to move
25 forward as expeditiously as possible to get

1 compensation for as many people as possible.
2 But he also does believe that the definition of
3 the cohort needs to be expanded to include
4 people on-site during the tests.

5 **DR. WADE:** And I think the answer to that
6 question, as with many questions, are complex
7 and it's best answered in light of the Board's
8 actions as it takes them, and we can have those
9 discussions as appropriate.

10 **PRESENTATION BY NIOSH, DR. JAMES NETON, NIOSH**

11 **DR. ZIEMER:** Okay, thank you very much. Let's
12 proceed then first with the presentation by
13 NIOSH, which is basically the petition
14 evaluation report, and Dr. Neton will present
15 that. And Board members, you also I think have
16 in your folder some copies of the presentation.

17 **DR. NETON:** Good morning again. It's actually
18 a good fit to be presenting the Nevada Test
19 Site evaluation report right after the Pacific
20 Proving Ground discussion because a lot of the
21 issues are going to be very similar in nature.
22 I am here to talk about the Nevada Test Site
23 SEC evaluation report, which is SEC petition
24 00055. This is a slightly different petition
25 in the sense that it is filed under paragraph

1 83.14 of our SEC regulations, and that is it's
2 a petition essentially self-initiated by NIOSH
3 in the sense that we could not do a dose
4 reconstruction for a claimant. Well, we didn't
5 initiate the petition. We determined that we
6 could not do a dose reconstruction for a
7 claimant; informed the claimant, who was a
8 laboratory assistant who worked at the Nevada
9 Test Site between 1961 and '64, of that fact;
10 and in fact provided him a copy of the
11 appropriate forms to file a petition on behalf
12 of that class. We did receive a petition from
13 the claimant, again under paragraph 83.14, and
14 that petition was qualified on February 28th of
15 2006.

16 In keeping with the requirements of the
17 regulation, a *Federal Register* notice was
18 issued on March 17th of this year, with an
19 additional class definition of all employees of
20 Nevada Test Site for the period from January
21 27th, '51 to December 31st of 1962. That may
22 be where the confusion arises. That was the
23 initial class definition from the petitioner.
24 NIOSH modified that class definition to what
25 you see on the screen here, which is a slightly

1 expanded version of that to include a lot of
2 the standard language that you should now start
3 to recognize in some of our class definitions,
4 which is DOE or DOE contractors who were
5 monitored or should have been monitored at
6 Nevada Test Site. And there's always, as
7 usual, a proviso in there that -- of a number
8 of days aggregating at least 250 work days
9 through the period, which can be used in
10 combination with other -- other class
11 definition -- sites. So that if a person
12 worked at another site for a period of time, it
13 could be added to the NTS period. One could
14 surmise from this definition that we reached
15 the point where the default 250-day requirement
16 was in order rather than presence, and we'll
17 talk about that in a little bit.

18 Let's go back and talk a little bit about the
19 Nevada Test Site. As all of you I'm sure know,
20 it was the primary location in the United
21 States for testing nuclear explosives. It
22 began in 1951. Above-ground testing was
23 conducted from January 27th, 1951 with -- I
24 believe it was ABLE was the shot, through July
25 17th, 1962, ending with Operation SUNBEAM. All

1 of these activities were conducted about 65
2 miles northwest of the city of Las Vegas,
3 Nevada on a fairly large reservation
4 encompassing I think about 1,400 square miles.
5 It's a very large site, a lot of testing done I
6 think in that time period. There were I think
7 almost exactly 100 shots either above-ground
8 atmospheric tests were conducted during that
9 time period.

10 But in addition to atmospheric detonations,
11 there were other safety tests that were
12 conducted such as looking at dispersion of
13 plutonium and uranium being exploded with
14 conventional explosives, that sort of thing,
15 some experimental reactor testing. There was
16 also work done with development of nuclear
17 aircraft engine, that kind of information, so
18 there were other activities in addition to the
19 above-ground atmospheric testing in the period.
20 As -- as you've seen in our presentations
21 before, this is two-pronged process established
22 under EEOICPA for adding a class, and that is,
23 is it feasible to estimate the level of
24 radiation number of members of the class with
25 sufficient accuracy. And if the answer to that

1 is no, then is there a reasonable likelihood
2 that radiation may have endangered -- may have
3 endangered the health of members of the class,
4 and those are the two guiding principles we --
5 we followed in coming to our determination.
6 We took a long look in trying to do the dose
7 reconstruction for the case where we realized
8 we couldn't, and looked at the potential for
9 exposure to the facility. And the extent and
10 the distribution of contamination from these
11 atmospheric testing tests vary quite widely.
12 It depended a lot on the nature of the test.
13 These -- these weapons were detonated at
14 various heights above the ground -- surface
15 shots, shots from towers at 30 to 200 meters
16 above ground. There were -- there was one
17 where there was a helium balloon attached to it
18 and it went up to I think about 450 or 60
19 meters above ground. And so in addition to the
20 type of shots and the yield of the shot and the
21 location above ground, also the exposure to
22 these workers would be somewhat dependent upon
23 the local weather conditions at the time, which
24 direction the wind blew, where the workers were
25 in relation to the shot, that sort of thing.

1 Based on the above-ground testing in this 1,300
2 acre -- square mile site, most participants
3 have the potential for radiation exposure to
4 certainly beta and gamma activity as -- as the
5 fallout descended on the local region and
6 irradiated both their skin and -- as well as
7 their internal exposure due to breathing of the
8 fallout, and subsequent inhalation -- just like
9 Pacific Proving Grounds -- due to the
10 resuspension of contamination on the ground.
11 Since there were many shots that contaminated
12 the surface soil, subsequent shots would again
13 pull up into the atmosphere the contamination
14 that had been deposited previously and make
15 that available for inhalation to the -- to the
16 workers on the site.

17 Most personnel at the Nevada Test Site were
18 positioned out of the forward areas. That is,
19 they did not have people right there, civilians
20 in particular. There were some military folks
21 positioned nearby. And our --

22 **MS. SCHUBERT:** Excuse me, can you speak up a
23 little bit? You're starting to fade away.

24 **DR. NETON:** Okay, I'll try.

25 **MS. SCHUBERT:** Thanks.

1 **DR. NETON:** Most personnel were positioned out
2 of the forward area, the civilians in
3 particular. And the information we have
4 available indicates that personnel in the
5 forward area did wear dosimeters, so we
6 believe, as with Pacific Proving Grounds, we
7 have good indications of what the external
8 exposures to these workers were that were in
9 the area during testing operations. There is
10 no indication that any of those workers
11 received external exposures that were anywhere
12 near what one would experience from what we've
13 defined in the rule as a criticality incident.
14 That is an unplanned criticality accident that
15 occurred, which would be somewhat similar to
16 what was observed at the Y-12 facility -- Oak
17 Ridge Y-12 facility in 1958 where people
18 received on the order of 200, 300 rem of
19 exposure almost instantaneously. We see no
20 evidence of that in this cohort.
21 The exposure characteristics of the fallout
22 that's coming down are fairly complicated.
23 This site, again, was a weapon -- a nuclear
24 weapon that was detonated above ground and
25 generated over 200 different radionuclides that

1 would have to be reconstructed. There's
2 approximately 36 elements, so you have a real
3 mixture of radionuclides and we'd have to
4 follow that pathway of each radionuclide
5 through the body and into the organs, and --
6 and many of them had short half-life so one
7 would have to know when the exposure occurred
8 in relation to the weapon burst, those type of
9 things, extremely complicated exposure
10 scenario.

11 Again, some of these safety tests dispersed
12 mixtures of uranium and plutonium using
13 conventional explosives, which are separate and
14 apart from the weapons testing activities, but
15 certainly did provide an additional exposure
16 pathway for workers at the Test Site.

17 So what do we have available to reconstruct
18 doses for the workers during this time frame.

19 As I mentioned, we have a significant number of
20 monitoring results for external dosimetry data.
21 Over 90 percent of the cases that we have yet
22 to complete had external monitoring data.

23 That's a slightly confusing statistic. We have
24 about 600 cases yet to complete in our -- in
25 our files. There's a total of 1,200 cases

1 we've received from Department of Labor for
2 Nevada Test Site, so we're about halfway
3 finished with the case load. Of those 600
4 remaining, 90 percent have external data.
5 There are only, though -- I think our best
6 estimate right now is about 350 cases that fall
7 into this class definition period, so keep that
8 in mind. There's about 350 cases that
9 potentially would be affected by this decision.
10 Air monitoring data was available at some
11 locations, but we have very -- almost no
12 information on the relation of the workers to
13 these air monitoring samples. And in fact,
14 very much like Pacific Proving Ground, these
15 air samples were taken more to follow the
16 direction of the plume rather than to help
17 quantify the exposures to the workers on-site
18 during the testing period.
19 There was no formal bioassay program at this
20 facility prior to 1958, and in fact there was
21 no routine program until 1961. We have almost
22 -- very, very limited bioassay data, and given
23 the nature of the variability of these shots,
24 the 100 different shots with different
25 potential exposure characteristics, we believe

1 that the limited data we do have are
2 insufficient to do any type of internal dose
3 reconstruction with sufficient accuracy for --
4 for the cohort.

5 There was after 1961 -- I believe after the
6 atmospheric testing period ended, and starting
7 later -- in later years, there are sufficient
8 bioassay taken that we believe we can attempt
9 to reconstruct doses in the underground testing
10 period.

11 As with Pacific Proving Grounds, the current
12 DTRA approach, in our opinion, is not useful
13 for dose reconstructions under EEOICPA for --
14 for principally the same reasons we talked
15 about earlier under Pacific Proving Grounds.
16 That is, there are issues raised with the
17 techniques applied by DTRA to evaluate internal
18 exposures from the external badge reading.
19 Those responses to the National Research
20 Council are underway, but we don't expect the
21 results for some time. So at this point we're
22 not convinced that these approaches would
23 provide any meaningful internal dose results,
24 and in particular in light of the requirements
25 for sufficient accuracy under EEOICPA.

1 So based on this brief discussion of what's
2 contained in the SEC evaluation report, we have
3 come to the conclusion that we lack sufficient
4 -- lack monitoring, process or source
5 information that are sufficient to reconstruct
6 internal doses at the Nevada Test Site during
7 the evaluation period specified, but we do
8 believe we have sufficient information to
9 estimate the external and medical exposures for
10 this period. As I mentioned we have a copious
11 -- not copious -- we have good amount of
12 external monitoring data available for
13 personnel for this time frame.

14 As far as health endangerment goes, we've
15 determined it's not sufficient for us to
16 estimate these doses with sufficient accuracy,
17 in accordance with our requirements of our
18 regulation. If we can't put a plausible upper
19 limit on the exposure, then we have made a
20 determination that the health of the covered
21 employees may have been endangered. The
22 evidence indicates that the workers in the
23 class have accumulated internal exposures due
24 to the inhalation of radioactive particulates
25 as a result of these episodic shots that

1 occurred, and recurring exposures from
2 resuspension of material deposited on the
3 ground. And that is the basis for the
4 definition of the 250-day exposure requirement
5 for this class.

6 So the last slide just summarizes pretty much
7 what I just said. The period of January 27th,
8 '51 through December 31st, '62 we are
9 recommending that this class be add-- this
10 class of employees be added to the -- for the
11 Nevada Test Site workers based on the inability
12 to reconstruct doses and the presence of health
13 endangerment for the class. Any questions?

14 **DR. ZIEMER:** Thank you, Dr. Neton. Let's open
15 the floor to questions. I think one comment
16 before that. Dr. Wade.

17 **BOARD DISCUSSION**

18 **DR. WADE:** Yeah, just a -- for the record, Mark
19 Griffon has self-identified that he's
20 conflicted on Nevada Test Site. I did not say
21 that at the start of the discussion. Mark has
22 stepped away from the table, as is appropriate,
23 and it's a good example of Board members
24 policing their own activities and I thank Mark
25 for the reminder.

1 **DR. ZIEMER:** Okay, thank you. Questions now or
2 comments? Wanda Munn and then Dr. Melius, then
3 DeHart.

4 **MS. MUNN:** The workgroup which was looking at
5 NTS has had several discussions about this
6 particular case. We've not had the occasions
7 to have a face-to-face meeting, but I think
8 there's general consensus on the working group
9 what our recommendation would be. I believe
10 that Mr. Presley is on the line and, once the
11 Board's comments have been heard, is prepared
12 to make a motion.

13 **DR. ZIEMER:** Thank you. Jim Melius.

14 **DR. MELIUS:** Yeah. I'm not privy to what the
15 workgroup has done and so, Wanda, you may want
16 to -- or whoever -- somebody may want to jump
17 in here, but -- but Jim Neton, my question is -
18 - first question is you really -- you mentioned
19 something in your -- sort of in passing during
20 your presentation about the ability to
21 reconstruct doses I think after 1962 for the
22 below-ground testing, but we're not being asked
23 to evaluate that. That's not part of the
24 evaluation that's presented here. It may be
25 something that, directly or indirectly, the

1 workgroup is evaluating in looking at the site
2 profile, but -- but just for our understanding,
3 we're not reaching any conclusion on that.
4 We're only addressing the years prior to 1962.

5 **DR. NETON:** That's correct.

6 **DR. MELIUS:** Okay.

7 **DR. NETON:** We're only evaluating January 27th,
8 '51 through --

9 **DR. ZIEMER:** Actually through '62, not --

10 **DR. MELIUS:** Right --

11 **DR. NETON:** Yeah --

12 **MS. MUNN:** Yeah.

13 **DR. MELIUS:** Okay.

14 **DR. NETON:** I only offered that as an example
15 of why the class distinction is drawn at this
16 point. We're making no judgment right now --

17 **DR. MELIUS:** Yeah, okay.

18 **DR. NETON:** -- as to what happens after that.

19 **DR. MELIUS:** Okay.

20 **DR. ZIEMER:** Roy DeHart.

21 **MR. PRESLEY:** Paul, this is Bob Presley.

22 **DR. ZIEMER:** Oh, hang on, Bob, just a minute.
23 We'll catch you here, just a second. Roy
24 DeHart, a comment.

25 **DR. DEHART:** Jim, during those ten years there

1 were quite a number of shots, as you've alluded
2 to. How does the exposure -- what is the --
3 the constituency of the exposures of the people
4 who are working there? Are these people who
5 would have been working there during the
6 interim of the shots, or could people have
7 worked there and not been there in that 250
8 days when there were no shots? Kind of give me
9 a feel for what we're talking about.

10 **DR. NETON:** That's a good question. I mean
11 this was an official site. I mean there were
12 people who worked there routinely. This was
13 not -- not similar to Pacific Proving Grounds
14 in the sense a lot of the technical staff flew
15 out for the shot, although I think that
16 probably did happen with folks from other
17 facilities. But I did take a look at what the
18 job categories were and -- just to get a feel
19 of what we're talking about, and it's what one
20 would expect. It's a combination of laborers,
21 carpenters, mechanical designers, pipefitters,
22 scientists -- so you -- you have the same sort
23 of mix that you would see at any DOE facility,
24 to some extent -- support personnel as well as
25 scientific/technical personnel.

1 As far as -- I did not do an analysis of the --
2 of the exposure periods for these workers like
3 I did for Pacific Proving Ground, but I think
4 that the -- the thinking is that this was a
5 permanent, fixed facility where there were a
6 lot of folks who just worked there and happened
7 to be present during these shots and were
8 exposed, either directly through working, you
9 know, in the area of the shot or indirectly as
10 a result of being in the plume.

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

12 **MR. PRESLEY:** Paul, can I comment? This is Bob
13 Presley.

14 **DR. ZIEMER:** Yes. Go ahead, Bob Presley on
15 line.

16 **MR. PRESLEY:** Jim's exactly right. We had
17 quite a large what we called a permanent party
18 that stayed full time. They were -- they were
19 employed 24/7 at the Test Site. A lot of them
20 lived there at Mercury. In the later years
21 some of them lived up on the mesa at what we
22 called the forward -- forward operation area.
23 But those people would go back and forth on
24 their daily jobs through the areas where the
25 above-ground tests had been made -- or where

1 they'd been dropped.

2 **DR. ZIEMER:** Okay, thank you, Robert. And can
3 -- Bob, can you or any of the NIOSH staff
4 answer the question as to the relative
5 exposures at -- at the Mercury site, which is
6 where many of these folks spent their time when
7 off duty, versus the duty sites around NTS? Is
8 it a lower background area in general, or about
9 the same?

10 **MR. PRESLEY:** Generally yes, it would be a
11 lower background area. Some of the problems
12 that we had when I was even going out there is
13 if you went out in some of the older air drop
14 sites and you drove through those sites, you
15 would bring particles back on your tires on the
16 car. And that was one of the areas they --
17 they waited all the way back till you got to
18 Mercury where they had a wash drop where they
19 would wash the cars, and at that time, you
20 know, you were bringing stuff into Mercury.
21 And then out there, the way the wind blows and
22 things like that, even though Mercury is about
23 -- oh, 25 to 35 miles from the -- some of the
24 early drop sites -- maybe not 25 miles -- the
25 wind blows out there seriously at times of the

1 year and it could have blown some of the
2 particles back over to that area. So there is
3 a -- there is a possibility of contamination.

4 **DR. NETON:** I would also add to that that we
5 have very poor information about the location
6 of the workers relative to space to where these
7 shots occurred.

8 **MR. PRESLEY:** Speak up, Jim, I can't hear you.

9 **DR. NETON:** We have very poor information about
10 the relative location of these workers at the
11 facility, as well.

12 **MR. PRESLEY:** That's correct.

13 **MS. SCHUBERT:** Is this being taken into account
14 in any way in ascertaining what a work day
15 would be?

16 **DR. ZIEMER:** That's actually what I was leading
17 to because -- and Bob Presley's already alluded
18 to the fact that simply traversing the site on
19 the way to a duty station might expose one to
20 elevated areas. Do we know, for example, on
21 the personnel monitoring -- at what point do
22 they wear their personnel monitoring? Do they
23 take it back to the Mercury site or do they
24 leave it somewhere?

25 **DR. NETON:** I believe -- I believe that the

1 badges were issued at the entrance to the
2 facility.

3 **MR. PRESLEY:** That's correct.

4 **MS. SCHUBERT:** I can't hear that. I'm sorry,
5 the badges were issued where?

6 **DR. NETON:** I believe that the badges were
7 issued at the entrance to the -- to the site
8 itself.

9 **DR. ZIEMER:** So once you're on-site, you had
10 your badge 24 hours.

11 **MR. PRESLEY:** That's correct, you got -- you
12 got your badge when you entered at Mercury and
13 you wore your badge -- or you're supposed to
14 have it with you 24/7.

15 **DR. ZIEMER:** Okay, so --

16 **MS. SCHUBERT:** Can I -- I have -- I have a
17 question about the wearing the badges 24/7.
18 There is significant literature, including the
19 person who was the lead health physicist at the
20 site for most of the time, indicating that that
21 in fact is not what occurred. And in our
22 discussions with Site workers, wearing badges
23 24/7 was the exception as versus the rule. Why
24 didn't you guys look at some of the materials,
25 when you were analyzing this situation, that

1 indicate that these badges weren't being worn,
2 including I believe that there's a book by the
3 former head health physicist that details a lot
4 of this.

5 **DR. NETON:** Well, I think -- the answer to that
6 is we had sufficient evidence that we can't do
7 dose reconstructions with sufficient accuracy
8 based on the internal dosimetry exposure alone,
9 and because of that the class would be added,
10 we -- I mean the class should be added, and
11 that we would use the external dose results
12 that were available as measured on the badge
13 and do partial dose reconstructions to the
14 extent possible.

15 **MS. SCHUBERT:** And I -- I mean I -- I'm not
16 sure that actually answers my question because
17 the problem is these badges. I mean you guys
18 say you have badges for 90 percent of the
19 claims, and I'm not sure what years that
20 includes, but there's significant evidence and
21 your own audit report indicates that that
22 actually is not the fact that went on at the
23 site.

24 Can I ask a question about partial dose
25 reconstruction? So when you do a partial dose

1 reconstruction and look at just the external
2 dose, how do you account for the portion of
3 internal dose that you cannot estimate?

4 **DR. NETON:** Well, we don't. Since we -- since
5 we have determined that we can't estimate it,
6 there would be no internal dose assessed.

7 **MS. SCHUBERT:** So what you guys are saying is
8 that although -- for instance, I think
9 everybody would agree that anybody on the site
10 under 250 days who was present during a bomb
11 probably got an internal dose, but because you
12 can't estimate it, you're not going to
13 calculate it as part of a dose reconstruction?

14 **DR. NETON:** Well, yes. I mean if you can't
15 estimate it, you can't estimate it.

16 **MS. SCHUBERT:** If you can't accurately estimate
17 dose, doesn't that put people into an SEC as
18 versus putting them into a situation where you
19 ignore the dose you can't estimate?

20 **DR. NETON:** Well, we are putting them into the
21 SEC. The issue I think you're getting to is
22 whether the duration of employment should be
23 250 days or less.

24 **MS. SCHUBERT:** Well, you're not putting anybody
25 under 250 days into the SEC based on this

1 particular recommendation --

2 **DR. NETON:** That's correct.

3 **MS. SCHUBERT:** -- yet the acknowledgement is
4 still out there that internal dose
5 reconstruction cannot be done for these people.

6 **DR. NETON:** Yeah. This is not unique to the
7 Nevada Test Site. This situation has arisen at
8 almost all the other SECs that we've evaluated.
9 I mean there's a -- there's a issue here. If
10 you -- you know, if you add a class because you
11 cannot reconstruct some component, then it's
12 very difficult for us to turn around and say
13 well, we'll just go and reconstruct it. I mean
14 that's sort of an inconsistent logic, we
15 believe.

16 **DR. ZIEMER:** Okay. Brad Clawson has a question
17 or comment.

18 **MR. CLAWSON:** I guess I was just looking in the
19 250 days, you know, we're talking that they
20 were away from Mercury, which is basically 25
21 miles away from it. Some of the information
22 that I've looked into it, we've had -- we've
23 had plumes from some of these explosions that
24 has gone as far as Utah and Idaho, and that's
25 quite a bit more than what Mercury was at.

1 It's getting back to the 250 days. I -- I
2 personally feel that we need to look at this
3 somewhat like the Proving Grounds where those
4 people were living there. It's -- it's just a
5 question that these -- these people were there
6 all the time.

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

8 **DR. MELIUS:** Yeah, to follow up that -- two
9 things. First on Sandi's question about the
10 partial dose reconstructions. In some
11 discussions yesterday the Board had asked for
12 some further information on how those are done
13 and what NIOSH's approach is, and so we will be
14 discussing that issue in -- in more detail as
15 it pertains really to this site and all the
16 other SEC sites. And so -- so I think we'll --
17 we'll be able to evaluate that.

18 In terms of follow-up to -- to Brad's question,
19 I guess my question here is I think it's a bit
20 more complicated than the Pacific Proving
21 Ground 'cause you -- you -- was no place else
22 to live and to -- or to go, essentially. Here
23 it's a much more complicated site in terms of
24 the type of facilities and so forth, and
25 determining whether someone -- you know, how

1 many hours -- hours they spent there or
2 whatever I think is going to be more
3 complicated.

4 And I guess I also have some questions on the -
5 - the implementation of the -- the class
6 definition here, given the number of -- of
7 different sites. Are we essentially including
8 everybody -- I mean how will we implement this
9 definition, particularly the, you know, "should
10 have been monitored" portion of it. And also I
11 think the question of implementing the question
12 that Brad raised about people living out at
13 that site.

14 **DR. NETON:** Okay. The "should have been
15 monitored" I think -- it's our opinion that
16 people were badged at the entrance to the
17 facility, so I think that would -- that would
18 cover pretty much everyone that's in the class,
19 you know, is my opinion.

20 I'm sorry, was there a second part to that?

21 **DR. MELIUS:** The second -- the second part is -
22 - is -- is there going to be a way to identify
23 people that live -- that lived out at the site?
24 I mean how are we going to --

25 **DR. NETON:** Okay.

1 **DR. MELIUS:** As opposed to Pacific Proving
2 Ground where I think you would -- so -- some
3 ways there's an assumption based -- you know,
4 there's no place to go. Here there are places
5 to go, it's a lot farther, but --

6 **DR. NETON:** I'd have to --

7 **DR. MELIUS:** -- it's a long drive to...

8 **DR. NETON:** I'd have to refer that question to
9 maybe the Department of Labor or -- if they'd
10 be willing to opine an opinion here.

11 **DR. ZIEMER:** So the question has to do with to
12 what extent do we know individually whether
13 people stayed there 24/7 versus living off-site
14 and going home at night? Is that --

15 **DR. MELIUS:** Yeah, I think the -- that's the
16 question. Are we going to be -- if we're going
17 to take into account people's living at the
18 site and making some assumptions about their
19 exposures based on that, then are we going to
20 be able to identify them.

21 **MR. TURCIC:** We would have to have probative
22 evidence that an individual did in fact live
23 there, you know, so -- I mean because there
24 were a number of people who traveled, who
25 commuted daily.

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

2 **MR. TURCIC:** So we would need evidence, and it
3 would be just like any other factual
4 information, we could -- you know, either
5 through records or affidavits, a number of
6 ways, but we would need some evidence that an
7 individual was there, you know, and did -- did
8 in fact live there. And then we would, you
9 know, again, apply the process where we would,
10 you know, count 24 hours a day for that -- that
11 individual.

12 **DR. ZIEMER:** Could I follow that up a moment,
13 Pete? Does -- do the folks at Labor then
14 automatically, in this case, consider if the
15 person is on the site 24/7 then that gets the
16 appropriate weighting, even though they're not
17 in the work area, they're there at the Mercury
18 site.

19 **MR. TURCIC:** Yeah, because --

20 **DR. ZIEMER:**

21 **MR. TURCIC:** Because the Mercury site is on the
22 site.

23 **DR. ZIEMER:** Yeah, it's -- it's in the gates.

24 **MR. TURCIC:** Yeah, that's exactly how we would
25 apply that.

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

2 **DR. MELIUS:** So procedur-- procedurally, we
3 approve this class, all those 250 days or more
4 would be approved. Those less than 250 days,
5 would Department of Labor communicate with them
6 saying that, you know, we need additional
7 information. If they could provide
8 information, for example, they worked for a
9 contractor who, you know, for 90 days was at,
10 you know, during certain time period was out on
11 the site, they lived on the site, then that
12 would be the type of information you'd be
13 looking for?

14 **MR. TURCIC:** Exactly.

15 **DR. MELIUS:** Yeah, okay.

16 **MS. SCHUBERT:** Is -- is that information
17 readily available for over 50 years ago?
18 'Cause in our discussions that information is
19 almost impossible for these guys to get ahold
20 of.

21 **MR. PRESLEY:** This is Bob Presley again. Can
22 y'all hear me?

23 **DR. ZIEMER:** Yeah, Robert, can you answer that?

24 **MR. PRESLEY:** They had what they called a
25 housing authority on site. I do not know the

1 date that it started, but the housing
2 authority, when I was out there, kept up with
3 everybody and where they stayed. They gave you
4 a telephone number. They delivered your linen
5 -- linens and things like that, and it -- when
6 I was out there during the below-ground tests,
7 the housing authority was in full work. There
8 ought to be some records still out there on
9 that.

10 **MS. SCHUBERT:** But I mean you -- you said you
11 were there during below-ground, not above-
12 ground.

13 **MR. PRESLEY:** That's correct.

14 **MS. SCHUBERT:** So does anybody know if those
15 records exist for the atmospheric tests?

16 **MR. PRESLEY:** I don't know.

17 **DR. ZIEMER:** I guess we don't know the answer
18 to that at the moment, and I think what Pete
19 Turcic is saying is that Labor would in fact
20 have to ascertain that information. In the
21 absence of information, what happens? What's
22 the default? If they cannot verify, how do you
23 -- do you, for example, say well, we'll assume
24 worst case, that they were on-site, or do you -
25 -

1 **MR. TURCIC:** It would depend -- like I'm sure
2 that there were probably certain occupations --
3 it's my understanding there were certain
4 occupations that would work, you know, a --
5 four days, then they would travel. And so if
6 they fell into those kind of occupations which
7 we have information, then, you know, we would
8 assume that. But other than -- other than
9 that, we would need some kind of information
10 that, you know, verified that.

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

12 **MS. SCHUBERT:** So if I understand correct, if
13 there are no records that exist for this, which
14 happened more than 50 years ago, the default
15 would be to assume they did not live there.

16 **MR. TURCIC:** We wouldn't necessarily just need
17 records. I mean we could use affidavits and,
18 you know, other -- other sources of
19 information.

20 **DR. ZIEMER:** In other words, if the individual
21 provided an affidavit that that's what they
22 did, you would --

23 **MS. SCHUBERT:** What about the individual's
24 survivor -- family member?

25 **MR. TURCIC:** As with any affidavit we look at,

1 you know, it's -- you have to look at the
2 source and you have to weigh it and see how
3 much probative value, you know, that affidavit
4 has.

5 **MS. SCHUBERT:** I mean in general if it's like a
6 -- generally it's a child or a surviving
7 spouse. Those are the survivors. How is that
8 generally weighted? I mean if somebody sends
9 something in saying my father talked to me all
10 his life about living on the site.

11 **MR. TURCIC:** We could use, you know,
12 information, you know, such as that to say that
13 they lived at the site. It -- again, it would
14 all depend on, you know, the case-specific
15 information.

16 **DR. ZIEMER:** And the weight of that affidavit
17 versus --

18 **MR. TURCIC:** Exactly.

19 **DR. ZIEMER:** Yeah, okay. Thank you. Dr.
20 Melius, do you have another comment?

21 **DR. MELIUS:** No.

22 **DR. ZIEMER:** Brad Clawson?

23 **MR. CLAWSON:** I have a question for the
24 Department of Labor there. We keep hearing
25 about this 250 days, and I know as many

1 petitioners have voiced before and stuff like
2 that, is there any way for them to know that we
3 are looking at adjusting this time period,
4 looking at them living on there? Because a lot
5 of people may say well, geez, I was -- I was
6 only out there for three months or something
7 like that and so I'm not going to apply because
8 I'm not under -- I'm not under that 250 days.
9 Is there something, an avenue of which we can
10 help educate the petitioners on this?

11 **MR. TURCIC:** Well, first of all, since -- since
12 it's currently not an SEC, it wouldn't matter
13 how many days. You know, if -- if people had
14 the illness, we tried to get to them and, you
15 know, encourage them to file a claim. There --
16 you know, that is a good point, and now that
17 this is an issue, we will look at, you know,
18 the best way to get that information out. It
19 is on our web site in our procedure manual, but
20 we'll look at ways to -- you know, to better
21 explain that to the claimant population.

22 **MR. CLAWSON:** Thank you.

23 **DR. ZIEMER:** Further questions or comments?

24 **MS. SCHUBERT:** This is Sandi Schubert --

25 **DR. ZIEMER:** Yeah, Sandi.

1 **MS. SCHUBERT:** -- and I do have one further
2 question --

3 **DR. ZIEMER:** Sure.

4 **MS. SCHUBERT:** -- and it goes to the less than
5 250 days and the conflicts with RECA, and you
6 guys have talked about legislative intent
7 previously. It seems pretty clear that
8 Congress in RECA made it clear that they
9 intended people who were present during above-
10 ground tests to be covered. I did not look up
11 the legislative history for this particular
12 conversation. I actually did not know that
13 this was going to be the decision till a couple
14 of days ago. It seems as though there is --
15 that you guys talk about sort of consistency.
16 You're creating a double standard here for
17 certain employees. Why in some circumstances
18 would your rationale be that in above-ground
19 tests it's deserving of compensation in one
20 circumstance and not in another, and how do you
21 guys know the amount of exposure somebody would
22 have gotten from the above-ground tests when
23 you've admitted that you cannot reconstruct
24 dose? 'Cause I'm hear-- I've heard different
25 numbers, 300 to 400 like at Y-12, anything over

1 100, I'm not sure where this all comes down.
2 Senator Reid is concerned that this -- that
3 people there during -- present during these
4 tests be covered and compensated.

5 **DR. ZIEMER:** I don't know if -- Jim, if you're
6 prepared to answer that. In part, of course,
7 one of the reasons you have the Special
8 Exposure Cohort is because you can't
9 reconstruct the dose. I think both the Agency
10 and at this time the Board, we are operating
11 under our current rules, which spell out a 250-
12 day -- I think any chan-- it would appear to
13 the Chair that any change that this Board may
14 wish to recommend, and this is aside from the
15 weighting issue, becomes more of a generic
16 problem, not just a site-specific problem, and
17 would have to perhaps be handled separately as
18 a -- as a -- an issue down the road. That
19 doesn't preclude, if that occurred, revisiting
20 that part of the group that didn't meet the
21 250-day requirement at this time.

22 Dr. Melius, you have additional comment?

23 **DR. MELIUS:** Yeah, I would suggest, and sort of
24 parallel to our discussion on Pacific Proving
25 Ground, that we also follow up on the Nevada

1 Test Site in a similar way. And I think we --
2 as you suggested, Paul, I think we need to, you
3 know, re-evaluate this issue and then determine
4 what's appropriate for going forward. Is there
5 something that can be done within the current
6 regulation, does -- do we need to recommend
7 that the regulation be changed, do we -- or is
8 there something that would have to be done --
9 done through the law, a change in the law. So
10 I mean I think -- again, I would propose that
11 we go forward and sort of evaluate that issue
12 for -- for this site, also. We need to look at
13 it. That should be part of our recommendation
14 and that we keep this petition open in the way
15 we talked about for the -- same way we talked
16 about for the Pacific Proving Ground.

17 **DR. ZIEMER:** And at the moment the Chair simply
18 identifies that as a possible issue. That's
19 not an action item at the moment, but simply an
20 issue that we must keep in mind as we move
21 forward from this point.

22 Brad Clawson, another comment.

23 **MR. CLAWSON:** I just -- I'm needing a point of
24 clarification because in reading parts of the
25 site profile and so forth like this, you have

1 stated that there was universal badging that --
2 at Mercury and at the work site, but if I
3 remember correctly, in -- universal badging
4 didn't -- didn't start till what, '57,
5 somewhere in there?

6 **MS. SCHUBERT:** '58.

7 **MR. CLAWSON:** '58. So -- so, to me, it -- it
8 brings up an issue there that there wasn't that
9 much badging --

10 **DR. MELIUS:** Yeah.

11 **MR. CLAWSON:** -- before that time.

12 **DR. ZIEMER:** Yeah. Clarify that, Jim?

13 **DR. NETON:** Yeah, I -- that -- I think --
14 you're true -- it's true the badging probably
15 didn't start until that time frame. But again,
16 we've gone through and we have external
17 dosimetry results for 90 percent of the cases
18 that have been forwarded to us that need to be
19 reconstructed. We have confidence that we know
20 what the external exposures were.

21 **DR. ZIEMER:** For those actual cases who have
22 made claims.

23 **DR. NETON:** For those cases that have made
24 claims. And with that -- with that type of --

25 **DR. ZIEMER:** Does that suggest these are people

1 from the tail end of the -- later than --

2 **DR. NETON:** That's a good question. I don't
3 know the answer to that. But I'm -- I'm
4 somewhat confused. If we're -- we're proposing
5 to add this class based on internal exposure
6 criteria, and if we were to add and say that
7 now that we -- we can't do external dose
8 reconstructions alone, that would leave us no
9 recourse for external dose reconstructions, as
10 well. We think -- we think the badges that --
11 data that we have are valid and we would use
12 them to the extent possible to reconstruct
13 those exposures.

14 Now if you're speaking to the issue that people
15 were not wearing badges that were exposed to
16 criticality events close up and personal, I --
17 I'm -- we find no evidence that that occurred.

18 **MR. CLAWSON:** No, I'm just -- I'm just -- it
19 kind of bothers me a little bit that we're
20 saying that we've got 90 percent of the badges
21 and so forth for these people, but the badging
22 didn't even start till basically '58, so we've
23 got a time frame from '51 up to then that I --
24 I just question.

25 **DR. ZIEMER:** LaVon, you --

1 universal, issued at the gate, as we'd
2 indicated previously for the entire facility.
3 It apparently started in '58.

4 **MR. CLAWSON:** Okay.

5 **DR. ZIEMER:** Okay. Thank you. Further
6 questions or comments?

7 **MS. SCHUBERT:** This is Sandi. I have one --

8 **DR. ZIEMER:** Yes, Sandi.

9 **MS. SCHUBERT:** -- last question. I'm sorry,
10 could somebody explain to me how an episodic
11 event is being defined such that explosion of a
12 nuclear bomb doesn't qualify?

13 **DR. ZIEMER:** Yeah, let the Chair take an
14 initial stab and then Jim Neton will help me
15 out. It's quite true that the detonations
16 themselves, in everybody's mind, is an episodic
17 event. I think we're talking about episodic
18 exposures, where the exposure itself is a very
19 high value in a very short period of time, and
20 you certainly get that in criticality accidents
21 such as the Y-12 criticality that Dr. Neton
22 referred to earlier.

23 In the case of individuals who are at -- not at
24 forward sites or are either shielded or back
25 when the detonation occurs, they do not get

1 this high dose, even though the event has
2 occurred, simply because they are protected by
3 distance or shielding. They do get a small
4 amount of dose from that 'cause it's not always
5 100 percent shielding, but not an episodic
6 amount. I think -- there's probably not a
7 critical number, but it's not hundreds of rems
8 like you get in a -- or rads that you would get
9 in a criticality accident. Certainly they get
10 exposure during that brief time period, but
11 it's not up in that sort of episodic range.
12 Jim, if you would add to that and --

13 **DR. NETON:** I think you've done the question
14 far better justice than I probably could have.

15 **DR. ZIEMER:** I don't know if that answers the
16 question, Sandi, but to understand the
17 difference, we're talking about really the
18 doses received by the persons.

19 **MS. SCHUBERT:** Does the reg talk about episodic
20 exposures or episodic events? I thought the
21 language was event.

22 **DR. NETON:** This is Jim Neton, and I'm trying
23 to recall, and I don't believe it talks about
24 episodic. I believe it talks about discrete
25 events --

1 **MS. SCHUBERT:** Uh-huh.

2 **DR. NETON:** -- such as a criticality. I'm
3 using recall, but --

4 **DR. ZIEMER:** We'll get the wording here --

5 **DR. NETON:** -- Dr. Wade is looking it up.

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

7 **DR. WADE:** Might I read -- and I'm reading from
8 the -- the SEC rule -- I can give you the
9 citation, it's 83.13 -- these things are so
10 hard to find --

11 **MS. SCHUBERT:** the rule.

12 **DR. WADE:** -- 83.13(iii), for cases of
13 employees that may have been exposed to
14 radiation during discrete incidents likely to
15 have involved exceptionally high level
16 exposures, such as nuclear criticality
17 incidents or other events involving similarly
18 high levels of exposures resulting from the
19 failure of radiation protection controls.

20 **DR. ZIEMER:** Okay. So we've been using the
21 word "episodic events" here kind of in a
22 generic way. It's not the language of -- of
23 the regulation, but nonetheless, it has to do
24 with the total dose received very -- in a very
25 short period of time in these so-called

1 discrete events.

2 Okay, further questions or comments?

3 **MS. SCHUBERT:** I thought the second half of the
4 question was how do you determine the dose
5 received from the atmospheric tests so that you
6 know it's not a large amount?

7 **DR. NETON:** Well, if we're speaking of the
8 internal exposures, we know that that was
9 delivered via particulate that was injected
10 into the atmosphere and filtered down over
11 time, and we have a sense -- from knowing
12 information about fallout -- that it was not of
13 the level of the dose received from a, as Dr.
14 Wade read, a criticality accident.

15 In general, internal exposures are -- are not
16 delivered at the levels of external exposures
17 like a criticality event. One inhales these
18 materials and one can only breathe about 20
19 liters per minute, so you -- it'd be difficult
20 to inhale enough material in such a short
21 duration of time to reach the levels -- to
22 reach the thresholds that are indicated in the
23 regulation.

24 **DR. ZIEMER:** Okay. Further questions or
25 comments?

1 (No responses)

2 Okay, I'm looking to see where we are in the
3 scheme of things here. We -- we at a point
4 where we can consider motions on this
5 recommendation?

6 **MS. MUNN:** I think Bob's prepared to do a
7 motion.

8 **DR. ZIEMER:** Oh, Robert, yes, you've been
9 waiting on the side there. I forgot, since I'm
10 not seeing your -- your tent here. So please,
11 Robert Presley.

12 **MR. PRESLEY:** As Chairman of the working group,
13 I'd like to make a motion that we accept this
14 SEC petition as-is, and also that we go back
15 and look at this 250-day things change. Can we
16 put that in somehow?

17 **DR. ZIEMER:** Okay. The Chair is going to rule
18 that there are two motions there, one of which
19 is to accept or to recommend approval of the
20 petition, and I would understand that to be
21 somewhat similar to the previous case since
22 there's a weighting -- already a weighting
23 issue and we'll let Jim speak to this.

24 **DR. NETON:** I just have a minor point of
25 clarification. You should probably accept the

1 evaluation report as written rather than the
2 petition, because they are different
3 definitions.

4 **MR. PRESLEY:** That's correct, the evaluation
5 report, I'm sorry.

6 **DR. ZIEMER:** So the motion is to accept the
7 evaluation report. I'm not sure what that
8 means in this context then.

9 **DR. NETON:** The definition of a proposed class
10 as contained in the evaluation report.

11 **DR. ZIEMER:** Okay. Is that -- is that correct,
12 what you're saying, Bob?

13 **MR. PRESLEY:** Yes.

14 **DR. ZIEMER:** Okay.

15 **DR. MELIUS:** Can I suggest that we sort of
16 transform that into one of our usual letters --
17 as a friendly amendment to Bob's motion and
18 that we, you know -- do that. And I think it's
19 going to very much parallel the Pacific Proving
20 Ground letter, so --

21 **DR. ZIEMER:** Yeah, well --

22 **DR. MELIUS:** -- I'd be glad to write something
23 up and give it to --

24 **DR. ZIEMER:** I guess the Chair is really asking
25 the following. The motion that Bob has

1 presented, in essence, is a much narrower
2 motion. It's a motion to accept the definition
3 of the class. It doesn't -- it does not itself
4 recommend that -- I guess it doesn't recommend
5 that we recommend that to the Secretary. Is
6 that right, Bob? You're just recommending the
7 acceptance of that definition? Or are you
8 recommending the acceptance of...

9 **MR. PRESLEY:** Well, since Jim had brought that
10 up, I -- I really think we ought to go ahead
11 and accept the petition, 00055.

12 **DR. ZIEMER:** Okay, that clarifies it then. I
13 think in that case, if it's agreeable to you as
14 the mover, we will put that motion on the floor
15 and have it seconded. And if it's agreeable,
16 defer action so that we can get it worded in
17 the more technical wording approach that we use
18 with all of these petitions, and I think Dr.
19 Melius is offering to so word that, if it's
20 agreeable.

21 **MS. MUNN:** I second.

22 **MR. PRESLEY:** It's agreeable.

23 **DR. ZIEMER:** It's agreeable with the mover, and
24 it actually doesn't re-- the motion didn't
25 require a second since it comes from the

1 workgroup, but -- so if it's agreeable, we will
2 defer an actual vote on this motion that -- the
3 motion is the -- the intent is to recommend
4 approval of the petition. We want to get the
5 motion in the appropriate words so that we can
6 act on it formally and we can actually take
7 that action tomorrow afternoon, as well, I
8 believe.

9 **DR. WADE:** Starting at 1:-- probably at 1:30.

10 **DR. ZIEMER:** After the action on the other SEC
11 petition.

12 **DR. MELIUS:** And in --

13 **MS. SCHUBERT:** Can I ask for clarification? Is
14 there going to be an -- is this just to accept
15 it as written or to accept it as written and
16 deal with the 250 days?

17 **DR. ZIEMER:** The motion is -- as it will come
18 before us tomorrow will be to accept -- or to
19 recommend approval as written. It will also
20 include the idea that the 250 days will be
21 weighted, as we talked about for the previous
22 motion on the other -- on the Pacific Proving
23 Ground site.

24 We will have to separately deal with the issue
25 of what had been called discrete events and

1 days less than 250 as a separate generic issue
2 that covers more than either of these sites.
3 So the Chair's interpretation of what action
4 has been called for is approval of this
5 recommendation. Our approval would go to the -
6 - or our recommendation for approval of this
7 class would go to the Secretary for his
8 appropriate action.

9 Sandi, did --

10 **MS. SCHUBERT:** Thank you.

11 **DR. ZIEMER:** -- did that clarify it or make it
12 worse?

13 **MS. SCHUBERT:** It actually clarified it. I
14 greatly appreciate that.

15 **DR. ZIEMER:** Yeah.

16 **DR. MELIUS:** And Bob, I'll e-mail you the
17 letters tonight.

18 **MR. PRESLEY:** Okay, thank you, Jim.

19 **DR. ZIEMER:** So without objection, we will what
20 amounts to table action on this. I'm not going
21 to formally call it tabling. We'll just defer
22 voting till we get the motion worded in the
23 standard fashion that includes all the caveats
24 as to when the motion -- or when the letter has
25 to go to the Secretary and any additional words

1 that we may need to help us clarify that 250-
2 day weighted day issue.

3 **DR. WADE:** If I might ask for a clarification.
4 I also take it from the discussion that the
5 Board will take up tomorrow how it wants to
6 deal with the issue of -- of criticality events
7 or exposures and the result--

8 **UNIDENTIFIED:** Discrete events.

9 **DR. WADE:** -- discrete events and -- and the
10 result of that will be to keep that issue open
11 and alive as we proceed forward.

12 **DR. ZIEMER:** I believe that -- that's certainly
13 my understanding of it, and that -- I think
14 that allows us to proceed with these two
15 petitions without -- and allows the opportunity
16 for later changes, if needed, without halting
17 their progress by another issue coming into
18 play.

19 **DR. MELIUS:** Can I just -- it -- it -- we can
20 discuss the details of this tomorrow, but I --
21 if I recall right, our past practice has been
22 to -- in our letter to the Secretary is to
23 document that we are, you know, only dealing
24 with part of an SEC petition or, you know,
25 we're not ruling fully and that we're keeping

1 it. Dr. Wade will kick this off and then we'll
2 see where we are, time-wise, at -- at -- when
3 we get to the noon hour.

4 **DR. WADE:** Thank you, Paul. I'm going to be
5 referring in my discussions to information that
6 should be available to you in terms of a draft
7 conflict of interest policy. Attached to that
8 is also this wonderful chart -- flow chart that
9 sort of describes how decisions will be taken.
10 I'll be referring to the text, not to the flow
11 chart, in my comments.

12 Let me just make some introductory comments and
13 then get into my explanation of the materials
14 in front of you.

15 There has been a great deal of discussion --
16 and there will continue to be, believe me -- in
17 our life of conflict of interest. Early on
18 when NIOSH had issues raised to it -- and
19 again, it's been handed out to you again, some
20 material submitted by a friend of the program,
21 Richard Miller, raising conflict of interest
22 concerns, and we've put that before you again
23 just to remind you of some of those early
24 concerns.

25 Early on there was an attempt to try and put

1 band-aids on conflict of interest policies and
2 deal with issues as they came up. The NIOSH
3 Director, several meetings ago, decided that
4 the only way to effectively deal with this was
5 to really take it back to whole cloth and to
6 look at putting forward a policy that -- that
7 was consistent into itself and represented
8 NIOSH's overall issue on -- and overall policy
9 on conflict of interest, with the understanding
10 that once this policy was vetted and agreed
11 upon it would form the basis of many of the
12 specific policies that would have to be in
13 place for other entities that are covered and
14 involved in the program. So this is an attempt
15 to try and develop that over-arching policy
16 that is consistent into itself and would form
17 as the ba-- would form the basis of other
18 policies that would be developed.

19 What we're doing today is bringing you the
20 latest draft of that policy. We would be very
21 interested in hearing Board comments on it, and
22 possibly the Board could take this issue up
23 tomorrow and offer a general opinion of the
24 Board. Short of that, we would welcome
25 individual Board members' comments on the

1 policy as it's been presented to you. We'll be
2 collecting up those individual comments, and
3 I'm sure that at the next Board meeting you
4 will see the next draft of this policy for the
5 Board to consider and -- and react upon.

6 I will tell you that as NIOSH moves forward
7 with this general policy we are trying to live
8 true to it as we move forward. We understand
9 that it'll be a document that's continuing to
10 evolve, and we will attempt to live forward --
11 to live consistent with the draft that we have
12 in front of us. We think it is important that
13 we not wait for this process to be over to try
14 and engender some of the principles contained
15 in the policy. We understand that there will
16 be further review and further drafts and -- and
17 we'll remain current with those drafts as we
18 move forward.

19 So let me try and walk you through the policy
20 as -- as quickly as I can. And it all begins -
21 - and I'm referring, again, to the document
22 that you have in your books as a draft. It
23 really begins with a statement of purpose, and
24 I'll refer you to the third paragraph of the
25 statement of purpose. This is where NIOSH sort

1 of lays out its concerns in the area. And it
2 says (reading) This statement of policy
3 balances two competing values. First, NIOSH
4 wants to ensure that it obtains all available
5 factual information about radiation doses
6 received by workers having potential benefits
7 under the EEOICPA program, from all relevant
8 sources including those individuals having any
9 past or current employment-related financial,
10 professional or organizational relationship
11 with the Department of Energy, an Atomic
12 Weapons Employer, contract operators of DOE
13 facilities, or with other parties having a
14 stake in the general or particular outcome or
15 outputs of the Program. Second, NIOSH wants to
16 ensure that all scientific judgments contained
17 in key Program function documents that are made
18 by NIOSH employees or its contractor's
19 employees about dose reconstructions are free
20 from potential or actual conflicts of interest.
21 So again, that paragraph tries to define these
22 two competing values. We want to make
23 judgments that are free from conflict of
24 interest, and yet we want to make those
25 judgments in the full light of information

1 available. And this sort of establishes the
2 tension that exists as one approaches a
3 conflict of interest policy.

4 Secondly, I'll address the issue of covered
5 entities, and that's really quite well-stated
6 in section 2.0 of the document, and the
7 shorthand code is that covered entities are
8 really anyone involved in the Program. We go
9 through a litany there that -- that talks about
10 DOE, NIOSH, other Feds, contractors and
11 subcontractors. We really intend this policy
12 to -- to cover all entities involved in the
13 Program.

14 The third piece I'll speak to are actions that
15 are required by the policy, and there I refer
16 you to section 3.0, and in the heading you see
17 the two action paths that result from the
18 policy. One is disclosure and one is
19 exclusion. Okay? If you read through the
20 words and terms of disclosure, we think that
21 everyone associated with the Program needs to
22 disclose information that is consistent with
23 the answering of the questions concerned in
24 section 3.0. I'll talk more about those
25 questions, but everyone needs to disclose.

1 The second path is exclusion. Based upon the
2 answers to the question in 3.0, the judgment
3 could be made that people have a conflict of
4 interest; and if so, they are excluded from
5 certain actions. So again, remember, two --
6 two pathways. Everyone discloses. If it's
7 determined that you have a conflict, then you
8 are excluded from certain actions.

9 Now what those actions are are listed in
10 section 4.0, and they're defined as key Program
11 functions. So again remember, if you are
12 determined to have a conflict, you are then
13 excluded from certain actions, and those
14 actions are listed as key Program functions. I
15 can go through them very quickly. Obviously
16 those key Program functions include dose
17 reconstructions. They also include site
18 profile document owners, people who are
19 responsible for site profile documents. Let me
20 read you that section because I think it shows
21 the breadth of what we're trying to accomplish
22 here.

23 (Reading) A site profile document owner is
24 responsible for coordinating and drafting all
25 site profile documents, ensuring all relevant

1 information is captured in the document,
2 evaluating the information, and establishing or
3 setting forth findings or conclusions. The
4 site profile document owner is the primary
5 writer/editor of the site profile document.
6 The site profile document owner has an
7 affirmative duty to seek out all relevant data
8 and to objectively evaluate all relevant input,
9 with no special consideration given to the
10 source (site expert or subject expert).
11 All narrative or quantitative input to the site
12 profile documents must be clearly attributed to
13 each source, whether it appears or is relied
14 upon within a site profile document -- whenever
15 it appears or is relied upon within a site
16 profile document. In addition, both site and
17 subject experts shall be clearly identified on
18 the approval page of every site profile
19 document to which they contributed.
20 And lastly, a site profile document owner is
21 responsible for any and all revisions to a site
22 profile document.
23 I read that because it sort of defined the
24 breadth of what we're trying to do there, and
25 what a document owner is responsible for and

1 what their duties are. And it also brings in
2 the fact that we're not only talking about the
3 original issuance, but we're talking about all
4 revisions.

5 It goes on in 4.3 to talk about Special
6 Exposure Cohort petition evaluation document
7 owners. We well know what they are, and I
8 won't read you those words.

9 In 4.4, Technical Information Bulletin owner,
10 and again we know what Technical Information
11 Bulletins are. They could refer to a site or a
12 number of sites. And again, you can read the
13 specific words of 4.4.

14 4.5 takes us to a slightly different area, and
15 now we're looking at reviewers of key Program
16 function documents. This is where you, the
17 Board, appears for the first time. Again, we
18 are very cognizant of the fact that we need to
19 guard against conflicts of interest where
20 people with conflicts performing the review of
21 key Program function documents.

22 And finally, in 4.6, we're concerned again that
23 these conflicts not be present in people who
24 approve -- have approval authority on the
25 documents listed above. So it's not only the

1 authoring and the owning of the documents, but
2 the reviewing of them and the final approval
3 authority. All of these things are considered
4 under this policy to be key Program functions.
5 And again, people with conflicts would be
6 excluded from performing those functions.
7 Let me go on. In section 5.0 we list, for
8 completeness, non-key Program functions. These
9 are again functions that could well be
10 performed by people with conflicts. And again,
11 I won't read that to you except to refer you to
12 section 5.3, which is the first time that the
13 Board is specifically called out in terms of
14 exclusions and remedies. What 5.3 tries to say
15 is that there are certain issues that the Board
16 takes on that Board members can take on even if
17 they have conflicts, but there are other
18 activities that the Board takes on where those
19 conflicts would cause exclusions. And I think
20 you all know what they are. For completeness
21 purpose, I'll very quickly go through them.
22 If you are conflicted on a particular site,
23 then you cannot be the individual responsible
24 for overseeing the review of that dose
25 reconstruction, the dose reconstruction for

1 that site.

2 If you are conflicted at a site and there is a
3 site profile discussion, you can be at the
4 table. You can participate in that discussion,
5 but you can't make a motion or vote on that
6 site profile.

7 And if you are conflicted at a site where there
8 is an SEC petition, then you have to absent
9 yourself from the table. You can't participate
10 in the discussion at all, save as a member of
11 the general public during the public comment
12 period. Obviously you can't move or you can't
13 vote.

14 So then we come to the most difficult of the
15 questions here, and that is who is determined
16 to be conflicted. Again, section 3.0 goes into
17 that. What I would like to do is to very
18 quickly give you a snapshot of six groups that
19 are conflicted based upon the policy as it's
20 currently written.

21 I'll remind you that for the documents we're
22 talking about, it will normally be a site
23 associated or multiple sites associated. There
24 will also be a time frame associated with it.
25 If we're looking at a Special Exposure Cohort,

1 it covers a particular time frame. So I will
2 be referring to specific sites and particular
3 time frames as I go through my comments.

4 So now to a brief explanation, and hopefully a
5 simple one, of the six pathways that could lead
6 to a determination of a conflict.

7 The first is really quite -- quite
8 straightforward. If you currently work for
9 DOE, then the judgment is that you are
10 conflicted.

11 Second, if you ever worked at the site in
12 question, then you are judged to be conflicted
13 at that site.

14 Okay, those two are fairly straightforward. By
15 work -- we define work in the document. It
16 needs to be defined in this case, and I'll read
17 you that brief definition of work. The term
18 "work" means employment related to managerial,
19 scientific or occupational safety and health
20 matters for that operator and for that
21 operator's subcontractors related to atomic
22 weapons activities at the site. So that's what
23 we mean by work. So if you worked at the site,
24 then you are judged to be conflicted.

25 Now the third of the six paths I'm going to

1 define to you starts to become a bit more
2 complex. You would be conflicted if you
3 currently work for the present or past operator
4 of the site. So again, if you current-- if you
5 currently work for the present or past operator
6 of the site, then you are judged to be
7 conflicted. Okay?

8 Number four -- and again, these get increasing-
9 - increasingly more complex. You are judged to
10 be conflicted if you worked for the operator in
11 the past and during the time that the operator
12 operated the facility, and during the time
13 frame of the key Program document. Okay? So
14 there are three things there. You worked for
15 the operator in the past; you worked for them
16 during the time that the operator operated that
17 site; and you worked for them at -- during the
18 time that covers the time frame of the document
19 under consideration. And lastly, your work had
20 impact on that site.

21 Now remember, if you ever worked at the site,
22 you're excluded, so now we're dealing with
23 situations where you might have worked for that
24 operator, not at that site but at some other
25 site, and these are the tests that would be

1 used to determine if you were indeed
2 conflicted.
3 The fifth test is you worked for DOE in the
4 past. Remember, if you work for DOE now,
5 you're conflicted. You worked for DOE in the
6 past and your work for DOE included substantial
7 involvement with the site in question during
8 the time frame in question. And we have a
9 number of people who worked for DOE. The test
10 that they -- that worked for DOE in the past.
11 The tests that they were taking were did you
12 have a substantial involvement with the site in
13 question during the time frame in question.
14 That would be the test used to determine if you
15 had a conflict, given the fact that you were a
16 past DOE employer.
17 And lastly comes to what I think is the most
18 difficult -- and in fact, in my considered
19 opinion, the most ill-defined of the tests --
20 and that refers to section 3.11, and I refer
21 you exactly to that. This was an attempt by
22 the authors of the document -- and these people
23 worked extremely hard -- to deal with a wide
24 range of issues, and I'll read, (reading) do
25 you or did you have any financial, supervisory

1 or subordinate relationship with DOE, the
2 operator, any former DOE or operator employee,
3 employee survivor or attorney representing any
4 of these parties.

5 What that's trying to get at -- if, for
6 example, you did expert witness work, be it for
7 DOE or be it for employees or plaintiffs, then
8 you would be found to be conflicted under this.
9 If you had a financial relationship, or even if
10 you gave testimony and did not -- were not
11 funded for it, were not paid for it, if you did
12 that under the supervision, quote/unquote, of
13 an attorney who was working that issue on
14 either side of the bar, then you would be
15 considered to be conflicted.

16 This also goes to issues of subcontractors and
17 their relationships. In fact. 3.11 will be the
18 place you would go to start to understand
19 whether Salient, the subcontractor associated
20 with SC&A, would be found to be conflicted,
21 given the information we talked about in terms
22 of SC&A's involvement with the Nevada Test
23 Site. This 3.11 captures a great deal of
24 information and needs to be thought through,
25 and we certainly welcome Board or individual

1 comments on 3.11 -- 3.11 is really sort of an
2 "all others" kind of a category. There are
3 many situations you could imagine, and we
4 wanted to be sure that we covered all of them.
5 I offer you that as a construct. I welcome
6 your comment.

7 The last part of it, and then I'll stop this
8 long monologue, deals with compliance, and you
9 can read compliance in section 6.0. I won't
10 paraphrase it for you. But again, we -- we
11 think the entities involved, the corporate
12 entities, the -- the government entities, are
13 responsible for monitoring compliance. We also
14 think individuals are. But we think overall
15 NIOSH has a responsibility for determining
16 verification with the policy, as practiced by
17 everyone involved.

18 So this is a -- I'm sorry for the long-winded
19 discussion, but I wanted to try and give you a
20 context of the document in front of you. I
21 find it a meaningful document. I didn't write
22 it myself. I think it's an attempt to try and
23 deal with this issue on a -- on a broad basis.
24 I appreciate the fact that it will raise issues
25 that need clarification. We wanted to put this

1 draft before the Board. We welcome comments
2 from the Board collectively, and we certainly
3 welcome comments from the Board individually.

4 **DR. ZIEMER:** Thank you very much, Lew. So at
5 this time, this is a draft. It's -- at least
6 in part is in effect, though, already. There
7 are certainly many pieces of this that you've
8 described that are already in effect.

9 You -- NIOSH is seeking individual comment or
10 Board comment on this?

11 **DR. WADE:** Both.

12 **DR. ZIEMER:** Both?

13 **DR. WADE:** And based upon whatever we receive
14 from this meeting and subsequent to this
15 meeting, we'll bring another draft to the Board
16 at its June meeting. Possibly then the Board
17 might want to spend more time deliberating. I
18 leave that to the -- to the desire of the
19 Board.

20 **DR. ZIEMER:** Okay. What we can do at the
21 moment is take a few comments or questions. We
22 may want to return to this tomorrow at some
23 time, if -- if the Board has particular issues
24 that they think need to be addressed --
25 addressed collectively. Some of you may have

1 individual issues as -- in terms of how this is
2 interpreted. I certainly will myself because I
3 see a new paragraph in here which will greatly
4 impact me, but -- I may not be qualified to be
5 on any of these.

6 Okay, Jim --

7 **DR. MELIUS:** Yeah --

8 **DR. ZIEMER:** -- Jim Melius.

9 **DR. MELIUS:** I -- I way -- I -- I actually
10 think we need to sort of digest this a little
11 bit in order to have full comments. I think
12 your comments were helpful and I understand
13 some of the intent of things that I didn't
14 understand before, and I still think there's
15 some rewording and I have some questions on how
16 extensive some of these are as they would apply
17 to certain types of -- of individuals.

18 My question is -- is where are we actually in
19 the -- with the implementation of this? I
20 think Kate Kimpan at our last meeting, or maybe
21 the meeting before, had talked about that --
22 that they were -- ORAU was in the process of
23 implementing their new policy. Then we had
24 another policy that -- that came out. Now we
25 have a sort of a third policy that -- that's in

1 place and we also have the question of -- of
2 retrospectively dealing with a large number of
3 -- of documents and -- and , some of which are
4 actively under consideration by the Board where
5 -- where this policy is -- current policy
6 you're proposing is -- has been -- been
7 violated, and how do we address those and has
8 there been any thought to that and -- and I
9 guess -- so I -- my question is, one, what is
10 the current implementation; and secondly is
11 what are we going to do about going back in
12 time.

13 **DR. WADE:** Well -- and I'll answer the question
14 and then certainly Kate or any of the other
15 contractors is welcome to come forward. We're
16 in fairly consistent communication with the
17 contractors on this policy as it evolves, and
18 we are asking the contractors to review not
19 only their current work and their current
20 staffing, but also conduct a retrospective
21 review of work that they've done and report to
22 us on conflicts that they find existed relative
23 to the policy as we're pursuing it and remedies
24 they intend to follow.

25 **DR. ZIEMER:** Okay. Kate, did you want to

1 comment? No.

2 **MS. KIMPAN:** Okay.

3 **DR. ZIEMER:** Never pass up an opportunity to
4 comment.

5 **MS. KIMPAN:** Lew characterized it exactly
6 right. As you know, it's quite unusual in any
7 world to take a new reformed policy or -- not
8 on?

9 (Pause)

10 **MS. MUNN:** That microphone is apparently
11 worthless.

12 (Pause)

13 **MS. KIMPAN:** I think Lew captured -- Lew
14 captured it very well. I'd like to -- this is
15 all on the record -- but just state clearly,
16 there was a COI policy in force with which we,
17 the ORAU team, believe we were in compliance
18 throughout the beginning of this project, so I
19 don't want any of this to create the impression
20 there was no policy. There was a policy in
21 force. The policy's currently changing.
22 Although it hasn't been finalized, what Lew
23 said is accurate. We are looking both to
24 assure our compliance with this policy, the
25 draft that you're looking at -- there've been

1 some changes between the prior draft Dr. Melius
2 referred to and this one -- but the
3 identification of who can do what role on these
4 very important tasks is quite consistent
5 between this and the immediately prior
6 iteration.

7 So we're doing two things as the ORAU team.
8 For all going forward documents that we're
9 involved in, in all aspects of our project,
10 we're assuring compliance with this version of
11 the policy -- meaning when someone via this
12 draft is identified as a conflicted individual,
13 there are certain restrictions upon the role
14 that they can take in a going-forward way.
15 There are some challenges to that
16 operationally, but it gives us no heartburn at
17 all. When the policy is finalized we'll come
18 forward with what we believe is our analysis of
19 what we've done and what we've done to assure
20 the good quality of our work.

21 Although it is quite unusual, we're also going
22 to take this policy and view things done under
23 a prior policy through the lens of this policy.
24 We want to do that for a number of reasons, and
25 Lew stated them. We want to make sure that

1 folks are satisfied with the good quality of
2 our work, and also our forthrightness about
3 declaring who had what roles and positions. We
4 believe that all of our prior work and all of
5 our current work is very good quality. It goes
6 to a bunch of different authors, different
7 quality assurance methods applied; many, many
8 hands and eyes are on these proj-- products.
9 One of the things that we're going to do for
10 any document created under the prior policy is
11 to review, under this policy, whether any of
12 the folks in key positions would have had
13 problems under the current policy. If we find
14 that to be the case on a document that's
15 already been completed, we will conduct a full,
16 independent review of the findings in that
17 document. Let me say I expect our findings to
18 stand, but we will provide an independent
19 review for someone who's not conflicted or not
20 perceived to be conflicted to assure that every
21 finding, every item in that document that can
22 affect what is going to be done on a worker, on
23 a document, is considered.
24 For the going forward documents that are either
25 under routine revision or not yet completed,

1 when we found folks to be not in compliance
2 with the current policy, we've endeavored to
3 change them out immediately and put a document
4 owner in place that, as Lew read, has very
5 rigorous responsibilities upon them to assure
6 that the conclusions in that paper are
7 accurate. We're doing that going forward.
8 For all documents -- present, future and past -
9 - we will go through, as a separate exercise
10 from this, and do full annotation and
11 attribution. As Lew said, even if somebody is
12 totally fine in the position they're in on a
13 document, it's very important that the Board,
14 that NIOSH, that the public know who suggested
15 what things in a document, where the findings
16 are from, what the scientific basis of any
17 conclusions or direction or tabular information
18 we have is.
19 So for all documents going back, whether there
20 was a conflict or not, we will go through every
21 one of our documents and we'll provide -- we
22 will provide both attribution and -- and as
23 full a sunshine as we can get on how those
24 documents were developed, what the process were
25 -- was, and who the contributors were.

1 In some rare instances where we've found that
2 the current policy would not have been in
3 effect prior, we will also conduct an
4 independent review of those findings. But even
5 if there's no problem at all, if everyone on
6 the document was totally appropriate under the
7 old policy and the new one, we'll still go
8 through and do full annotation and attribution.
9 We want to make sure that these documents are
10 viewed as credible by the folks that they're
11 affecting, the folks that are using them, by
12 this Board and others.

13 **DR. ZIEMER:** Okay. Thank you, Kate. Mark has
14 a comment.

15 **MR. GRIFFON:** Yeah, you might want to stay up
16 there. Just to -- I just want to clarify. Is
17 -- under this current proposed policy, if a
18 document owner -- a site profile document owner
19 or a Special Exposure Cohort petition
20 evaluation report document owner -- can they be
21 a site expert or subject matter expert? I'm a
22 little confused if they're exclusive or if they
23 can overlap. Can a person be an owner and also
24 identified as a site or subject matter expert
25 for the particular report?

1 **DR. WADE:** Well --

2 **MS. KIMPAN:** This policy -- I'm sorry, go
3 ahead.

4 **DR. WADE:** Well, I mean -- I think -- I think
5 the answer is that they cannot be a site
6 expert. They cannot be conflicted and be a
7 document owner, but they could be a subject
8 expert.

9 **MS. KIMPAN:** And an individual could be --
10 Mark, an individual could be in both
11 categories, a site and subject expert, and that
12 would have different constraints depending on
13 what project they were working on.

14 **MR. GRIFFON:** Right.

15 **MS. KIMPAN:** I could be both a subject expert
16 because I know a whole lot about a thing, but I
17 might have gotten that knowledge at a
18 particular site --

19 **MR. GRIFFON:** Right.

20 **MS. KIMPAN:** -- so my subject expertise could
21 be used, although clearly identified and
22 declared. As the site expert, I would not be
23 in a position to own that document.

24 **DR. ZIEMER:** Brad Clawson.

25 **MR. CLAWSON:** Maybe -- maybe I didn't hear you

1 quite right when you was bringing this out.
2 You were saying that you were going back and
3 looking at some of the past documents that
4 you've already done. Now is this going to be
5 independent from your group or is it you doing
6 it yourself?

7 **MS. KIMPAN:** The review of what the -- the -- a
8 lot will be done on all documents that went in
9 the past, Brad. Our group will -- my group,
10 the folks that work for me, will go through and
11 do the annotation and attribution. The folks
12 that developed the documents and were part of
13 very large teams are going to need to provide
14 information to someone I've assigned to oversee
15 that part of the project. So we'll go through
16 each document and assure that we're saying
17 where we got our conclusions, what our
18 scientific findings were based upon. That'll
19 go on for every document.

20 If there's a document that we have already
21 produced who -- which was produced under the
22 prior policy, in compliance with the prior COI
23 policy, but under this new policy with
24 different aspects and restrictions the person
25 would not be an eligible document owner, if we

1 have a situation where a component or an entire
2 document was owned by someone under the current
3 -- the not-yet-implemented policy would be seen
4 to have a conflict, that document will go into
5 a special category where not only will the
6 attribution and annotation occur on that
7 document, additionally we will conduct an
8 independent scientific review of the findings
9 in that document. Will it be somebody that
10 works for me? It'll be somebody I hired to do
11 that, so yes, it will be a member of the ORAU
12 team for purposes of doing this. It will not
13 be, for what it's worth, likely the same -- it
14 -- it won't be the same individuals about whom
15 there are questions, certainly.

16 **MR. CLAWSON:** I -- I guess -- I guess the point
17 I'm looking at is this Board and everything
18 else in it and its transparencies and stuff
19 like that that we've tried to -- to bring
20 forth, I want -- it -- to me, it kind of sounds
21 like you're looking at yourself again. And if
22 you've already got a conflict of interest,
23 you've got another one there. Myself, I'm
24 wondering if there's an outside group that
25 could basically, you know, over-check your

1 conflict of interest. I know we have legal
2 counsel that checks into us quite -- quite
3 frequently and they're independent from us, and
4 I was just kind of getting the feeling that
5 you're looking over your own -- your own self.

6 **MS. KIMPAN:** We -- we will have -- for what
7 it's worth, we will use both resources at NIOSH
8 and our own. When you're talking about a legal
9 determination, are we trying to figure out if
10 Kate Kimpan is conflicted at a certain place,
11 if need be we'll rely upon legal help --
12 NIOSH's legal help for that.

13 For the discussion that I'm doing about the
14 review of documents, we see that as a
15 scientific process. And after the annotation
16 and attribution are completed, we believe that
17 we can field a proper review team. I -- I hope
18 that answers. I -- I think I understand what -
19 -

20 **DR. ZIEMER:** Well, he's asking really whether
21 it should be an external, independent review
22 team --

23 **MR. CLAWSON:** Yeah, I --

24 **DR. ZIEMER:** -- versus an ORAU team.

25 **DR. WADE:** Well, I think it starts within ORAU,

1 but then it will come to NIOSH. NIOSH will
2 review it, then it will come to the Board. The
3 Board will review it. It's quite possible the
4 Board will ask its contractor to review it.
5 So Kate is just talking about the internal ORAU
6 step that goes first. Then it will come to
7 NIOSH for independent review and eventually to
8 this Board.

9 **MR. CLAWSON:** Okay, that's --

10 **MS. KIMPAN:** We expect a lot of sunshine,
11 Brad. We -- we want our findings, our
12 documents to truly be beyond refute, so
13 hopefully everyone with an interest will review
14 these documents as -- as we refine them and fix
15 anything under this new policy that might have
16 differently under the prior.

17 This -- is this also a time where I should
18 declare yet another --

19 **DR. ZIEMER:** No --

20 **DR. WADE:** No.

21 **DR. ZIEMER:** -- no, not really now. Jim
22 Melius, you had another comment or question?

23 **DR. MELIUS:** No, I -- thank you for that
24 clarification. I think it's very helpful and -
25 - but I would just ask the -- two things. One

1 is that we try to -- on the documents and the
2 sites we're currently actively looking at, some
3 of the SEC sites and so forth, that -- that we
4 try to get the -- on -- if necessary, the
5 appropriate document owner in place and -- and
6 up to speed on this because I think we need to
7 -- needs to be clear that -- that there's that
8 kind of review and ownership going on.

9 And secondly, to the extent that we can -- that
10 it's feasible to get this new annotation done,
11 I -- that's going to be -- I realize a large
12 task and I hope we could prioritize it in a way
13 so that we start with documents that we're
14 currently looking at 'cause I -- that type of
15 transparency I think would be very helpful to
16 the -- to the process where we'd know where
17 things came from -- you know, what the sources
18 were and so forth. And I think it's very
19 helpful for all of us in looking at these
20 documents.

21 **MS. KIMPAN:** Thank you, Dr. Melius, very
22 helpful comments. I also offered at the last
23 Board meeting, in this same vein, that as we
24 develop information -- of course the policy is
25 yet unfinalized, but as we develop our

1 information and our analysis, we expect to
2 provide to OCAS to bring to you all or provide
3 directly to you all what we believe we've found
4 so that you can review our findings under this
5 upcoming new policy and assure that our
6 conclusions about who was and who wasn't
7 conflicted in past documents are the same
8 thinking that you all would have. So as -- as
9 soon as the policy's finalized, we'll have an
10 analysis close behind.

11 We're looking at that very carefully right now.
12 We're not not working on this, but until the
13 policy is finalized it would certainly be
14 premature to analyze a final answer on who
15 might have had a conflict in the past.

16 **DR. MELIUS:** Yeah --

17 **DR. ZIEMER:** Thank you.

18 **DR. MELIUS:** -- but I think the annotation will
19 be very helpful to sort of redressing some of
20 these past issues, just again, the
21 transparency.

22 **DR. ZIEMER:** Will be very helpful, regardless
23 of the policy, yeah.

24 **MS. KIMPAN:** Any -- any guidance the Board --
25 we of course -- as Lew said, we're working very

1 closely with NIOSH as we prioritize how we're
2 going to do the past review. We'd certainly
3 welcome any -- any direction and instruction on
4 how y'all would like to see that occur, as
5 well.

6 **DR. ZIEMER:** Thank you. John Mauro, a brief
7 comment.

8 **DR. MAURO:** Very brief. I noticed a lot of --
9 I listened carefully, Dr. Wade, on -- a lot of
10 the language and discussion we just heard had
11 to do with an individual and ownership as a
12 expert resource. However, I guess I didn't
13 hear too much about what I would call
14 organizational conflict, which goes to --
15 toward a corporation that has a contract and
16 not -- not so much the individual now, but more
17 which contracts that they may hold as an
18 organization might in fact create a conflict
19 situation. I think that's perhaps even more
20 important or an even larger scale type of
21 question, and I did not -- I have to admit, I
22 did not hear too much about organizational
23 conflicts. I may have missed it, but I
24 certainly will look very carefully at that.

25 **DR. ZIEMER:** Does that need to be addressed in

1 a separate --

2 **DR. WADE:** Right -- why, yes. See, what we're
3 trying to do is to put together the
4 intellectual piece that's the foundation for
5 everything. That would then be taken and used
6 to develop the specific policies that would
7 deal with our contractors and subcontractors.
8 And in that situation, the tenets of this
9 policy would be embodied in terms of any
10 corporate limitations or responsibilities. We
11 also do try to deal with it in terms of the
12 financial independence in section 3.11. But
13 I'm aware of the point you raise, John, and we
14 would like this to be the document that would
15 be used to develop those particular conflict of
16 interest policies that would relate to our
17 corporate entities.

18 **DR. ZIEMER:** Thank you very much. Richard
19 Miller is approaching the mike --

20 **DR. WADE:** Richard has standing.

21 **MR. MILLER:** Process question, which is -- Dr.
22 Ziemer, I understand that on the agenda there's
23 a public comment period this evening, but I
24 would presume that that should be largely
25 reserved for folks from Rocky Flats.

1 **DR. ZIEMER:** Well, we announced earlier that
2 actually will be open to others, as well, but -
3 -

4 **MR. MILLER:** Well, let me just get to the
5 point, which is that this particular issue
6 revolving around this conflict of interest
7 policy may have been well-vetted between
8 contractor ORAU and NIOSH, but I have to say
9 that this could probably merit from some public
10 input, as well --

11 **DR. ZIEMER:** Sure.

12 **MR. MILLER:** -- and if there was a way on the
13 agenda that that could be either provided for
14 now or at a future date, depending on when this
15 is going to be finalized, I'd appreciate it
16 'cause I have a long list of questions that
17 grow out of the complaint we filed on Paducah
18 back over a year ago that seems to be driving
19 some of this policy.

20 **DR. ZIEMER:** Yeah, understood. Thank you.

21 **DR. WADE:** I think, Richard, it'll be our
22 intent when we meet in Washington, which is an
23 appropriate place, to have the comment --
24 public comment period address specifically to
25 this issue.

1 **MR. MILLER:** And so therefore the -- this
2 conflict of interest policy won't be put into
3 effect until that point in time. Is that
4 correct?

5 **DR. WADE:** It certainly won't be finalized. As
6 I mentioned, we are trying to work within the
7 tenets of it as we move forward. We don't want
8 to wait until the policy is finally approved.
9 We are trying to live consistent with it as we
10 deal with our different contractors and
11 subcontractors.

12 **MR. MILLER:** Well, at least in one material
13 respect, and I don't want to turn this into
14 that comment period, but at least in one
15 material respect, unless one can clarify this -
16 - maybe it's my misreading of this document,
17 but this policy is in fact far less protective
18 of -- of conflicts of interest than the one
19 that is currently in effect that Dr. Howard I
20 think sort of patched up, which was the
21 original ORAU policy, to deal with the Paducah
22 conflict issue that arose and he took some, you
23 know, interim steps. My understanding as I
24 read this is is that site experts as well as
25 subject experts, neither of these fall into the

1 category of what one would call a key project
2 function, and so if they're not key project
3 functions, if a site expert and a subject
4 expert are not key project functions, then
5 exactly how their COI applies here I guess
6 could benefit from some clarification because
7 right now that restriction's in place and
8 that's why I ask.

9 **DR. ZIEMER:** Thank you. And we're not actually
10 going to get into that discussion right now,
11 but keep that on the back burner. We'll have
12 opportunity to revisit this issue even tomorrow
13 if --

14 **DR. WADE:** Right.

15 **DR. ZIEMER:** -- needed and have further
16 discussion, and then I think I heard that it
17 could be on the agenda for the June meeting as
18 a specific item.

19 We need to recess for lunch, and let's do that;
20 return in an hour and we'll pick up from there.
21 (Whereupon, a recess was taken from 12:15 p.m.
22 to 1:35 p.m.)

DOL'S PROCESS FOR DETERMINING CLAIM ELIGIBILITY

FOR AN SEC CLASS, MR. PETE TURCIC, DOL

24 **DR. ZIEMER:** Okay, we're ready to reconvene the
25 afternoon session. The first item on the

1 agenda this afternoon is a presentation by Pete
2 Turcic from Department of Labor. This deals
3 with the DOL's process for determining claim
4 eligibility for an SEC class. So Pete, welcome
5 back.

6 **DR. WADE:** Possibly as Pete's getting his notes
7 arranged, we do have two Board members on the
8 telephone. Is that correct? We have Dr.
9 Lockey and Mr. Presley on the phone?

10 **DR. LOCKEY:** Yes, that's correct.

11 **MR. PRESLEY:** This is Bob Presley; I'm on the
12 phone.

13 **DR. ZIEMER:** Yeah, thank you.

14 **DR. WADE:** Good, just wanted to make that
15 clear.

16 **MR. TURCIC:** Thank you, Dr. Ziemer. I just
17 want to thank you for giving me the opportunity
18 to give a presentation to the Board to try to
19 better explain, you know, what we do and how we
20 do it in order to put a -- an individual
21 claimant into a SEC class. And to do that, let
22 me just real briefly explain some of the normal
23 claims processing.

24 And basically what happens is, you know, we --
25 we have to make a determination of whether

1 there was covered employment, and that -- that
2 may sound simple, but oftentimes that's not as
3 simple as it may appear because you have many
4 subcontractors and we've developed a lot of
5 methods of trying to get information where
6 there is very little or no records at all
7 available. And then we also have to make a
8 determination of a covered condition.

9 Now once the District Office -- once our
10 District Office receives the claim, then we set
11 up a case -- we create a case in our case
12 management system, and it's assigned to a
13 claims examiner. And the first two things that
14 the claims examiner has to do is employment
15 verification, and normally that is more of a
16 just a general employment verification, wa--
17 you know, was the individual at work at a
18 particular site.

19 Now in the SECs, the newer ones, sometimes we
20 have to go into a little bit more, you know, in
21 depth to try to put them in a specific location
22 in a -- in a certain site. And -- but the same
23 techniques and the same kind of issues, you
24 know, arise there.

25 So the claims examiner then proceeds with

1 employment verification, and the way that's
2 done, it's -- we take what the claimant is
3 claiming, the employment, and we send that to
4 either DOE -- the law basically requires DOE to
5 verify employment for us, so it'll go to DOE
6 and -- or there were a number of what we call
7 corporate verifiers and these corporate
8 verifiers are corporate -- corporations,
9 usually involved the AWEs but sometimes at a
10 DOE facility, where we'll go directly to the
11 corporation and they'll provide employment, you
12 know, information.

13 A lot of times that, you know, is not
14 sufficient, and we may go to Social Security
15 Administration, and then we also have a
16 contract with the Center to Protect Workers
17 Rights, and they have access to a lot of --
18 specially for contractors. They have access to
19 a lot of information such as pension records,
20 other information, dispatch records for unions,
21 and they'll search those records and oftentime
22 can find and verify employment that, you know,
23 we were unsuccessful. Those are really our,
24 you know, toughest of the -- of the cases.
25 And then we also use things like affidavits

1 that -- from coworkers. And again, when it
2 comes to affidavits and things like that, the -
3 - you have to weigh the totality of the
4 evidence. And depending on who the affidavit
5 is from and different situations, there may be
6 -- it may get different weight.

7 Now once we ha-- make a determination of
8 employment, then you know, we have to also
9 determine whether -- the medical condition, and
10 the same types of things happen in -- in making
11 those determinations.

12 Now the way that happens is once the claims
13 examiner gets -- you know, what the claimant
14 filed, submitted, then the claimant'll get back
15 -- it's -- it's a back-and-forth with the
16 claims examiner and the claimant. And I need
17 to stress here that unlike most workers comp
18 systems, this is a non-adversarial process.
19 And by that I mean there's not, you know, one
20 side trying to refute what, you know, a
21 claimant is claiming. And so basically the
22 claims examiner is working with the claimant
23 trying to perfect that claim as much as they
24 can, and then looking at the totality of the
25 evidence, make -- make their decision.

1 And I think a good point is that, you know,
2 claims -- claims processing is really all about
3 drawing lines. I mean that's -- you know, the
4 claims examiners have to draw lines and look at
5 the -- the total case and then make a judgment
6 and, you know, each case is, you know, very
7 different.

8 Now one of the things that we need to do, and
9 we do, is we have to give the claims examiner
10 guidance. And we do that on each of these SECs
11 because, you know, without that there just
12 would be no uniformity. So you know, when you
13 have nearly 400 claims examiners doing this
14 work, we spend a lot of time developing our
15 policy guidance and our bulletins.

16 Now as for the details of actually making a
17 determination at a SEC, first let me -- I'll
18 talk about just briefly the statutory SECs. At
19 Amchitka, for example, what was required was
20 presence. But then it went further and said
21 the individual had to have been exposed to
22 ionizing radiation. Well, in that case there
23 was very few records that would indicate any
24 kind of exposure. So in our policy development
25 there, we looked at it and did some research

1 and found that after the first shot there was
2 breakage to the surface and therefore we made a
3 policy determination that presence equated --
4 after the first shot equated exposure to
5 ionizing radiation.

6 At the -- at the gaseous diffusion plants the -
7 - what is required is that they worked at the
8 gaseous diffusion plant for an aggregate of 250
9 days, and I did -- you know, explained that we
10 do modify that in determination of the 250
11 days. But it also went on to say they had to
12 have been monitored or in an occupation that
13 had similar exposure to those that were
14 monitored. And so there again we had to make
15 policy determinations. And where we came out
16 on those was that after the -- after
17 radioactive material started showing up at
18 those facilities, then we assumed -- because
19 under current practices everyone working there
20 would have been monitored, we assumed that
21 everyone should have been monitored and that's
22 how we apply that.

23 Now there's a lot of other issues that go along
24 with that, though. Some other issues are
25 because subcontractors are included and so are

1 people providing services, and those kind of
2 issues raise -- you know, are difficult to
3 adjudicate and -- but we had to adjudicate
4 them. And to give you some examples, you know,
5 we had a lot of claims from the railroad
6 workers, people who worked on the railroads,
7 and in combination with some legal opinions we
8 came out that the mere delivery of goods does
9 not constitute providing a service. So with
10 the railroad workers what we need to do is if
11 they merely brought materials to the site, such
12 as coal, and loaded and unloaded it, they are
13 not covered. If they did maintenance or
14 construction, then that made them eligible.
15 And the reasons we've got to do these things,
16 if you didn't have -- if we didn't apply these
17 -- I mean if you stop and think about it, I
18 mean you have everything from people who come
19 in and fill the vending machines -- I mean that
20 is a subcontractor.

21 And another example that we ran into, we had
22 people from Metropolis that would go to Paducah
23 -- chemists -- that would go collect samples,
24 take samples, and then take them back to be
25 analyzed. There again we had to develop policy

1 and came down that that is a covered function
2 and those -- those folks were covered.
3 We ran into another problem with -- there were
4 quite a few government -- employees of other
5 government agencies, and what we had to
6 adjudicate there was if they -- if they were
7 doing the function that their agency was
8 mandated, because of that mandate then they are
9 not covered. An example there would be a Post
10 Office. You know, DOE did not pay the Postal
11 Service to have a Post Office at the Nevada
12 Test Site, so they would not be covered. On
13 the other hand, there were a lot of government
14 agencies that were in fact a subcontractor of
15 DOE, so if there was that relationship -- and
16 to get into that, you know, we have to go back
17 and look at Memorandum of Understandings and,
18 you know, things like that and make a
19 determination in each case.
20 And then, again, I discussed a little bit
21 earlier about how we count the 250 days.
22 One of the guiding principles that we use,
23 especially in these new SECs, is that, you
24 know, we need to follow what the designation
25 is. And that's why if you remember at the St.

1 Louis meeting I think Shelby made a point that
2 it's -- it's very important for the Board, in
3 your recommendations, to be as precise as you
4 can in both the definition of the class, but
5 then also as to the rationale for the class
6 because then that starts playing, you know,
7 very important role in what is done.
8 But Mallinckrodt, for example, the earlier --
9 the earlier years, because the designation --
10 and again, Mallinckrodt designation is on
11 space. And from our point of view, your --
12 it's a lot better to have a designation, you
13 know, defined as some space as opposed to some
14 function. Functions become extremely difficult
15 as -- as I'll get into in a minute. So at
16 Mallinckrodt it was a matter of the 250 days
17 and -- but then the issue on the -- the reason
18 for the early years of Mallinckrodt was the
19 lack of data. So in -- in that case, since it
20 was a lack -- a total lack of data, there were
21 no -- for the non-specified cancers, there was
22 no option for any dose reconstruction, so what
23 we had to do there -- and again, we would only
24 look at the cases -- the non-specified cancer
25 cases that only had time in the early years and

1 didn't go into the later years because, you
2 know, then they would fall into -- into that
3 category. And -- but those, and I think there
4 were a total of three cases that ended up that
5 were denied because they were non-specified
6 cancers and there was no ability to do any dose
7 reconstruction.

8 Then Mallinckrodt the later years, again -- it
9 was identical, the 250 days at that location,
10 and -- with the difference being that those,
11 the non-specified cancers, those cases remained
12 with -- with NIOSH for the partial dose
13 reconstructions.

14 At Iowa, and we did have a -- again, that was
15 designated by space, but we did have a problem
16 there, and the problem -- we were able to
17 resolve it. The problem was the evaluation and
18 everything was done, and the reason -- the
19 exposures that could not be dose reconstructed
20 was Line 1 plus all those number of other areas
21 that was in parentheses. Well, that didn't get
22 into the designation, and that became pretty
23 difficult to -- to deal with. Now the way we
24 were able to resolve that was that in looking
25 at everything there we were able to say that

1 those other areas -- the yard, the firing pits
2 and all that -- really had become synonymous
3 with Line 1, so therefore we were able to
4 include those areas, you know, without, you
5 know, having to go back and have another SE--
6 another SEC established for them.

7 Linde, again, is just the 250 days. And then
8 the earlier -- the Y-12, the uranium enrichment
9 activities and other radiological activities,
10 we're still working and trying to resolve all
11 the policy issues in that bulletin, and this
12 one is very difficult because the designation
13 is based on functions. So what we're
14 struggling with and the way we're handling that
15 is that -- we're looking at occupations kind of
16 in three different groups. I mean we -- we
17 have to, because it is a function and not a
18 location. And you know, the first group are
19 those occupations that we have identified that
20 are just assumed to be, you know, in that class
21 based on the occupation -- things like the
22 Calutron operators, chemical operators,
23 recyclers, Calutron cleaners, things -- you
24 know, occupations like that. So -- so those
25 are pretty easy.

1 Where it gets more -- more difficult is then
2 there's a group of occupations where it's most
3 likely they were not involved and not included
4 in the class. And those would be things like
5 clerical, accountants, cement finishers --
6 these are actual cases that we have that we're
7 -- we're dealing with now -- cafeteria workers,
8 couriers, machinists. And the instructions and
9 the way we handle those, we would develop it
10 with the claimant. We would go to the
11 claimant, give them the opportunity to, you
12 know, provide information that they were in
13 fact involved in radiological -- uranium
14 enrichment or other radiological activities.
15 And the instructions to our CEs for that type
16 of job is that in those we're going to need,
17 you know, some kind of specific evidence that
18 they were involved in the uranium enrichment or
19 other radiological activities.

20 And then the middle group are occupations that,
21 you know, could be -- could have been involved,
22 but, you know, they -- they could be -- been
23 working in other areas of -- of Y-12. Those
24 are the things like the maintenance workers,
25 you know, mechanics, instrument technicians

1 and, you know, security guards. And in those
2 kind of cases what we do is the CEs would
3 develop it, but then what they would be looking
4 for would be, in the absence of evidence to the
5 contrary and -- you know, that they would
6 include them in the class. But you know, if
7 the CATI or if, you know, our occupational
8 history interview or, you know, some other
9 document, our DAR reports that we get from DOE,
10 if that put them somewhere outside of that
11 area, then you know, we would not assume that
12 and we -- they would have the opportunity to
13 show that that was incorrect, but then that's
14 how that would proceed.

15 And that's kind of just the basic overview and,
16 you know, I know people may have some specific
17 questions about some of the more recent ones
18 and I'd be glad to try to answer any questions.

19 **DR. ZIEMER:** Thank you, Pete. That's very
20 helpful. Let's see if there are indeed
21 questions from the Board. Yes, Brad.

22 **MR. CLAWSON:** You used the term place or space,
23 and I guess -- I guess the reason why I kind of
24 look at this is -- is if you were to take a
25 look, say at my position at the INEL, it'd show

1 me as a fuel handler and it'd show me at one
2 facility, 666. But I'm also responsible for
3 603, 749, 10, the north end, 30 -- you know,
4 and -- and I guess this is my question of --
5 some of the -- I guess that's maybe kind of why
6 I've seen them push more towards, you know,
7 like Y-12, not a certain position. I'm just
8 wondering how do we -- I guess I'm thinking
9 about the maintenance workers because I think
10 of them in the same position as myself. I mean
11 they go numerous places and it's a concern to
12 me that they're covered.

13 **MR. TURCIC:** Yeah, they -- in those cases, like
14 I'm saying, with -- with a maintenance worker,
15 which -- if -- you would expect that
16 maintenance workers could be sent, you know,
17 anywhere and they could have been in the
18 uranium enrichment activities. So in -- like I
19 was -- in those kind of cases, we would make
20 the assumption that they were included unless
21 there was something in the file to the
22 contrary. If there was something to the
23 contrary, then we wouldn't ignore that.

24 **MR. CLAWSON:** I -- I guess what I'm -- I heard
25 from the public meeting in Oak Ridge was one of

1 the individuals was discussing about being a
2 machinist --

3 **MR. TURCIC:** Uh-huh.

4 **MR. CLAWSON:** -- and because he was a machinist
5 they were figuring he was in this one place,
6 but according to them, he -- he was all over.
7 And if we do -- if we do do it this way, do
8 they have an opportunity to be able to --

9 **MR. TURCIC:** Absolutely.

10 **MR. CLAWSON:** Absolutely to --

11 **MR. TURCIC:** See, that's -- that's where the
12 development would come in. You know, we would
13 send a development letter saying, you know,
14 you're a machinist, you know, did you work in
15 these areas -- areas and then maybe we would
16 also go back to DOE, you know, look at other
17 exposure records. You know, there's a lot of
18 places that we would start looking for that.

19 **MR. CLAWSON:** That'd be fine if it was -- if
20 you still had the individual still living, but
21 you know, as we found out in many security
22 issues and so forth, if you were to ask my wife
23 what I did, she'd -- really wouldn't be able to
24 even tell you to this day. She knows of
25 certain areas that I do work, but -- you know,

1 and this was even magnified so much more in the
2 early days.

3 **MR. TURCIC:** Yeah.

4 **DR. ZIEMER:** Jim Melius.

5 **DR. MELIUS:** Yeah. Thank you, Pete. I think
6 it's helpful to get clarification on this
7 issue. Couple of points. One is that I think
8 that we need to obviously be careful when we're
9 doing the class definition. I think it's going
10 to develop out of the -- our evaluation of the
11 monitoring data and the exposures at the site
12 and basically determination of who cannot have
13 their dose reconstructed. And then I think we
14 need to take the step of trying to figure out
15 how -- once we've got that -- figure out how do
16 we define that group in a way that it becomes
17 operational and can be verified based on -- on
18 records and so forth. We'll -- because of the
19 time periods involved and so forth we'll never
20 be perfect and there may be people with odd
21 work patterns or something that --

22 **MR. TURCIC:** Exactly.

23 **DR. MELIUS:** -- just may have to be dealt with
24 on an individual basis. But to the extent that
25 we can, we can do that. In some cases it may

1 very well be by defining buildings.

2 **MR. TURCIC:** Uh-huh.

3 **DR. MELIUS:** In some cases, when it's a larger
4 part of a site or something, it may just be
5 people on the site or monitored or should have
6 been monitored kind -- kind of designation, and
7 I think it's just important that we -- we think
8 through it -- through that -- that step and so
9 forth and it's a little hard -- difficult for
10 us because we don't always see the -- the
11 records and --

12 **MR. TURCIC:** Right.

13 **DR. MELIUS:** -- so forth. And plus even for --
14 I mean NIOSH and the deliberations here, we're
15 often changing, you know, the -- the
16 recommendations as we -- we go -- go through
17 these and refining them in some way and so
18 forth, but -- but I think if we can just keep
19 in mind how to define it in a way that it'll be
20 operational for you without having to put a
21 large burden on the -- the claimants to have to
22 then prove addition or provide additional
23 information, to the extent that that's possible
24 now.

25 **MR. TURCIC:** And we try to do that as we're

1 going through and develop our policy to our
2 claims examiners. For example, it's not an
3 SEC, but a very similar thing happened at
4 Blockston (sic) Chemical.

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

6 **MR. TURCIC:** When we looked at it, we were
7 unable to put people into building 55.

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

9 **MR. TURCIC:** And so then we had to make a
10 policy determination, and where we came out on
11 that policy determination was that since we --
12 we weren't able to do that, we then just said
13 employment verification with Blockston equated
14 to working in building 55.

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

16 **MR. TURCIC:** The exact same thing was done at
17 Bethlehem Steel.

18 **DR. MELIUS:** Yeah.

19 **MR. TURCIC:** I mean we probably -- we've
20 probably paid more -- did more approvals than
21 there could have been working on that one mill.

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

23 **MR. TURCIC:** And because there was just no way
24 that -- were we able to, you know, narrow it
25 down to that one mill, so again we made a

1 policy determination that, rather than, you
2 know, just leaving it open to affidavits for
3 everybody, we're better off and it was better
4 public policy --

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

6 **MR. TURCIC:** -- to make the determination that
7 employment verification at Bethlehem Steel
8 equated to --

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

10 **MR. TURCIC:** -- working at the -- the mill that
11 was in question.

12 **DR. MELIUS:** I mean I would just hope that as
13 we're evaluating these and reviewing these that
14 we could get input from you and your staff as
15 to --

16 **MR. TURCIC:** We'd be glad to, yeah.

17 **DR. MELIUS:** -- to make sure that we're -- you
18 know, that what's getting sent over to you
19 eventually is something that's -- that's useful
20 'cause it -- I don't think it helps again to --

21 **MR. TURCIC:** It doesn't.

22 **DR. MELIUS:** -- take six months or whatever to
23 figure out how to then --

24 **MR. TURCIC:** Yeah, exactly.

25 **DR. MELIUS:** -- validate these claims.

1 **DR. ZIEMER:** Thanks. Mike Gibson.

2 **MR. GIBSON:** This information is helpful, Pete.
3 But also I'd just like to remind you that some
4 sites -- and in particular, like at Mound,
5 there was a lot of buildings that had more than
6 one process going on in the building, and --
7 for instance, even with a Q clearance, there
8 may be one area of the la-- of a building that
9 these technicians were putting together this
10 widget and maintenance people would have to
11 come in and maintain the equipment, and even
12 with a Q clearance, without the need to know,
13 we didn't what isotope was in that lab.

14 **MR. TURCIC:** Right.

15 **MR. GIBSON:** And so, you know, it's unknown to
16 the employee what they may have been exposed to
17 'cause there may have been several different
18 isotopes in one building.

19 **MR. TURCIC:** Yeah. And I think that's the
20 point, though, that Dr. Melius was getting to,
21 that the -- the first determination is what
22 exposures cannot be dose reconstructed. And
23 then it's almost a different function in a
24 sense, a different analysis, to then look at
25 what information is available to then

1 structure, you know, the definition so that
2 that -- those splits can be made.

3 **MR. GIBSON:** Are there people on your staff
4 that are Q cleared that have the right to go
5 into DOE --

6 **MR. TURCIC:** Yeah.

7 **MR. GIBSON:** -- and get these classified
8 discussions on certain isotopes?

9 **MR. TURCIC:** Yeah.

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

11 **MR. GRIFFON:** Pete, can you -- I -- I'm trying
12 to figure out -- I'm looking at a letter here
13 from Linde, I -- or actually it was from you to
14 NIOSH regarding Linde.

15 **MR. TURCIC:** Okay.

16 **MR. GRIFFON:** And at the end you ask for the
17 work -- the employees at the Linde plant in
18 buildings 30, 31, 37, 38 who would be either
19 listed cancers or non-listed cancers. It -- I
20 -- I mean you're -- are you making the
21 determination on who meets the class definition
22 or -- this seems like a request back to NIOSH.
23 I'm not clear on this.

24 **DR. ZIEMER:** DOL -- who's making the
25 determination is the question as to whether --

1 **MR. TURCIC:** Oh, of who --

2 **DR. ZIEMER:** -- they were in the class --

3 **MR. GRIFFON:** Who were members of the class,
4 right.

5 **MR. TURCIC:** Yeah, we do.

6 **MR. GRIFFON:** So you -- you determine --

7 **MR. TURCIC:** I mean if you're saying whether
8 someone is eligible, we take the class
9 definition. Okay? And then based on that
10 definition, in adjudicating the claim we need
11 to make a determination whether someone meets
12 the profile that is established.

13 **MR. GRIFFON:** Okay, so maybe I misread -- I
14 mean this letter seems to be asking --

15 **MR. TURCIC:** I -- I think there's a --

16 **MR. GRIFFON:** -- NIOSH to provide this list of
17 who was --

18 **MR. TURCIC:** No, no, what we --

19 **MR. GRIFFON:** -- at certain buildings. It's
20 not --

21 **MR. TURCIC:** -- do there, Mark.

22 **MR. GRIFFON:** -- it's not the case?

23 **MR. TURCIC:** What we do there is, because these
24 cases are, you know -- we have records and
25 NIOSH has records, and there could have been

1 changes in the meantime, additional cancers
2 might have come in, things like that, the first
3 thing that we always do is come up with --
4 NIOSH comes up with their list that -- and we
5 would come up with our list and we kind of
6 cross-match them so that we make sure -- you
7 know, we're trying not to miss something that
8 maybe was just coded wrong or maybe the
9 situation on the claim had changed. So that's
10 the first step that we do. And then, depending
11 on whether they're going to be -- depending on
12 what's going to happen to the non-specified
13 cancers in a particular case, then they either
14 -- what we try to do is to only have the cases
15 that involve a specified cancer come back to us
16 if there's going to be, you know, further dose
17 reconstructions for the non-specified cancers.
18 So that's -- that's what that back and forth
19 is.

20 **MR. GRIFFON:** Okay.

21 **DR. ZIEMER:** Further comments or questions?

22 (No responses)

23 Okay. Thank you very much, Pete, for that
24 discussion.

25 Y-12 SEC

1 We're going to move here momentarily into the
2 discussion of the Y-12 SEC. I -- for Mr.
3 Presley's benefit, I think he probably recluses
4 (sic) himself on this. Is that correct? But
5 is he -- he is allowed to listen --

6 **DR. WADE:** Right, he can stay on the --

7 **DR. ZIEMER:** -- but not enter into the
8 discussion.

9 **DR. WADE:** Correct.

10 **DR. ZIEMER:** And I will be reclusing (sic)
11 myself.

12 **DR. WADE:** Right, this -- let me identify the
13 conflicts on Y-12, and there are three -- Mr.
14 Presley, Drs. DeHart and Ziemer. Under the
15 procedures of the Board, they would leave the
16 table. They could participate as members of
17 the public, but not as members of the Board in
18 this particular segment of the Board's
19 deliberations. So I will ask them to take
20 prominent seats in the audience.

21 Based upon consultation with counsel, I will
22 act as Chair in an administrative capacity. I
23 will not be voting, but will try and take what
24 I've learned from -- from Dr. Ziemer and apply
25 it.

1 Just a note that, given the situation that has
2 taken place in terms of three members needing
3 to recuse themselves (sic), we now have seven
4 Board members involved in the discussion with
5 the ability to vote. The seventh is Dr.
6 Lockey, who is on the call -- Dr. Lockey, are
7 you still with us?

8 **DR. LOCKEY:** Yes, I am.

9 **DR. WADE:** Okay. A quorum of the Board is six,
10 so that we have more than a quorum of the Board
11 present and we can continue with our business.
12 I would also point out that, based upon
13 discussion with counsel, Dr. Ziemer will be
14 allowed to undertake certain administrative
15 tasks associated with this activity, such as
16 preparing a letter to the Secretary, should
17 there be -- should he be so directed by the
18 Board who's present. We don't want to let him
19 get away from the work, and I don't think it's
20 appropriate that I would prepare a letter or
21 sign a letter to the Secretary. So Paul,
22 you're not off the hook completely. We will
23 still work you, but you just can't join us at
24 this prestigious table.
25 So with that, we'll move into the agenda and if

1 we had a call on April 20th. Of course we've
2 been reviewing some of the issues for quite
3 some time through the site profile review
4 process, but there were many new things,
5 including the class definition, in the
6 evaluation report so a lot of the work had to
7 be done starting with the receipt of the
8 evaluation report. And so the point of these
9 remarks is we know -- we know NIOSH has only
10 received our latest report on April 24th and
11 everybody had very short time to react, so we
12 are open to discussion on many of these issues
13 and we tried to research the issues and -- and
14 bring them to the table as best we could in the
15 time available.

16 I just want to correct two typos from
17 yesterday. I will send around a new Ames
18 presentation. There were two elements in one
19 of the tables that were in the wrong column, so
20 I just want to put that on the record.

21 Okay. Our -- our biggest finding I guess is
22 that we -- we agree with the NIOSH
23 determination that the data are not adequate to
24 reconstruct doses for workers who were
25 monitored or should have been monitored for

1 exposure to thorium in the period covered by
2 the SEC petition, '48 to '57. So that was the
3 NIOSH finding, and our basic finding also. We
4 didn't find a lot of data there and -- and so
5 we agree with NIOSH on that.

6 We looked at the buildings that NIOSH had and
7 areas that NIOSH had defined on -- on... On
8 April 20th NIOSH did say that they had
9 researched these very carefully. We had not
10 gone through the underlying documentation at
11 that time. NIOSH did supply us, and the e-mail
12 is reproduced in the April 24th report, with a
13 set of references. We did look at these
14 references, admittedly not as thoroughly as we
15 would like. There were just a couple of days
16 really to prepare the response to the April 20
17 conference call. So these -- these comments on
18 the area and the buildings are offered in the -
19 - in that spirit, that -- we're not saying that
20 there are new areas of building that should be
21 added to what NIOSH has done. We've just tried
22 to identify areas that we think need some
23 further investigation than what was indicated
24 in the evaluation report.

25 And the scale of thorium discards at Oak Ridge

1 -- and I'm not saying now Y-12 specifically,
2 but at Oak Ridge -- in the SEC petition period
3 was -- was quite large. As I added it up, the
4 total discards through 1957 inclusive were
5 almost 800 kilogram, most of them were to the
6 burial grounds and/or the S-3 pond, it's not
7 differentiated. There were also quite a lot of
8 discards to the sewers and -- the sanitary
9 sewers. 800 kilograms of discard, if you
10 assume a typical few percent discards at most,
11 indicates a very much larger scale of
12 processing at Oak Ridge than -- that at least I
13 -- I -- I thought we were talking about. It's
14 not clear how much of this was at X-10 or at Y-
15 12. Most of the discards were at the burial
16 ground associated with X-10, which is in a
17 footnote in one of the reports. But it doesn't
18 identify where the thorium came from. It seems
19 reasonably clear that there were classified
20 activities going on in the period and -- and it
21 -- we think that a classified investigation may
22 be necessary.

23 There was a sort of a mismatch, and we're not
24 sure about the period of the mismatch, but
25 there are two buildings defined in the -- in

1 the site profile as being described as
2 associated with thorium-230, which is a
3 different isotope. We've been talking about
4 thorium-232 so far. Those are 9215 and 9720-5.
5 One of them is a storage area. And we don't
6 know whether that applies to the SEC period,
7 it's not clear. I have not gone through all
8 the background documentation and we -- since
9 they are not in the list that NIOSH has
10 included, maybe the dates on those could be
11 investigated to see whether they belong or not.
12 Okay. Much of our discussion on the -- during
13 the workgroup meeting has revolved around the
14 verification of what has come to be called the
15 CER database and what NIOSH has identified as
16 the database that DOE regards as the database
17 of record. And they have an internal/external
18 component. NIOSH did quite a bit of data
19 validation and verification of that database
20 for internal data. There was a maximum dose
21 match-up for 1950. There were health physics
22 reports -- quarterly reports matching for 1952,
23 and there were also validation activities for
24 1953. And while there were years that were not
25 matched up, we didn't find any particular

1 discrepancy or problem that we thought would
2 invalidate the use of the data for dose
3 reconstruction. It was limited, but there were
4 no problems that came up in the verification.
5 The picture's a little bit different for
6 external dose. The external dose record for
7 1951 in the CER database contains essentially
8 all zeroes for '50 and '51. We matched up --
9 there's another database called the delta view
10 database which consists of raw data, and that
11 has some records from '51, perhaps they are
12 mixed up X-10 and Y-12 records. We didn't
13 investigate that, but there are discrepancies
14 because all of the -- all of the entries for
15 '50 and '51 are zeroes. This -- this doesn't
16 appear to be correct, especially against the
17 assertion that the people who were monitored
18 had the highest exposure potential, and so
19 NIOSH sent us a communication saying that --
20 that they agreed that this data could not be
21 used for dose reconstruction. Then during the
22 conference call of April 20th, it was stated
23 that the person who said that -- in the -- in
24 the communication it was stated that the
25 discrepancies or the zeroes may be due to a

1 software problem. Then during the conference
2 call of April 20th, that statement seemed to be
3 withdrawn, so we're not quite clear as to what
4 the status of that communication is and what is
5 the source of these discrepancies. It doesn't
6 appear likely that they're all correct zeroes.
7 They're not going to be used for dose
8 reconstruction, we understand, but -- but still
9 the problem with entries that appear to be
10 incorrect in the database will -- raises
11 questions about the integrity of the database,
12 quite apart from whether they're going to use
13 for dose reconstruction or not.
14 There are internal inconsistencies in the CER
15 database in a part of the CER database through
16 1955. The five columns showing external dose -
17 - there's -- there's an illustration in the
18 report -- I don't remember the page, but
19 there's a table in the report that shows four
20 of those five columns -- beta, gamma, shallow
21 millirem and penetrating millirem, and there's
22 also a column for neutron dose. And the
23 penetrating millirem is supposed to be the sum
24 of the gamma and the neutron, but through 1955
25 every non-zero entry in the penetrating -- in -

1 - in the gamma or neutron does not add up to
2 the penetrating millirem. Penetrating millirem
3 is always less than the sum of the other two
4 when they are non-zero. And it -- while that
5 column is stated to be not scheduled for use in
6 dose reconstruction, again, we have the same
7 problem, as the other database of record that
8 has a large number of entries that appear to be
9 incorrect.

10 Then there's a problem of systematically --
11 systematic discrepancy and one doesn't know
12 then whether there might be other errors in
13 other parts of the database that hasn't been
14 identified yet.

15 There was a NIOSH validation for 1953 that came
16 up okay, but because of the problems in the
17 other areas we felt that there should be
18 verification for '52, '54 and '55 to some
19 extent. There were no internal inconsistencies
20 that we discovered for '56 and '57, but there's
21 no external database matching with other
22 records like raw data records or health physics
23 reports or anything like that for -- for those
24 years or for any of the years from which the
25 coworker database has been filled. So there

1 are a considerable number of issues that we've
2 raised with the external part of the CER
3 database.

4 The specific issues associated with a group of
5 workers called the salvage and recycling
6 workers -- there's a typo on -- on page 18 of
7 your report. The first building is missing the
8 last digit. It says 920, it should say 9206.
9 It's correct on the slide there. These three
10 buildings are identified in the site profile as
11 having salvage and recycling operations that
12 ended in '51. And we've discussed the issue of
13 how best to characterize and construct coworker
14 doses for -- for these workers. Internal dose,
15 the Technical Information Bulletin for these
16 identify internal data available for these
17 years is very -- being very limited and rather
18 on the low side. The -- NIOSH proposes to use
19 -- now this is from -- I forgot to give you one
20 caveat is we don't have of course the
21 transcript from April 20th and John Mauro took
22 notes. And to the extent that those notes are
23 not verified against a transcript, and we were
24 obliged to use what notes we had in order to
25 represent the conversation on -- on April 20th

1 in order to be able to respond -- we understood
2 from John Mauro's notes that NIOSH had proposed
3 to use the 95 percentile of the early '50s data
4 and that this may be a reasonable approach.

5 But --

6 **DR. NETON:** That's incorrect, Arjun.

7 **DR. MAKHIJANI:** That's incorrect. I -- we had
8 an internal debate about that. I didn't
9 remember it that way. It was in John's notes.
10 So I'm glad that we have a real-time
11 correction. So I -- I'll just say for the
12 record then that that piece of it should be
13 disregarded. The -- the --

14 **MS. MUNN:** I don't know which piece should be
15 disregarded.

16 **DR. MAKHIJANI:** Some -- some approach needs to
17 be found that applies to this particular set of
18 workers to show that the coworker model that is
19 being used from the early '50s will be bounding
20 for the types of jobs that they were doing for
21 internal dose.

22 I think -- I think that we have some of the
23 same issues for external dose. In addition,
24 while there were no problems identified with
25 the internal dose database of the type I

1 discussed for external dose, in the case for
2 ext-- of external dose we have the additional
3 problem of database of record suffering from
4 systematic discrepancies. And so how these
5 doses are to be reconstructed, especially for
6 salvage and recycling workers for this period,
7 at least seems like an open question to us.
8 There have been a lot of -- monitoring was not
9 universal at Y-12 until 1961 when everybody was
10 badged. The number of badged workers increased
11 fairly steadily through the 1950s, and we do
12 agree with the overall idea that the
13 supervisors -- the idea -- the policy was to
14 try to badge the workers with the highest
15 exposed -- potential. We have discovered that
16 this was sometimes successful and sometimes
17 not. If you take the 1961 to 1965 period as
18 indicating who really had the highest exposure
19 potential there were two broad bins that were
20 fairly successful: some buildings and workers
21 who had low exposure potential and some who had
22 high. But among the second group there was
23 some -- some difficulty in actually
24 successfully identifying all of those workers,
25 so we had some questions about the coworker

1 model that NIOSH had constructed on the
2 assumption that all of the badged workers were
3 workers with the highest exposure potential.
4 I'm trying to quote a paper accurately. I
5 believe that that's an accurate representation
6 of it.

7 Also as I noted earlier, there's been no data
8 validation for the period of this coworker
9 model, and in view of the problems in the
10 external dose CER database, we think that at
11 least some is -- should -- should be done.
12 These are the slides we talked about. Dr.
13 Glarinski*, who's a statistician on our team,
14 did a correlation of the mean doses in -- among
15 the -- among the buildings with relatively high
16 exposure potential, the mean from the '55 --
17 '56 to '60 compared to the mean dose from '61
18 to '65. As you can see from the scatter plot,
19 the correlation is rather low.

20 We also did -- sorry. We also did a
21 correlation between the percentage of workers
22 who were monitored in the various departments
23 versus the mean dose in the same department in
24 the '61 to '65 period when everybody was
25 monitored, and presumably you have a better

1 idea of which departments had the highest
2 exposure potential from the latter period. And
3 again the correlation, as you can see from the
4 scatter plot was -- there was some correlation,
5 but it's pretty weak.

6 On the other hand, there seems to be some
7 success within the period. If you say which
8 were the departments in which the highest
9 number of workers were monitored compared to
10 the department that had the highest average
11 dose, you see that within the period there was
12 some success. This R squared from this
13 correlation was .49, if I remember correctly,
14 so within the '56 to '60 period there was some
15 success, but then again it's clear that there
16 were departments in -- in -- which were not so
17 successful in identifying those workers with
18 highest exposure potential.

19 All right, we discussed this quite a bit
20 yesterday about a quantitative task for
21 determining, you know, how much confidence you
22 have in data validation so I'll skip over it.
23 The -- in the interest of time.

24 In regard to uranium workers, NIOSH has stated
25 that it can reconstruct doses for uranium

1 workers, but we didn't find a clear definition
2 of uranium worker. From the description in one
3 of the buildings where thorium was processed,
4 it was clear that some areas in that building
5 were thorium areas that had mixtures of uranium
6 and thorium dust, and other areas were regarded
7 as uranium dust areas only. The question arose
8 as to what happens if trace quantities of
9 thorium dust were present for workers who were
10 defined as uranium workers, and this problem
11 arises for uranium workers -- not so much, for
12 instance, if you have plutonium and thorium
13 mixed up -- because the dose conversion factors
14 for certain organs for thorium are orders of
15 magnitude bigger than for uranium. We looked
16 at the mass -- so when I brought this up on the
17 conference call on April 20th, Mel Chew said
18 that you require a much, much bigger mass of
19 thorium-232 because it has a much larger half-
20 life compared to uranium. I did check into
21 this. I did -- I did state for the record that
22 I didn't think that was entirely right. I did
23 -- I did check into this. For natural uranium
24 versus thorium-232 in equilibrium without their
25 non-apparent decay products -- that is non-

1 thorium decay products and non-uranium decay
2 products -- the ratio's about three to one, not
3 100 to one as Mel Chew stated. And if you do
4 depleted uranium to thorium-232, which is
5 always in equilibrium pretty much with thorium-
6 228, then you get a ratio of about 1.8 to one.
7 So the mass -- the mass question is not a very
8 relevant question. Radium-224 builds up very
9 rapidly in thorium, also, within weeks. And so
10 I don't think that that particular issue is
11 important. And trace thorium.
12 In the first report you got we hadn't covered
13 recycled uranium. We do have a section on
14 recycled uranium. In the main we think it is
15 not a Special Exposure Cohort issue.
16 We have some discussion about what ratios might
17 be appropriate. We have a review -- a broader,
18 sort of generic review of this issue in
19 preparation. Dr. Thorne is -- on our team is
20 doing that, but we used some of that
21 information and -- and we did prepare a section
22 for this particular report.
23 The items that we do think -- where we have
24 some concerns and reservations that need to be
25 worked on some more just to demonstrate how the

1 question of sludges and waste streams are going
2 to be handled. But mainly we don't think that
3 this is -- apart from that, we don't think this
4 is an SEC issue. It's covered in -- in the
5 site profile and can be resolved mostly in that
6 context.

7 As you know, there were lots of radionuclides
8 that were handled at Y-12 in the
9 Calutron/Cyclotron area. Polonium-208 was one
10 of them, a relatively short half-life material.
11 And NIOSH has stated that it has sufficient
12 data for dose reconstruction -- incident data
13 are present. They com-- NIOSH has compiled
14 data from this -- from the delta view database
15 into a spreadsheet. I did look at that. The -
16 - that database for the SEC period only
17 contains a few internal bioass-- few -- few
18 entries for bioassay data, almost all of which
19 seem to be related to one incident in 1953, and
20 all of which are from 1953.

21 There was a sample DR, and again another
22 caveat. There are lots of sample dose
23 reconstructions that were done. We've only
24 skimmed them. We -- we've not really given
25 them the due credit of actually studying every

1 file in -- in them and -- and so we -- so some
2 of these comments should be taken in that
3 spirit. We didn't have the chance to look at
4 any 1952 data. They're not in that delta view
5 database. They might be in an incident report
6 that we haven't had a chance to look at or in
7 individual data that we don't have at the
8 present time. So there has been an assertion
9 by NIOSH. We -- we think that these data exist
10 there may not be an issue but -- but we haven't
11 had a chance to address and -- and resolve
12 these issues so -- so we don't know for -- for
13 -- from that point of view, for us, this
14 remains an open issue for the SEC and until
15 that -- that database is explained or published
16 and made available.

17 Plutonium -- by contrast to polonium, there's
18 quite a lot of bioassay data for '52 to '56.
19 We haven't done any verification, but just on -
20 - on the basis of what's available, it seems
21 that individual and coworker doses should not
22 be a problem for those years. We didn't see
23 any data for 1957 for plutonium, bioassay data.
24 The coworker model, so far as I know, hasn't
25 been developed as yet -- or at least I didn't

1 see it. The -- there was an allusion to
2 plutonium in 1951 or earlier, and I don't -- I
3 don't know if that actually is the case or how
4 that would be handled, and some data are
5 classified. So plutonium for the years for
6 which data are available is largely not an
7 issue, but -- but there are some sort of
8 questions that we couldn't address with
9 information not available.

10 The rest of the radionuclides we've given the
11 term "exotic radionuclides." There's a whole
12 variety of them. Appendix 2 of the evaluation
13 report contains a spreadsheet that details
14 production of these radionuclides. We did find
15 that that spreadsheet is not -- doesn't contain
16 the full account of production and so at least
17 some of these radionuclides we were able to
18 verify that -- various sources -- as is
19 described in the report. Again, here NIOSH has
20 stated two workers were involved in that
21 incident and external monitoring data would be
22 available to reconstruct dose, and -- and we
23 think if that is the case that there may not be
24 an issue then, but we haven't been able to
25 examine them.

1 There was a gallium dose reconstruction example
2 given, but it was from an accident in 1968 and
3 doesn't fall in the SEC period. We don't know
4 what -- we can't determine what the relevance
5 is to the exotic radionuclides for the SEC
6 period, so we consider this still to be an open
7 issue.

8 Last slide is just to give you an idea -- it
9 just -- I coordinated this and brought -- there
10 were a lot of people involved in its
11 production. Sorry, Bob Anigstein has a Ph.D.
12 I forgot to put that in after his name. Other
13 than myself, Kathy DeMers, Hans Behling, Mike
14 Thorne, Harry Chemylnski and Bob Anigstein
15 helped prepare the report and Dr. Mauro and Ron
16 Buchanan reviewed it.

17 I'd be happy to take your questions.

18 **DR. WADE:** Thank you, Arjun. We have an
19 opportunity for questions from Board members
20 for Arjun. Any questions? Dr. Lockey, any
21 questions?

22 **DR. LOCKEY:** No, not at this time.

23 **DR. WADE:** Okay. Arjun, thank you. Stay
24 close.

25 **DR. MAKHIJANI:** I'm easily off the hook here.

1 **DR. WADE:** Don't go far away, though.

2 **MS. MUNN:** Probably not. Don't be over-
3 confident.

4 **PRESENTATION BY NIOSH, DR. JAMES NETON, NIOSH**

5 **DR. WADE:** And now we'll move into the formal
6 part of the agenda that was set for Y-12 SEC,
7 and that is the presentation of the petition
8 evaluation report by NIOSH, and that will be
9 done by Dr. James Neton.

10 **DR. NETON:** Thank you, Dr. Wade. I'm not quite
11 sure where to begin here after that rousing
12 presentation by Arjun on our work. I'm glad
13 that he did represent this as somewhat hastily
14 prepared and did come about at the last minute.
15 We've had a couple of looks at their report and
16 my formal presentation here is not set up to
17 respond to this because as of -- I received the
18 last draft half an hour before I was headed for
19 the airport on Monday, so one can imagine that
20 we've not had time to -- to review all of this
21 in its entirety. However, I would -- I would
22 just like to state for the record that we do
23 find that there are -- are several
24 misunderstandings and misinterpretations in the
25 report as portrayed, and we certainly would

1 welcome the opportunity to discuss them with --
2 with the SC&A folks -- in several major areas,
3 I might add. I'm not going to go into them at
4 this point, but I'd just like to state that for
5 the record.

6 I'm here to address our normal presentation for
7 the evaluation of a petition, which in this
8 case is SEC petition number 28, and that is for
9 the Y-12 Plant.

10 The petition was submitted under Part 83.13 of
11 our SEC regulations. It was submitted to NIOSH
12 on behalf of a class of employees with the
13 initial definition of all steamfitters, pipe
14 fitters and plumbers who worked at Y-12 from
15 October of 1944 through December of 1957.

16 NIOSH -- in doing these evaluations we like to
17 take a bigger bite of the apple if we can and
18 take the opportunity to look on a broader
19 scale, as long as we're going into the weeds on
20 a lot of these issues, so we expand our
21 evaluation to include a class bigger than that,
22 which would be all workers who worked at the
23 facility between 1948 and '57. The discrepancy
24 in the first four years is because of course
25 the Y-12 SEC has already been granted for the

1 years up through the end of 1947 under previous
2 deliberations.

3 A little bit about the Y-12 operations in this
4 SEC evaluation period. For the most part, Y-12
5 was heavily involved in machining, production
6 and forming of uranium, and that is by far and
7 away the largest potential source of exposures,
8 but there were other ancillary activities that
9 occurred on the site as alluded to by Arjun's
10 presentation. There was an 86-inch Cyclotron
11 that was there that they did produce these
12 exotic -- so-called exotic radionuclides. The
13 Calutrons were there, which we have discussed
14 in previous SEC petition evaluations. And even
15 though the Calutrons were formally shut down
16 for production of uranium at the end of the
17 previous SEC period, their use in fact
18 continued for various other miscellaneous
19 purposes up through the end of this evaluation
20 period, and I'll talk a little bit about that
21 later.

22 In addition to that -- the Cyclotron/Calutron
23 activities -- there were thorium activities
24 ongoing at the site, and we have very good
25 evidence that thorium was present at the site

1 from 19-- all the way from 1948 through 1957 in
2 increasing quantities throughout the exposure
3 period. However, just to comment a little bit
4 on Arjun's emphasis on the quantity, the bulk
5 of the quantities of the thorium that were
6 disposed of in the waste pits did not happen
7 until I think it was 19-- 1957 period. And we
8 have very good evidence of where -- we believe
9 -- the health physics reports are aware those
10 processes were ongoing and in fact those are
11 included -- those buildings are included in our
12 evaluation.

13 Another side comment -- I can't resist to
14 comment slightly -- is the X-10 facility where
15 the burial grounds were, to my knowledge, are
16 not on the Y-12 facility property so therefore
17 could not formally be considered as part of
18 this SEC petition.

19 In addition to thorium activities there were
20 critical experiments facilities. There was a
21 remote area of Y-12 that was set up to do
22 criticality experiments. You can imagine it
23 should be in a remote area that was somewhat
24 isolated. They did critical and subcritical
25 experimentations.

1 Okay, a little bit of the nuts and bolts of how
2 this process goes. The Board should be fairly
3 familiar with this so I've summarized what used
4 to be three or four slides down into one.
5 We've met -- the petition met the criteria
6 outlined in our regulation on April 29th. The
7 petitioner was notified and a notice was
8 published in the *Federal Register* on June 6th,
9 and the report -- evaluation report was
10 prepared and sent to petitioners and the Board
11 on April 7th and posted on our web site. And
12 there was a *Federal Register* notice published
13 that this petition evaluation report would be
14 discussed at this meeting on April 19th.
15 Again the slide that should be all familiar to
16 you now, the two-part process. Can we estimate
17 doses of radiation with sufficient accuracy;
18 and if we cannot, was there health endangerment
19 involving this class.

20 Okay. There were a number of ongoing
21 activities to evaluate this petition, and
22 several are new. We -- this is the first time
23 we have worked with -- very closely with the
24 Advisory Board working group and SC&A to review
25 originally the site profile, but in the later

1 months, towards the February time frame, we've
2 been very heavily involved in reviewing the
3 site profile in the context of how it played
4 out for SEC petition.

5 As usual, though, we are -- we went about our
6 business and identified and reviewed data
7 resources that we could use to determine
8 availability of the information and feasibility
9 of dose reconstruction. And in that way we
10 looked at personnel monitoring, area
11 monitoring, testing processes, radiation
12 sources -- the usual types of information that
13 we would look for to see that we could
14 establish some type of a plausible upper bound
15 on doses for this -- received by this class.
16 Again, we're not trying to -- to reconstruct
17 dose reconstruction down to the nth degree;
18 we're trying to determine do we have sufficient
19 information to plausibly bound exposures for
20 members of this class.

21 We reviewed the data for credibility and
22 reliability. We have been doing that to some
23 extent, but now it is more formally documented
24 because of the new Board operating procedures,
25 and we certainly are attempting to conform to

1 that in every way possible. And again we
2 prepared example dose reconstructions for some
3 specific scenarios that were somewhat mutually
4 agreed upon between all of us working on this -
5 - that is the Advisory Board working group,
6 SC&A and NIOSH. I'd like to discuss a little
7 bit about each of those in turn here.
8 The site profile and SEC review discussions I
9 might say were tremendously informative and a
10 very interesting scientific exchange. I mean
11 we -- they become somewhat frustrating and
12 wearying at times because we had a lot of -- a
13 lot of discussions. The working group was
14 established in October of 2005. By my count of
15 our -- our web site, we had five working group
16 meetings, but I think that the SC&A report
17 indicates there were more than that. I
18 certainly would buy that. It was a -- there
19 were many, many hours and there will be
20 hundreds of pages of transcripts prepared as a
21 result of our deliberations, and I think the
22 science is much better -- better off for it. I
23 think it was a good process.
24 As I mentioned, the focus shifted, though, in
25 February from the profile review to very

1 specifically fine-tuned, as Mark talked about,
2 matrix that was relevant only to SEC issues and
3 I think to a large extent we -- we pared down
4 that matrix to -- down to a few items, at
5 which point the matrix was labeled NIOSH is
6 going to provide their final analysis in their
7 evaluation report, which I believe we did.
8 Again, the SC&A draft review came out April
9 19th and we received the final -- I don't know
10 if it's the final yet, but we received another
11 version as of Monday.
12 The resources available -- this was touched on
13 somewhat in Arjun's presentation, but we do
14 always look at the NIOSH case file database,
15 so-called the NOCTS system, the NIOSH/OCAS
16 Claims Tracking System. There we have a pretty
17 rich amount of information from the claimants'
18 submittals, the Computer Assisted Telephone
19 Interview, anything that's in there that can
20 help inform us as to what occurred at the site
21 and what type of potential exposures were
22 there. We also delved very deeply into the
23 NIOSH and ORAU research databases. I think the
24 Board is very well aware of our ongoing site
25 research activities and we relied heavily on

1 the information in them for reconstructing or
2 for -- looking for information that could help
3 us reconstruct doses.

4 We also developed a large number of technical
5 documents from those primary resources, and
6 I'll talk a little bit about those in turn, as
7 well. This is probably the most well-
8 documented site that NIOSH has written about,
9 to the point where I -- I think we're
10 approaching 1,000 pages of writing. That could
11 be a slight exaggeration, but certainly well
12 into the upper hundreds of pages of site
13 profiles, technical reports and such. And all
14 of us on the working group and NIOSH and SC&A
15 have -- have read almost all of it more than
16 once.

17 The ORAU Center for Epidemiological Research
18 database is a valuable resource for us. This
19 is a database that ORAU has available to them.
20 It is an electronic copy of the electronic
21 database at Y-12. In other words, it's not a
22 database that was -- was created for purposes
23 of epidemiologic study. It was the database
24 that the DOE maintained and this is an -- to
25 the best of our knowledge, a duplicate copy of

1 that database.

2 We also did interviews with site personnel
3 where it was relevant to certain issues that we
4 needed to have answered. And of course we
5 always look at the documentation or affidavits
6 provided by the petitioners.

7 A little bit about what's in NOCTS, we have
8 1,303 cases that meet the class definition in
9 the system right now, or potentially meet that
10 definition. Of those, 309 have internal
11 monitoring records, 106 have external
12 monitoring records. We don't have a full -- a
13 full complement of external and internal
14 monitoring records for Y-12; there are some
15 gaps, but we have developed coworker models
16 that we could talk about later to fill in those
17 gaps.

18 As far as the research database resources
19 available, there are almost 500 Y-12-specific
20 documents out there.

21 **DR. MELIUS:** Can I ask you a quick question?
22 I'm a little confused by the numbers there.
23 Which class definition are you referring to?

24 **DR. NETON:** This is the proposed class
25 definition.

1 **DR. MELIUS:** So those would be --

2 **DR. NETON:** They're all -- all employees
3 between the two dates, 1948 to '57.

4 **DR. MELIUS:** Oh, okay, so the petition, not
5 your proposed --

6 **DR. NETON:** That's correct.

7 **DR. MELIUS:** Okay. Okay, I didn't --

8 **DR. NETON:** Well, this -- not -- not the -- not
9 the petition's classification but the proposed
10 class definition by NIOSH, which is all workers
11 between 1948 and 1957.

12 **DR. WADE:** clear, Jim? You make no mention of
13 thorium in your comment.

14 **DR. NETON:** Pardon?

15 **DR. WADE:** You made no mention of thorium in
16 your definition.

17 **DR. NETON:** I'm sorry, I'll be getting there,
18 but it will --

19 **MR. GRIFFON:** But this doesn't -- this doesn't
20 --

21 **DR. NETON:** No, this is the evaluation of the
22 peti-- the class under evaluation is all
23 workers --

24 **DR. MELIUS:** Yeah, exactly. I think that's --

25 **DR. NETON:** Yeah, we -- we don't know a priori

1 who would have worked with thorium, and that
2 may be something we want to talk about a little
3 later. We know which buildings the thorium --

4 **DR. MELIUS:** Yeah.

5 **DR. NETON:** This would be all workers. So the
6 database had almost 500 Y-12-specific documents
7 and in that database was a fairly rich
8 collection of health physics reports that were
9 by quarter. Or actually they were sometimes by
10 month, but eventually they became semi-annual,
11 and these reports persisted -- persist
12 throughout the SEC period, although I will have
13 to admit that several reports in the interim
14 periods, in the middle 1950s, we do not have on
15 the database. We have reviewed them and looked
16 through them, but they have yet to -- they're
17 not classified necessarily, but they have not
18 gone under classification review. We have no
19 expectation that most of we will need is not
20 classified, but I can't speak to that. But we
21 have had people with clearances go in there and
22 look through these -- these documents. There's
23 also air sample data in there, bioassay
24 samples, description -- process description, et
25 cetera.

1 I mentioned about the volume of original
2 writing that NIOSH, with ORAU's assistance, has
3 put together, and these just list the Technical
4 Basis Documents, the six chapters that make up
5 the site profile for Y-12 and the dates that
6 they were created. It's -- it represents
7 several hundred pages of written documentation.
8 And then in addition to that, as I mentioned,
9 this -- this site probably has more written on
10 it about the history of the monitoring programs
11 and how we would interpret those pieces of
12 information than any of the other sites. There
13 are Technical Information Bulletins related to
14 how we would adjust individual doses for --
15 from the external perspective. I think the
16 first three up there are all related to this.
17 There's a lot of effort put into backwards
18 extrapolation into the pre-1956 period when we
19 had a paucity of monitoring data. These are
20 very well-defined documents and I -- I do
21 believe this is one area, a big area, where
22 there is a misunderstanding between us and SC&A
23 as to exactly what we've done and what the
24 relevance of some of their statistical analysis
25 might be. I firmly believe that they have --

1 we -- we should talk more about the
2 interpretations on those data.
3 There's also documentation on what was
4 available for the electronic personnel data and
5 the historical validation of the film badge
6 dosimetry program. A lot of work went into
7 looking at the quality of the measurements and
8 what usefulness they might be. For example, we
9 are not proposing to use any data before 1956
10 in any dose reconstructions from the external
11 dosimetry perspective. Contrary to the fact
12 that there may be some issues, we have
13 developed a backward extrapolation model that
14 relies on a sampling of 147 workers who were
15 heavily monitored in those periods and -- and a
16 backwards linear extrapolation procedure that
17 is part of these Bayesian analyses.
18 And there's several more here. Again, these
19 are related to the external radiation program.
20 There are a few out there that are draft I
21 haven't included here related to neutron
22 monitoring and other.
23 Let's talk a little bit about the Center for
24 Epidemiologic Research database. This is a
25 database that has literally hundreds of

1 thousands of records. Of course I can only
2 speak, for this presentation, for the records
3 in the SEC period -- or I should speak to
4 those, starting in 1948, and I've included a
5 little bit of overlap into the non-SEC period
6 because of the fact we did rely on some of
7 those results for our coworker models going
8 back into the 19-- you know, before 1956.
9 As with most sites, you see an increasing
10 number of records as you become closer in time
11 to the current period. The number of
12 individuals monitored was fairly low in 1950
13 through -- well, the first four years there,
14 '51, 2, 3, 4, and you see a lot more records
15 starting to come into play. We have a fairly
16 well-defined coworker model for internal dose
17 based on those monitoring records, and in fact
18 the '48 and '49 where we have no records, we
19 actually have used the data from the 1952
20 period where we had -- I can't read it from
21 here very well, but -- 13,000 records and
22 assumed that all the exposures in those people
23 of 1952 were related to their work practices in
24 1948 and '49, an extremely generous assumption
25 on our part.

1 The only question that remained, and our
2 discussion with SC&A on this, was did in fact
3 Y-12 fire everybody in 1949 and we couldn't use
4 those 1952 records. In fact, were the 1952
5 workers relevant to the exposures that occurred
6 in 1948 and '49, and I thought our conclusion
7 was on the phone that it was an unlikely
8 scenario, but maybe we should go back and
9 document that a little bit. That was my
10 understanding of our discussion, somewhat
11 different than what was portrayed on SC&A's.
12 External monitoring data, again, very few
13 numbers of people monitored through 1956,
14 increasing numbers as you come later. And
15 again, we're not using any of those values
16 prior to 1956 for dose reconstruction. Based
17 on our analyses of -- of those datasets, they
18 do not really fit any distribution well at all,
19 which is why we went to the backwards
20 extrapolation approach from the data after
21 1956.

22 Just a little bit about the delta view
23 monitoring set. This is a database of in
24 excess of 400,000 pages of information that Y-
25 12 has maintained. It's not a database in the

1 sense that it's -- it's number values like in
2 an Excel spreadsheet or something. It is
3 actually image pages. So there are in excess
4 of 400,000 image pages that contain a lot of
5 information, including incident investigation
6 reports, bioassay records, that sort of thing.
7 In the time we had available while we were
8 working with SC&A on this issue, we managed to
9 pull out some records relevant to plutonium
10 exposures that you see on the screen there in
11 1952 through 1956. We propose to use those as
12 part of our coworker model. And in fact, we
13 provided a sample dose reconstruction using a
14 coworker approach to SC&A. I'm not sure
15 they've read it, but we have provided a model.
16 A proposed model is out there.
17 Not much thorium monitoring, as you can see in
18 that bottom line, until '58 where believe that
19 the major production activities were initiated.
20 As indicated, we did some data reliability
21 checks on the electronic database. We did have
22 an indication from -- we heard -- we heard
23 reports from interviewees and such and others
24 that had worked at the site that the database -
25 - the electronic database was considered to be

1 the dose of record for the workers, and we did
2 manage to go get a secondary reference that --
3 that -- it did indicate that.

4 There was -- I should point out, there was no
5 assertion as to reliability of the data made in
6 the petition. This was not one of the
7 arguments made in the petition. But of course
8 we do recognize that it's prudent for us to go
9 back and look at the data, take a -- take a
10 check and see if it does pass the
11 reasonableness test. So where possible we did
12 compare results to the separate data sources,
13 and this is a very difficult issue. I mean for
14 50-year-old records, to go back and -- and to
15 find original records is extremely difficult.
16 I was very happy that we found the record we
17 could, particularly in the internal area. So
18 we went back and looked at the health physics
19 reports, the delta view database, and we did
20 find some electronic -- you know, the old IBM
21 80-column keypunch cards that had data written
22 on top that we could read and -- and helped
23 also to validate our -- the reliability of the
24 database.

25 In the bioassay area we did look at individual

1 results in 1953 health physics reports which
2 pointed to workers. We heard about this
3 yesterday. They compared very well. We did
4 some percentile comparisons with a 1952 health
5 physics report where they provided indications
6 of the 70th percent-- 75th percentile, 90th,
7 95th percentile, those type of numbers, and we
8 went into the database in '52 for that period
9 and in fact the percentiles compared favorably
10 with what we had in the CER database.
11 We looked at samples that exceeded the maximum
12 permissible limit and -- it's not 19,552, but
13 1952 -- and those compare somewhat favorably.
14 There was a maximum value reported in a 1950
15 health physics report. We went back to CER
16 database and the maximum value in the database
17 for that year was indeed a match.
18 I will point out, though, that there was a
19 discrepancy in the total number of urinalyses
20 reported in the HP reports versus electronic
21 database. We did some investigation. We
22 interviewed people at the site who would have
23 been -- we thought were knowledgeable in
24 helping to elucidate why this would be the
25 case. It turns out that the HP reports tended

1 to include a lot of additional samples that
2 were not necessarily worker samples. There
3 were duplicates made, there were quality
4 control runs. There's some indication that
5 when they split a sample and ran it for -- the
6 fluorometric technique for mass versus the
7 alpha isotopic analysis, that those would be
8 double-reported. So there were a lot of
9 indications to explain or at least to help --
10 well, to help explain why there would be more
11 numbers -- total values of numbers in the HP
12 reports versus the database.

13 The external dosimetry comparison, as -- as
14 Arjun mentioned, was somewhat more difficult.
15 We could not find original records to any large
16 extent. And in fact, the 1953 delta view
17 report was there area where we could -- only
18 area where we could do a direct comparison, and
19 even that was a -- not completely direct
20 because these were summary data versus
21 individual. But in looking through those 1953
22 records we believe, and I think SC&A agreed,
23 that the records would compare favorably, given
24 the caveats we -- we had to put on them.
25 There were these discrepancies noted in 1950

1 and 1951. They certainly deserve to be
2 investigated. However, I don't think that the
3 data are invalid, as indicated in SC&A's report
4 that we received. I think there are some
5 pathways we need to go down. For example, in
6 looking at the example in the SC&A report it
7 appears to us that it -- we confirmed actually
8 yesterday that -- that those are act-- almost
9 all those except one -- all of those except one
10 are X-10 workers. Delta view database has some
11 carry-over from X-10 to Y-12, so we need to be
12 careful in interpreting the data that's
13 contained in the delta view.
14 Cyclotron activities, polonium-208 production
15 did start in 1951, ended August of '53, so it
16 was of fairly short duration in the -- process
17 in the history of the Y-12 site. And there
18 were chronic exposures. There were airborne
19 activities produced as a result of irradiation
20 of a bare target. As we'll discuss later, all
21 the -- almost all the other activities used
22 clad targets, but to the maximum output of the
23 polonium from the proton interaction, they had
24 to rely on bare target materials. But we do
25 have air sampling results in some of the health

1 physics reports that document the airborne
2 alpha concentrations in various rooms
3 associated with the Cyclotron, which we believe
4 we can use to help reconstruct those doses.
5 The other radioisotope production followed.
6 These are typically short half-life research-
7 type activity nuclides -- gallium-67,
8 promethium-147, those type of isotopes. The
9 targets were -- were clad, so when they were
10 irradiated in the Cyclotron they were
11 essentially in a sealed cladding, and when they
12 were pulled out of the Cyclotron they were
13 actually processed at the X-10 facility intact.
14 Now that's not to say there weren't exposures.
15 We know that there were incidents, and we did
16 provide one incident that we could find in the
17 time frame available -- outside the SEC period,
18 but we have numerous indications that when
19 incidents occurred that were as a result of
20 off-normal circumstances at the Cyclotrons,
21 they were evaluated and bioassay samples were
22 taken. In fact, these internal exposures
23 really only, we believe, occurred when the
24 target would rupture. There are a number of
25 site documents we believe we can use to capture

1 what happened in these incidents -- I think
2 I've got this on the next slide.
3 And these would include these five types of
4 documents: NIOSH case files -- in fact, I
5 think the gallium-67 accident, the bioassay
6 records were in the case file itself. I mean
7 we were looking through the files and -- and
8 there it was. And those records come directly
9 out of this delta view database, so we're very
10 comfortable with the fact that when we apply to
11 DOE or ask DOE to provide monitoring records,
12 they search the delta view database -- we know
13 this -- and provide us any -- they can do
14 searchable fields and find names of people
15 involved with incidents and provide them to us.
16 We've gone back and looked at the delta view
17 database that they searched under code word
18 "incidents". Right now we have indications
19 there are about 70 incident reports out there
20 in the SEC period in the delta view database
21 that we're trying to obtain. We've had folks
22 go over there with clearances and look through
23 these, but again, these -- these need to be
24 reviewed for classified material before they're
25 released.

1 In addition to delta view reports we have
2 internal memos, as well as production-related
3 documents.

4 Speak a little bit about the thorium
5 activities. There were quantities of thorium
6 present throughout the evaluation period, as I
7 had indicated, and these were in three distinct
8 types of operations. There were -- there were
9 memos in the files that indicated that enriched
10 uranium was cleaned up out of the Calutron
11 using thorium as a co-precipitating agent.
12 That's kind of an interesting process to use a
13 radioactive material to obtain radioactive
14 material, but that's in fact what the memo
15 states, so there were -- there were thorium
16 exposures from that avenue of -- of operations.
17 There were isotopic separations, and this is
18 where the thorium-230 exposures come in.
19 Thorium-230 was -- was selectively isolated --
20 (Interruption due to inadvertent activation of
21 voice mail on the telephone connection.
22 Throughout the remainder of Dr. Neton's
23 presentation the operator occasionally spoke to
24 a telephonic participant, often concurrent with
25 Dr. Neton's statements. Where indicated, it

1 rendered transcription of Dr. Neton's comments
2 impossible.)
3 Isotopic separations occurred in the Calutron
4 for a very specified period of time. We know
5 when they occurred. We know where they
6 occurred, so we believe we can -- we -- we know
7 which buildings this oper-- activity occurred.
8 And then there was what we call the pilot scale
9 research and development operations where they
10 were gearing up to do mass quantities of
11 thorium production in the late 1950s starting,
12 we believe, no earlier than 1958.
13 From those three operations we -- and we looked
14 through a number of these health physics
15 reports, and the health physics reports tend to
16 confirm that the operations occurred in the
17 following buildings, which we are proposing to
18 add to the class, and that's building 9202,
19 9204-1, 9204-3, 9206 and building 9212.
20 For these operations we have very limited air
21 monitoring data. I think we have some air
22 monitoring data for the Calutron operations and
23 we have no bioassay data for thorium for any
24 operations that occurred in this.
25 And we did provide nine example dose

1 reconstructions that are available on the back
2 table, and I hope in the Board packets, for
3 selected -- selected types of cases where we
4 believe, collectively among our group, that
5 they would shed some light on how NIOSH would
6 go about doing these dose reconstructions. I
7 won't read them all to you. They're there and
8 I'd certainly be happy to go over any of them
9 if the Board so desires.

10 So given -- given the data that we had
11 available to look at, we ended up with a
12 revised class definition that included all
13 employees of the DOE or DOE contractors or
14 subcontractors who were monitored or should
15 have been monitored for thorium in the
16 buildings that I just mentioned -- 9202, 9204-
17 1, 9204-3, 9206 and 9212 -- and there's the
18 usual proviso that it could be for the number
19 of work days aggregating 250 days through the
20 period, and that period is from January 1948
21 through December 1957.

22 So we did find evidence that there were sources
23 of internal exposures as a result of thorium
24 activities in those buildings listed, and we
25 lack sufficient bioassay or area monitoring

1 data to estimate these doses with the exposure
2 -- estimate the doses associated with exposures
3 in these buildings.

4 Since we couldn't put a plausible upper bound
5 on the thorium exposures, we made a
6 determination that health was endangered and --
7 in the buildings where thorium was handled in
8 those years, and that some workers in the class
9 may have accumulated internal exposure through
10 the episodic intake of thorium as a result of
11 processing activities. That is, we did not
12 find any evidence that there were discrete,
13 high level exposures of thorium such as one
14 might see in a criticality accident.

15 And this is a summary slide that shows the
16 various categories of doses that we believe we
17 can or cannot reconstruct. You can see the box
18 checked for internal exposure of thorium. We
19 do believe we can do internal exposure to
20 uranium. I don't think we said that we could
21 reconstruct doses to uranium workers. I think
22 we said that we could just reconstruct uranium
23 exposures, is what our concept was. But we
24 also believe that we can reconstruct exposures
25 to these other what I would call ancillary

1 operations, including the exotic radionuclides,
2 polonium-208, and we can reconstruct external
3 exposures to beta, gamma, neutron and
4 occupational medical exposures.

5 (Unintelligible due to operator interference)
6 140-page report, that was a walk-through. I
7 can certainly answer any questions at this
8 point.

9 **DR. WADE:** Do we have questions for Jim from
10 the Board? Dr. Melius.

11 **DR. MELIUS:** Yeah, I have a short statement and
12 a question. The statement is just -- back to
13 the beginning of your presentation, I would
14 just like to indicate I think that the Board
15 does appreciate all the hard work and fast-
16 approaching deadlines that both you and SC&A,
17 everybody really, and the workgroup involved
18 here undergoes. And we always know, no matter
19 what we do whenever we have a meeting, at the
20 last minute I'm going to be assured that we
21 will receive some document in our e-mail, you
22 know, ahead of time and -- and I think that,
23 you know, that's part of the process and I
24 think we -- we understand that there's not time
25 to reconcile a lot of these -- these issues yet

1 and I -- I think we sort of understand also
2 that timeliness is important. It's helpful to
3 have information and that somebody's going to
4 be last to get it to us before any meeting and
5 so forth, so I think that's -- that's
6 understood.

7 My question goes back to something you
8 mentioned, which is the thorium definition --
9 or thorium worker definition. And given what
10 Mr. Turcic said earlier and so forth and some
11 of our other discussions, I think that we need
12 to think a little bit about how we are going to
13 define that or make that operational, should we
14 approve that part of the . Whether to do it by
15 building or some other way, I don't know, but -
16 - so my question is have you given any thought
17 to -- to that. One point you referred to it as
18 -- as by building in your slide --

19 **DR. NETON:** Well, what I --

20 **DR. MELIUS:** -- and at another point we talk
21 about it as thorium workers, you know.

22 **DR. NETON:** Yes. What I -- what I meant to
23 portray here is that we believe that people who
24 were engaged in thorium activities in those
25 buildings, and by that we would say people who

1 were monitored or should have been monitored
2 for thorium exposure in those buildings. It
3 doesn't mean they couldn't have been uranium
4 workers. For example, SC&A has done a nice
5 analysis demonstrating that you could receive,
6 for lack of a better term, side-stream exposure
7 to thorium while working on a uranium process
8 in those buildings. If that were true, then
9 those workers should have been monitored for
10 thorium and, in my opinion, would be covered
11 under the provisions of this class.

12 **DR. WADE:** Yeah, but --

13 **DR. NETON:** The Department of Labor, though,
14 ultimately will -- will decide the way in which
15 they determine eligibility.

16 **MR. GRIFFON:** Jim, I -- I think that there's a
17 question even in that definition 'cause earlier
18 today you mentioned using the monitored or
19 should have been monitored as we do in the
20 current sense, and if we do that as in the
21 current sense, it isn't radionuclide-specific
22 but rather it's -- it's based on your -- your
23 potential to receive --

24 **DR. NETON:** Well --

25 **MR. GRIFFON:** -- 100 millirem.

1 **DR. NETON:** -- let me -- let me --

2 **MR. GRIFFON:** Okay. That needs a clarification
3 there.

4 **DR. NETON:** -- clarify.

5 **MR. GRIFFON:** And is it going to be consistent
6 with your previous...

7 **DR. NETON:** Yes, it's consistent with my
8 previous statement. I didn't mean to take it
9 to the full degree, which is 100 millirem
10 potential from all radionuclides present at the
11 facility. I would say that if it was 100
12 millirem potential exposure to thorium, in this
13 instance, that's what I would consider should
14 have been monitored.

15 **MR. GRIFFON:** That -- that's inconsistent with
16 the current regulations -- as I interpret them,
17 anyway.

18 **DR. NETON:** I understand that. What I meant to
19 say was 100 millirem threshold, and I didn't
20 mean to imply that it was from all potential
21 sources. It wouldn't make sense in this
22 context --

23 **MR. GRIFFON:** No, no, that's --

24 **DR. NETON:** -- for me to say all --

25 **MR. GRIFFON:** -- that's why I'm asking.

1 **DR. NETON:** Okay, and I appreciate that
2 clarification. That's not what I intended. I
3 meant the 100 millirem monitoring threshold in
4 this case would apply to the radionuclide which
5 -- that we can't reconstruct.

6 **DR. MELIUS:** Yeah, but then that -- still back
7 to my original question. How -- can you
8 identify those -- those people? Can you go
9 through that 1,300 people or whatever that have
10 -- were part of the -- you know, sort of the
11 potential people that could have been included
12 in the petition based on years of work at that
13 facility and identify those that were -- would
14 fit your definition?

15 **DR. NETON:** We certainly would be willing to
16 stand by Department of Labor and assist them in
17 making that determination. We do have access
18 to department -- departments associated with
19 claims and workers. Much of that information
20 is included in their files. But again, we
21 don't make the determination. We do know that
22 these buildings were there, and this is not
23 very different than what Pete Turcic was
24 talking about at Blockson Chemical they're
25 required to determine who worked in building 55

1 where you heard the ultimate outcome of where
2 they ended up there. I'm not suggesting that
3 would be the outcome at Y-12, but it's up to
4 Department of Labor to determine can you put
5 these people in those buildings, and if not,
6 what's your recourse? And I can't speak to how
7 they would do that.

8 **DR. WADE:** For the record, Pete is not in the
9 room at the moment. I think someone went to
10 try and get him, but...

11 Other questions for Jim?

12 **DR. NETON:** Now I would -- I would say that we
13 did vet this definition with the Department of
14 Labor and -- and they did not have, at least in
15 the conversation in which I was involved, an
16 issue with this definition in itself.

17 **DR. WADE:** Any other questions from the Board
18 for Jim? Dr. Lockey, are you still with us?

19 **DR. LOCKEY:** I am with you. It's difficult to
20 hear the presentation. I -- I could pick up
21 bits and pieces of it, but it -- it's tough to
22 hear.

23 **DR. WADE:** Sorry. Do you have any questions,
24 based upon what you did hear?

25 **DR. LOCKEY:** No, not at this time.

1 **DR. WADE:** Okay.

2 **MR. GRIFFON:** I guess I should say, before I --
3 'cause I guess I'm next, but I should say, Jim,
4 that on the workgroup calls, and I was going to
5 bring this up anyway, that we had a fair amount
6 of discussion about the -- the potential and
7 the thorium workers, and I -- I guess from my
8 perspective it was more of a question of did we
9 -- did -- does -- is NIOSH giving DOL enough
10 information to determ-- to adequat-- to
11 adequately identify people who fit the class.
12 And if -- if they -- certainly they can
13 probably figure out buildings -- maybe they can
14 figure out if they were in those buildings, but
15 then how do you determine if they were, you
16 know, potentially -- now I -- I still have some
17 issues with this monitored or unmonitored with
18 regard to exposure to thorium 'cause I think
19 that that's a harder question, 100 millirems to
20 thorium versus today's standard, but that's --
21 that's -- aside from that, how do you determine
22 if someone was exposed to thorium in that
23 building or was just in that building working
24 on uranium operations, you know?

25 **DR. NETON:** Well, I can't speak for the

1 Department of Labor --

2 **MR. GRIFFON:** No, I know.

3 **DR. NETON:** -- but you've heard examples --

4 **MR. GRIFFON:** But I'm saying --

5 **DR. NETON:** -- that they apply and I can speak
6 to those, that --

7 **MR. GRIFFON:** I understand, but I guess the
8 discussions we're having on the workgroup is --
9 is -- you know, does -- I think -- you know,
10 DOL needs enough information to make this thing
11 -- you know, to be able to implement it, and if
12 NIOSH doesn't give enough information, then --
13 then there -- you know, I -- I guess --

14 **DR. NETON:** I think you've heard ample
15 evidence, though, from the Department of Labor
16 that where the information can't be determined,
17 they -- they seem to make very conservative
18 decisions.

19 **DR. WADE:** We need to --

20 **DR. NETON:** But I --

21 **DR. WADE:** We need to get Pete in the room, and
22 what I'm going to do, we'll take a couple more
23 questions, then we'll take a break with the
24 attempt to be to try and reconvene with Pete
25 with us and then he can provide direct

1 testimony as to the -- the issues.

2 Wanda?

3 **MS. MUNN:** Not a question so much as a
4 statement. We have a great deal of concern
5 expressed from a number of areas about numerous
6 different nuclides, and certainly a lot of talk
7 about thorium. But the real question that
8 probably should be kept in everyone's mind is
9 not whether it was there, it whether the
10 quantities were adequate to be significant in
11 dose reconstructions and in terms of effect to
12 the petitioners. That's -- that's something
13 that I don't think, given what I believe the
14 data is right now, probably can be defined very
15 clearly. But the question, again, is not
16 necessarily was it there. We know it's there.
17 The question is was the quantity -- was the
18 potential exposure significant.

19 **DR. NETON:** I think we do believe that the
20 exposure potential was significant. It -- it
21 takes a -- more uranium -- more thorium than
22 uranium to get -- to get a dose, but it's on
23 the order of milligrams. We're not talking
24 about mass quantities. And given what we know
25 about source term quantities here, it's our

1 opinion that it was definitely possible to get
2 enough thorium airborne to -- to endanger the
3 health of the workers in those buildings.

4 **MS. MUNN:** And you know the form it was in.

5 **DR. NETON:** Pardon?

6 **MS. MUNN:** And you know the form.

7 **DR. NETON:** To a large extent, yes --

8 **MS. MUNN:** To a large extent.

9 **DR. NETON:** -- we know what they were doing.

10 **DR. WADE:** Jim?

11 **DR. MELIUS:** Yeah, and I think that's precisely
12 why it's important that we really understand
13 how that definition of a class becomes
14 operational because we want to make sure that
15 what we're approving -- what we're recommending
16 to the Secretary is -- you know, fits both the
17 definition of endangerment and cannot -- not
18 feasible to reconstruct their dose. So I -- I
19 think we have to understand -- make sure we
20 understand who we are including in the cohort
21 and how that's going to be implemented, and
22 that's why I think we need to -- this
23 discussion.

24 **DR. WADE:** Okay. So with your permission,
25 particularly, Mark, I would suggest we break

1 for let's say 10 minutes, and during that time
2 the Chair will try and find Pete Turcic and see
3 that he's in the room, and then we'll come back
4 and begin with the report from the working
5 group that will lead into Board discussion.
6 Thank you.

7 (Whereupon, a recess was taken from 3:15 p.m.
8 to 3:30 p.m.)

9 **DR. WADE:** Dr. Lockey, are you with us?

10 **DR. LOCKEY:** Yes, I am.

11 **DR. WADE:** Well, we have our seven back and --

12 **MR. PRESLEY:** I'm here, also, Dr. Wade.

13 **DR. WADE:** And that is?

14 **MR. PRESLEY:** Bob Presley.

15 **DR. WADE:** Okay, you're -- and we appreciate
16 your being here as a member of the public.
17 Thank you.

18 One of the things I neglected to do on the
19 agenda was to leave time for petitioners to
20 comment. I'd like to inquire whether the
21 petitioners, Mr. and Mrs. Hall, are on the line
22 and would like to make a comment. Is there
23 anyone representing the petitioners present?

24 (No responses)

25 Is there anyone in the audience who has comment

1 to make that they might think relevant to the
2 petition? Richard.

3 **MR. MILLER:** Hello? Does this work okay?

4 **DR. WADE:** No.

5 **MR. MILLER:** No, not at all.

6 **DR. WADE:** No.

7 **MR. MILLER:** My name's Richard Miller. I was
8 contacted by the Atomic Trades and Labor
9 Council, who has an interest in the Special
10 Exposure Cohort petition, obviously because
11 they represent people at the Y-12 and X-10
12 facility. Ken Cook, who is the president of
13 the Atomic Trades and Labor Council, had wanted
14 to send one of his former members to this
15 meeting, an elderly gentleman named Joe
16 Wallace, W-a-l-l-a-c-e, who's an insulator and
17 -- but on such short notice he couldn't arrange
18 to be here.

19 Nonetheless, the issue that they wanted raised,
20 and I think what Mr. Wallace would have raised
21 based on my telephone conversation with him,
22 was as follows, and it is very brief. But it
23 speaks to the question of class definition and
24 some of the issues that have been raised
25 regarding whether one should have an element or

1 isotope-specific class definition.

2 (Unintelligible interruption by a telephone
3 participant.)

4 **MR. MILLER:** Mr. Wallace worked at Y-12 from
5 1955 to 1987 and he was an insulator. He said
6 that he worked in the entire area, and he said
7 there was not a crack or crevice that he did
8 not get into in the course of his work.

9 I asked him about the class definition, and I
10 said did you know, in your years of work there,
11 if you or the plant were involved with
12 processing of thorium, and he said no, I never
13 heard the word pronounced. We nev-- he nev--
14 he said he never knew whether he would have had
15 to have been monitored for thorium or not. All
16 he said is that the terms he knew were we were
17 either exposed to radiation or we had to be
18 concerned about beta or gamma and that sort of
19 thing, but he had never heard of the word
20 thorium being used in the context of his work
21 there from 1955 forward.

22 He also said with respect to his radiation
23 dosimetry history -- and I want to point out
24 here that Mr. Wallace has already been
25 compensated under this program, so he is not

1 someone who would necessarily benefit from this
2 petition. He said that he did not get a dose
3 badge when he first went to work there as an
4 insulator, and he -- when he started in the
5 '50s. He said that tended to pick up more in
6 the '60s. And I asked him about his
7 participation in the bioassay program, and he
8 said that in terms of seeking bioassays, he
9 really thought his urinalysis began when the
10 lithium enrichment process began, which would
11 have been for mercury, and that that was when
12 he thought he began actually in the '60s in
13 bioassay.

14 He also spoke about the question of building-
15 specific, would you be in a position that if
16 you went from building to building doing your
17 job, would you have had to create any record
18 that you worked in say building 9206 or another
19 building. And he said that once you went
20 through the perimeter security, you went into
21 the buildings where, as he said here, where he
22 needed to go, without signing or getting any
23 special clearance. So for -- there was no pass
24 card. There was no record he went in and out
25 of the buildings. Given that, it's going to

1 have real difficulty in establishing, if he --
2 if he were a class representative, how he could
3 have been exposed to thorium in a particular
4 building and be able to identify his work
5 history as having been in that building.
6 He also pointed out that one badge served as a
7 security pass for everything on the site --

8 **MR. PRESLEY:** Hello?

9 **MR. MILLER:** -- when he worked there, and he
10 had what's called a --

11 **MR. PRESLEY:** Hey, John?

12 **MR. MILLER:** -- badge, and he said not until
13 the early '60s --

14 **MR. PRESLEY:** Can you hear?

15 **MR. MILLER:** -- they had one special --

16 **DR. LOCKEY:** I can't hear anything.

17 **MR. MILLER:** -- they called the --

18 **DR. LOCKEY:** Lockey.

19 **MR. PRESLEY:** Hey, Jim?

20 **DR. LOCKEY:** Yeah.

21 **MS. MUNN:** They can't hear.

22 **MR. PRESLEY:** See if I can get somebody -- I
23 don't know what's going on.

24 **DR. LOCKEY:** I can't hear a thing.

25 **MS. MUNN:** Hold on, it's probably the mike.

1 We're trying.

2 **MR. MILLER:** I'll try to speak up here. He
3 said that not until the early '60s did he have
4 to show a badge at what was called Beta 4
5 building. So I guess --

6 **DR. LOCKEY:** It sounds like they dropped off
7 the face of the earth.

8 **DR. WADE:** Okay, finish your comment, Richard.
9 We'll have to --

10 **MR. MILLER:** So having said that, I think that
11 was all he was going to add, but that the
12 question arises as to whether to have a
13 process-specific class -- this would be my --
14 sort of my comment on it would be that -- or
15 whether to have a building-specific class is
16 one of the questions before you. And it just
17 would seem from Mr. Wallace's experience that a
18 building-specific one would be better than an
19 element-specific one, but that even he would
20 have great difficulty in this class ever
21 establishing which building he was in or not in
22 as an insulator.

23 **DR. WADE:** Okay, thank you. Pete Turcic is
24 with us now. I don't know if the Board has any
25 questions for Pete. When we concluded, Pete,

1 they were starting to form questions for you,
2 and I don't know if we want to question Pete
3 now or hear the working group's report.

4 Okay. So questions for Pete --

5 **MR. PRESLEY:** Hey, Lew?

6 **DR. WADE:** Yes.

7 **MR. PRESLEY:** Can y'all turn the mike up or
8 something? We can't hear a thing.

9 **DR. WADE:** Okay, I'll ask -- is that any
10 better?

11 **MR. PRESLEY:** That's a whole lot better. Thank
12 you.

13 **DR. WADE:** I'd ask all of us to speak very
14 close to the mike.

15 **DR. MELIUS:** Yeah, the questions revolved
16 around the issue of the potential class
17 definition for this Y-12 SEC, and the questions
18 -- is would we be better with a definition now
19 as sort of thorium -- monitored for thorium or
20 should have been monitored for thorium versus
21 something else that would -- might be based on
22 building or some other type of designation?

23 **MR. TURCIC:** What -- in practice, as I was, you
24 know, explaining earlier, the way it's written
25 now it would in fact become a building-specific

1 class.

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

3 **MR. TURCIC:** The issue -- you know, as opposed
4 to a function class, so you know, from that
5 standpoint I'm not sure what the word -- you
6 know, by adding or including thorium in the
7 definition adds, you know, to the process. I
8 mean that is the reason for the -- for the
9 class and in our -- you know, the rationale,
10 and so then by identifying the buildings where
11 the thorium was present, that's how we would
12 then operationalize that. And then relative to
13 the issue on monitoring, all we would be able
14 to do is apply -- you know, occupations under
15 the current -- what would have internal
16 monitoring.

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

18 **MR. TURCIC:** And based on that, then basically
19 what that would do is if someone was there for,
20 you know, a short period of time, that may
21 exclude them. But if someone was in that
22 building, our interpretation -- you know, and
23 assigned to that buil-- routinely assigned to
24 that building, our interpretation would be that
25 they should have been monitored, and so with

1 monitored or should have been monitored for
2 exposures to ra-- to thorium, you -- you're
3 really dropping that "for exposures to thorium"
4 part of the -- in your practical application of
5 this --

6 **MR. TURCIC:** Yeah.

7 **MR. GRIFFON:** -- you would just be saying we're
8 looking at these buildings and determining
9 whether they mon-- were monitored --

10 **MR. TURCIC:** Right.

11 **MR. GRIFFON:** -- or should have been monitored
12 under the current standards.

13 **MR. TURCIC:** Exactly. Exactly.

14 **DR. WADE:** You'd be looking for people who
15 worked in those buildings.

16 **MR. TURCIC:** That's correct, uh-huh.

17 **DR. WADE:** Okay. That's -- that's most
18 informative. Thank you.

19 **DR. LOCKEY:** I have one other question.

20 **DR. WADE:** Surely.

21 **DR. LOCKEY:** If -- if in fact then -- if you
22 were assigned to work in that building, that's
23 understandable. What happens if in fact your
24 assignment was at another building but you had
25 access to the building?

1 the Board.

2 **MR. GRIFFON:** Yeah, I -- I just have a -- a
3 brief report on our workgroup activities to
4 date, and I'll try to not be repetitive from
5 what we've heard from Arjun and from Jim, but I
6 think -- mainly I want to kind of update on --
7 on some items that -- that came up during the
8 workgroup in certain major categories that we --
9 -- some of which we've discussed already. And
10 then at the end of this I want to kind of say,
11 from the workgroup's standpoint, what we see
12 remaining and -- and sort of discuss a path
13 forward on this.

14 So basic-- the one thing I want to emphasize on
15 the front end, as I saw Arjun and Jim present,
16 I do want to -- and I think others have
17 recognized this -- the time line, and that the
18 evaluation report that -- that was -- we -- we
19 received that on April 7th. We had been
20 working on the site profile for a while, but
21 really April 7th everybody was crunched, and
22 then we -- we had a workgroup meeting on April
23 11th, received new materials on April 14th,
24 17th, had another meeting on the 20th, and then
25 we're doing two drafts over the weekend in

1 preparation for this meeting. So you know, I
2 think that -- that we're -- we're close on a
3 number of issues, but I think in -- in some --
4 some statements had to be qualified 'cause
5 there was a sort of a rushed review on
6 everybody's part, so -- but I think the
7 workgroup made -- made great progress so far in
8 this.

9 First issue I wanted to discuss was -- was the
10 thorium question. Some of the -- some of these
11 things may have been already addressed by your
12 statements, the Department of Labor, but during
13 the discussion a couple of things were
14 mentioned during the workgroup meetings. One
15 was the question of these buildings, whether
16 these four in fact were the only four, and I
17 think we might have a little more work to
18 verify that. And -- but -- but I think we're
19 close. And again, the timing of this prevented
20 us maybe from coming to complete closure on
21 this. Jim did provide documents, but they were
22 -- they were posted on the O drive, you know,
23 maybe a week ago -- I'm not sure of the date on
24 that, but you know, it was recent. So SC&A
25 reviewed it, but we still I think need to

1 completely close that out.
2 Another discussion revolved around sort of the
3 where or how -- the quantity, and Arjun's
4 mentioned some things on that. I think we need
5 further investigation on that, further
6 clarification. Some of the waste -- I don't
7 think he was proposing that the burial grounds
8 at X-10 be included, it was just pointing out
9 that somehow that volume was generated and
10 where it came from was unclear. And if it in
11 fact was generated from Y-12 processes, then
12 the -- the magnitude of the quantities we're
13 discussing might be a little higher. So again,
14 that was -- I think that was the spirit with
15 which that was brought forward by SC&A.
16 We did during the workgroup calls have a -- a
17 good discussion about some data that exists.
18 There's -- there's finally some ledger data --
19 ledger records that have tracked the quanti--
20 quantities of -- of all these isotopes that --
21 that were received by the site. And Mel Chew
22 on the workgroup discussions went further than
23 that and said that actually for thorium he
24 believed that records existed that could show
25 the -- the allocation of the thorium into

1 various buildings. So that's another piece of
2 information we kind of recently heard.
3 Now he did also say that these records probably
4 existed -- at least within classified records;
5 I'm not sure if they were classified themselves
6 or within a -- within a volume of classified
7 records, but it might take some -- you know,
8 some time to retrieve, but they -- he -- he
9 believed fully that they existed.

10 Another point for consideration is that -- that
11 was brought out was that there was some limited
12 sampling -- I think Jim mentioned this. There
13 was some limited air sampling during the period
14 and my -- I think I'm correct on that, air
15 sampling -- and then post this period there was
16 some fecal monitoring for some workers for
17 thorium. I believe it was fecal, not -- not
18 urinalysis. So just another, you know, limited
19 -- certainly limited data with regard to doing
20 individual dose reconstructions, but there was
21 some pieces there. Nothing during the time
22 period in question, I don't believe, except
23 maybe some -- some limited air -- air sampling.
24 And then finally I think the fourth point we
25 discussed on the thorium was just the point

1 that -- that Pete addressed for us, which was
2 the concern about defining this -- this -- this
3 class definition. I won't go into that
4 anymore. I think we've discussed that quite a
5 bit.

6 The second big topic -- I think I got kind of
7 four big topics that -- that we discussed.
8 Data validation certainly, and it was -- Arjun
9 went -- had quite a few slides on this topic.
10 I -- I think it is worthwhile and -- and I -- I
11 started to list out all the pieces of
12 information that -- that NIOSH has gathered to
13 -- and we've been calling it check reliability
14 of the database for use, and again I'll say if
15 -- if -- for people who weren't here yesterday,
16 you know, it -- it becomes even more important
17 probably at Y-12 because probably 80 percent of
18 the workers do require coworker data to
19 reconstruct doses, so if in fact it -- it's
20 deemed unreliable, then we've got some
21 problems. So a reliability check was -- was, I
22 think, certainly worthwhile.

23 For external dose records, as was mentioned
24 earlier, and the -- the '51 raw data didn't
25 match. I think Jim now has -- has probably got

1 our answer for that, but as -- as -- at the
2 time of these reports over the weekend, we
3 didn't have that last bit of information, so
4 there might -- that might be resolved. They
5 did do some individual matches for 1953, and
6 they matched very well with the database. They
7 tracked several individuals and I -- I believe
8 they summed the weekly -- weekly badge data
9 together and -- and came up with the -- and it
10 -- and it matched pretty well with the report--
11 the reported amount in the CER database in
12 1953.

13 The last part was this question of internal
14 inconsistencies in the database, and even
15 though it's -- you know, it -- it's -- well,
16 there's two things there. One is, you know,
17 the -- the penetrating millirem field wasn't
18 adding up correctly with gamma plus neutron, as
19 Arjun said, for '52 to '55. It -- it raises
20 some -- some doubts of why that would have
21 happened. The -- the -- I guess the other
22 thing to -- to -- to point out is that the
23 model -- the coworker model relies on data
24 after that point. Right? So -- so it doesn't
25 necessarily affect the coworker model, but it

1 just -- just -- it just sort of raises some
2 questions of why that would happen and, you
3 know, could something else have happened or --
4 or, you know, are there other problems in this
5 database that we're just not able to take to
6 ground. That's -- that's kind of the question.
7 Now I -- I sort of listed these out 'cause I
8 think it's useful to see, you know, as Wanda's
9 raised yesterday and at previous times, you
10 know, just this question of how much is enough,
11 and I think we need to consider all these
12 things. And just 'cause one thing -- we still
13 have some questions on it, doesn't mean
14 necessarily -- says the database is invalid,
15 but you know, raises -- I think we need to take
16 it in aggregate and consider it.
17 On the internal side, I think -- and it -- I --
18 I think that the data to -- to this point is --
19 and this is my opinion. It seems like they
20 have a stronger argument for -- that it -- it
21 is a -- is a reliable set of data. And a
22 number of things that were -- number of
23 individual data points from some of the early
24 health physics reports that NIOSH was able to
25 cross-walk, maximum values, the -- the percent

1 that were greater than the maximum permissible
2 limit. Say they said five percent of values
3 were found greater than 70, and they looked in
4 the database and they actually matched that
5 number fairly closely, so some of those things
6 were matched up nicely.

7 I think the most convincing point for me was
8 the graphs of the percentiles of data in the
9 health physics report. They showed the 50th,
10 75th and 90th percentiles by -- by week over a
11 half a year, and I know that NIOSH reported on
12 one year and I think I -- I've actually -- I
13 haven't written this out, but I did some back-
14 of-the-envelope sort of checks on these other
15 years that were in the reports and they seem
16 very -- very close to the values. And that's
17 reassuring in the overall sense 'cause --
18 'cause really what you're doing with this data
19 is you're relying on a distribution anyway --
20 in the coworker model -- so if the 90th
21 percentile matches up, you might have some --
22 some small problems with certain data points,
23 but -- but your distribution's -- basically
24 looks the same, so that was reassuring.
25 The -- another point that was brought out was

1 the -- I don't know if Jim mentioned this, but
2 the CER database actually is the Y-12 database.
3 It was just transferred directly, so it's not
4 as if this was a database made specifically for
5 epidemiological research. It was taken in its
6 entirety, so there wasn't any manipulation in
7 between for -- for epi study purposes. And --
8 and further than that, they've produced a memo
9 that seems to indicate that DOE had basically
10 accepted the database data as the official
11 record. And with that, the assumption is that
12 that would have required DOE to check the
13 quality of this thing before they allowed Y-12
14 to use this database as the database of record.
15 They weren't able to track this primary source.
16 They believe it exists somewhere, but -- some
17 communication directly with DOE, but they did
18 identify within a -- I believe it was a health
19 physics report that cited that this
20 communication had occurred with DOE and that
21 they had approved it or something to that
22 effect. I'm -- I actually haven't read the
23 memo, so -- but it is a Hap West health physics
24 report.

25 On the raw -- comparison of the raw data from

1 the urinalysis standpoint, they weren't as
2 successful. But notwithstanding this, this
3 good information. They have health physics
4 reports and good corroboration. They did find
5 some urine -- urinalysis punch cards, but they
6 were really outside the period of concern.
7 They were more in the 1970s, I believe. They
8 were able to match them -- I guess reasonable
9 matches were found. Part of the reason they
10 didn't have -- they -- they couldn't do a
11 direct comparison was because the card data did
12 not include background values or -- or
13 efficiencies, I guess, so they -- they had to
14 assume certain nominal values and do a
15 calculation and -- and got reasonable matches
16 with the data they checked, and checked a
17 limited number of cards on that. But again,
18 the -- the other question there is it was sort
19 of outside the period of interest.
20 Finally, at one point on the workgroup process
21 it was indicated that the urinalysis log books
22 were available, and then I guess further
23 inspection -- they -- they just never turned
24 these up, so we never were able to actually
25 cross-walk anything with urinalysis log books.

1 So that's -- that's the overview of the
2 internal sort of data elements they looked
3 through. And I go through that list only
4 because I think if we're -- if we're really
5 considering, you know, how much is enough, I
6 think you got to get a sense of all the
7 elements that they looked at and -- and
8 consider it that way.

9 You know, a summary for the external -- I think
10 I've done the summary actually for both of
11 these, and the internal, again, you know, the -
12 - it seems that the HP reports with their
13 percentile data, in my opinion, gives the
14 strongest evidence. Should be noted, though,
15 that these reports were mostly, I think, from
16 the '51 through '53 time frame.

17 Now Jim just mentioned something that I wasn't
18 aware of, that the mid-'50s reports are
19 probably out there but they're still under
20 classification review, so that -- that might
21 provide even further corroboration on -- on
22 that part of the database.

23 With regard to external dose reconstruction, I
24 -- I think -- Jim mentioned, Arjun mentioned
25 this and Jim both discussed this. I think

1 really where we're at with that is we need to
2 finalize the review of the coworker models and
3 -- both the gamma and beta coworker models and
4 -- you know, notwithstanding the previous
5 discussion about data validation -- assuming
6 that the database is okay, I think at least
7 we're -- we're -- from what I've surmised from
8 the -- from the process is that we're likely
9 going to end up with something that is not an
10 SEC issue here. There might be some -- I -- I
11 think in some -- in some respects, and probably
12 because of the timing on this, there's a little
13 bit of talking past each other on some of the
14 statistical analysis of these coworker models,
15 but I think that -- you know, in the end of the
16 day it's likely not to be an SEC issue because
17 it's -- it's just a matter of how to model it,
18 not whether it can be modeled and not whether a
19 maximum plausible can be established.
20 Then on internal dose reconstruction I think
21 where -- where we stand -- there -- there
22 remains this question of the uranium in the '48
23 to '51 time period, and I -- you know, I -- I
24 heard -- it's interesting with -- we're --
25 we're pulling the other -- all perspectives

1 now, but I heard Arjun's interpretation and I
2 heard Jim's -- Jim's sort of action on this,
3 and again we're all in real time on this. I
4 thought I -- I indicated the follow-up for that
5 period was not just to determine if they had --
6 you know, for some odd reason all these guys
7 had been fired the day before these samples
8 were to be taken and they weren't in the
9 database in '52. I -- I guess what we wanted
10 was just evidence that what appears to be, the
11 way Jim presents it, a very conservative
12 approach, back-calculating from '52, assuming a
13 chronic exposure during the whole time period.
14 We just want evidence that that bounds these
15 salvage workers who had a very -- it's a
16 different type of job, different type of work
17 and -- and I've at least seen some health
18 physics reports that indicate a lot of times
19 these salvage workers -- I saw one health
20 physics report, I can't remember exactly when
21 it was, but a high percentage of these -- these
22 people were over the MPL and -- and out of --
23 out of four other workgroups there were --
24 there were one or two and there were like 13 of
25 these people, so it raises the question in my

1 mind and I think in SC&A's mind that -- well,
2 let's just make sure that we're bounding the
3 dose. And we -- we talked about possibilities
4 of, you know, was there any air sampling that
5 could sort of -- they could look at during that
6 period and say, you know, we're not going to
7 rely on this for dose reconstruction, but it
8 does show that our method is conservative,
9 something like that. Or for example they could
10 say we identified some salvage workers from
11 that early time period and in fact we have at
12 least this many and -- and -- that were still
13 working in '52 and on the urinalysis program.
14 I think that's the other factor. If they did
15 salvage work from '48 to '51 and then shifted
16 over somewhere where they weren't on the
17 priority urine list -- they might not have been
18 fired, but they might have been another -- you
19 know, another job. So I thought there -- there
20 was just -- and I don't -- I don't think it's -
21 - I -- I think it's close to closed, but I
22 think it needs just a final piece to -- to
23 demonstrate that the approach you -- that NIOSH
24 proposed is going to be bounding, that's all.
25 Then we have -- from the internal side, I think

1 the other sort of action that I see out there
2 is -- is on the exotics, and I think -- this --
3 this came -- as of our last conference call, I
4 think Jim described a five-pronged approach,
5 and I guess when I had the matrix I was looking
6 for a -- you know, a methodology and I didn't
7 even -- I didn't know it was going to be a TIB
8 or what it was going to be, and Jim e-mailed me
9 sort of a fi-- you know, five steps that would
10 be taken to do these DRs. And it's not that it
11 doesn't look reasonable, but I think we really
12 haven't had time to digest that approach. And
13 we did ask for at least maybe some sampling of
14 what these incident data reports look like, and
15 I know Jim said he -- you know, they can be
16 pulled and they're wor-- they're probably
17 working on that, working toward that. But I
18 think that that's -- you know, that we just
19 want to see a little bit -- maybe have a little
20 further discussion on that approach and
21 everybody can sort of sign off on this five-
22 pronged approach. I think it's -- it's almost
23 there, but again it was -- it was the day after
24 the last meeting, probably the -- April 21st
25 that we sort of got something in writing on

1 this and...

2 And then lastly, the DR examples. I think

3 Arjun mentioned this. The -- these have come

4 to us late and they're -- SC&A is currently

5 trying to go through these, but I think these

6 are important and that -- as a Board we've

7 always said that this is where we want to see

8 sort of proof of principle, and I think we just

9 need to -- to allow ourselves time to -- and

10 SC&A time to adequately review those and come

11 back to us and say okay -- you know -- and I

12 think we -- we got quick presentations on

13 those, but you know, just the timing I think on

14 those is the issue, not so much the content

15 yet, but the timing and time to review them.

16 And I guess to conclude, I think we're pretty

17 close, but you know, I -- I know -- I was --

18 you know, there -- there's some -- there's many

19 little things, but I think we're pretty close

20 overall and -- but I don't think as a workgroup

21 that we're prepared at this meeting to make a

22 motion on the class, and I -- I think I -- at

23 least as the workgroup we would recommend that

24 we continue our workgroup process and be

25 prepared at the next Board meeting to bring a

1 recommendation to the Board. And like I said,
2 I -- I don't think -- and I would hope that
3 we're not down to -- you know, I hope we don't
4 have seven workgroup meetings in between this
5 and the next Board meeting. You know, I think
6 we're closer than that and it can be achieved
7 by that, and we'll have had time to step back
8 and assess these -- these sort of lingering
9 elements adequately. And that's --

10 **BOARD DISCUSSION**

11 **DR. WADE:** I heard at the end of your workgroup
12 report a recommendation. I believe that the
13 procedure would be to have that recommendation
14 seconded and then voted upon, accepted by the
15 Board as the Board's recommendation.
16 Before that, though, I'd like to give an
17 opportunity to other members of the working
18 group to offer any opinions that they might
19 like. The working group consisted of Wanda,
20 Mike and Robert Presley. Robert Presley did
21 not participate in the working group's
22 deliberations as it related to the Y-12 SEC
23 petition, but at this point I think it would be
24 appropriate to hear if there are any comments
25 from other workgroup members that want to be

1 put on the record.

2 **MS. MUNN:** Yes, this has been an extremely
3 difficult but ultimately, I think, fruitful
4 working group. It has covered a much larger
5 number of issues than this member ever
6 anticipated when we undertook it. But I hope
7 that it will serve to establish a method of
8 approach for other similar complex sites that
9 will make it easier in the future.

10 I agree with Mark. We're not quite ready to
11 say yes -- I would like to be able to say
12 enough -- this is enough, we've done it. But
13 there are one or two, as Mark pointed out,
14 three or four now very well-defined issues that
15 need to perhaps have a ribbon tied around them.
16 And I would hope we could have one working
17 group that would not require an enormous amount
18 of effort on either the agency or the
19 subcontractor.

20 **DR. WADE:** Thank you. Mike, any comment you'd
21 like to add?

22 **MR. GIBSON:** I'd just like to say that I agree
23 with my working group colleagues that this has
24 turned into a lot bigger issue than what we
25 anticipated. There's been tons of documents

1 back and forth by a lot of hard work by NIOSH
2 and SC&A and it does take a lot of time to
3 review them. And each time you review them, it
4 -- it pars down the issues, but it brings out
5 more specific points that you just need to run
6 to ground. And you know, I think we've come
7 from many issues down to just the few that Mark
8 mentioned, and I, too, believe that another --
9 another call or two, hopefully at the most,
10 maybe we can be done with this and get the
11 matrix all settled out and be ready to present
12 something to the Board at the next meeting.

13 **DR. WADE:** Thank you. Mark, could I ask you to
14 restate your recommendation? After that I'd be
15 looking for a motion that would embody that
16 recommendation.

17 **MR. GRIFFON:** All right.

18 **MS. MUNN:** (inaudible)

19 **MR. GRIFFON:** What's that?

20 **MS. MUNN:** One face-to-face.

21 **MR. GRIFFON:** Yeah, I -- I recommend that --
22 that our current workgroup proceed our
23 deliberation process with NIOSH and SC&A to
24 revolve -- resolve the final outstanding items
25 within the Y-12 -- or with-- identified in the

1 Y-12 SEC evaluation report review.

2 **DR. WADE:** Is there an expectation that it
3 would come to the Board for its next meeting?

4 **MR. GRIFFON:** Yeah, with the expectation --
5 thank you, Lew. With the expectation that
6 we'll come to the next Board meeting with a
7 recommendation on the evaluation report.

8 **DR. WADE:** Okay. I would entertain a motion to
9 that effect.

10 **MS. MUNN:** So moved.

11 **DR. WADE:** Second?

12 **MR. GIBSON:** Second.

13 **DR. WADE:** Okay, we have a motion and a second.
14 Is -- it's open for discussion.

15 **DR. MELIUS:** First of all -- I mean I -- as
16 complex as this has been, I don't think it's
17 certainly out of the ordinary that it would --
18 given that the SEC evaluation report was only
19 received a few weeks ago, that it's going to
20 take some time to eval-- you know, review that
21 and -- and make recommendations on that. So
22 doing that at the -- the June meeting I think
23 is -- is appropriate.

24 My question to you is the -- is -- are we
25 resolving the site profile review or are we

1 trying to resolve issues related to the SEC
2 review? I don't want to wish more meetings on
3 you, but I'm a little confused by where we
4 stand 'cause we started out as a site profile
5 process and then we've sort of morphed it into
6 a SEC process and I'm not quite sure where we
7 are with --

8 **MR. GRIFFON:** We're closing only on the -- I'm
9 talking about closing on the -- the motion
10 described was for the evaluation report, not on
11 the site profile.

12 **DR. MELIUS:** So there'll still be issues
13 related to the site profile --

14 **MR. GRIFFON:** There's still -- yes --

15 **DR. MELIUS:** -- since it covers --

16 **MR. GRIFFON:** -- beyond cl--

17 **DR. MELIUS:** -- other years -- additional years
18 and --

19 **MR. GRIFFON:** Correct.

20 **DR. MELIUS:** -- so forth. Okay. I just was
21 trying to understand that and...

22 **MS. MUNN:** Not many, though.

23 **DR. WADE:** Other discussion?

24 **DR. MELIUS:** I guess I would like some
25 discussion of how we sort of present this to

1 the Board, but I think we need to vote on the
2 motion first.

3 **DR. WADE:** Other discussion?

4 (No responses)

5 Dr. Lockey, do you have any discussion to
6 offer?

7 **DR. LOCKEY:** No.

8 **DR. WADE:** Other discussion?

9 (No responses)

10 So we have a motion and a second. I guess
11 because Dr. Lockey is on the phone I'll just go
12 around the table and ask you to designate
13 whether you are in favor of the motion or not.
14 Gen?

15 **DR. ROESSLER:** In favor.

16 **DR. WADE:** Wanda?

17 **MS. MUNN:** Yes.

18 **DR. WADE:** Jim?

19 **DR. MELIUS:** Yes.

20 **DR. WADE:** Mark?

21 **MR. GRIFFON:** Yes.

22 **DR. WADE:** Mike?

23 **MR. GIBSON:** Yes.

24 **DR. WADE:** Brad?

25 **MR. CLAWSON:** Yes.

1 **DR. WADE:** Dr. Lockey?

2 **DR. LOCKEY:** Yes.

3 **DR. WADE:** Okay. So the motion is approved.
4 What's your pleasure in terms of other issues
5 related to the Y-12 SEC petition?

6 **DR. MELIUS:** My issue or request was at the
7 time we get this present-- the next
8 presentation of the Board -- first of all, I
9 don't think that Jim Neton or someone from
10 NIOSH needs to repeat the whole presentation we
11 -- we've done before. We've heard this before.
12 But there -- there may be some key issues that
13 need to be presented and one of -- would be, I
14 think, helpful to start out maybe with Mark
15 sort of -- or someone from the workgroup
16 presenting sort of what the workgroup has done
17 and sort of just briefly going through issues
18 that have been resolved and here's what's left.
19 And then give NIOSH an opportunity to -- to
20 maybe speak more to -- to those issues, as well
21 as SC&A, as appropriate. And then we can come
22 to some resolution -- resolution on -- on that
23 and a -- and a, you know, final recommendation
24 and a vote and so forth.

25 **MS. MUNN:** The matrix returns.

1 **DR. MELIUS:** Yeah, I would just -- just a
2 comment on that. I just think it'd be helpful
3 --

4 **MR. GRIFFON:** -- matrix.

5 **DR. MELIUS:** -- for those of us not -- not been
6 involved in -- or outside this workgroup to
7 sort of understand the context -- I mean 'cause
8 we tend to narrow down the issues and forget
9 all the things that have been taken care of
10 already, which -- which is sizeable, yet those
11 are in some ways just as important to making a
12 decision on the SEC --

13 **MR. GRIFFON:** That's right.

14 **DR. MELIUS:** -- evaluation.

15 **MR. GRIFFON:** And I would remind, if you need
16 some reading material on the flight home, you
17 know, there's -- there are like four matrices I
18 think developed for the Y-12 review that are
19 dated April 22nd, March 27th, February 27th --
20 actually it might be the -- those three, and
21 they sort of track the progress so you can see
22 items either being completed or -- some items
23 completed and new items added, you know, so you
24 can see sort of the evolution of it if you
25 really want to look at those details. But I'll

1 thank Pete Turcic for coming. I think your
2 presence here added a great deal. I would
3 suggest that the Board exercise the prerogative
4 of inviting Pete back regularly to -- to
5 participate in these discussions.

6 **DR. MELIUS:** I'd like a trip to Washington.

7 **DR. WADE:** Okay, so this issue's closed and Dr.
8 Ziemer can come back.

9 **MR. GIBSON:** Lew, --

10 **DR. WADE:** Oh, I'm sorry.

11 **MR. GIBSON:** -- just one comment is that
12 throughout this process, hopefully when
13 everyone on the Board sees the iterations of
14 the matrix and everything else, it may help
15 pare down future working group actions that,
16 you know, may not be as -- as long-winded and
17 tedious and kill as many trees.

18 **DR. WADE:** We -- we will certainly hold that --

19 **MR. GRIFFON:** Lessons learned, yeah.

20 **DR. MELIUS:** Yeah, but -- I'd just express a
21 contrary opinion. I think -- I don't think we
22 -- you remember this started as a site profile
23 review, and so by the very nature of that
24 there's going to be a lot of -- a lot of
25 issues. It's a complex site with a lot of data

1 and I don't think we need to worry too much
2 about the fact that it takes a long time and
3 takes a lot of effort. And yeah, hopefully we
4 learned from what we've done so far, but at the
5 same time I don't think you need to apologize
6 by the fact that you -- you made the effort.

7 **MR. GIBSON:** Well, I -- I really wasn't -- I
8 guess what I was saying --

9 **DR. MELIUS:** I know what you were saying.

10 **MR. GIBSON:** -- some of the lessons we've
11 learned is -- you know, I think the group
12 members would agree with me that I think we've
13 learned conference calls -- eight or nine-hour
14 conference calls on these issues are as
15 productive as face-to-face meetings.

16 **DR. ZIEMER:** Okay, thank you very much. A
17 couple of housekeeping things before we move
18 forward. Board members, you should have
19 received on your -- at your table place the
20 minutes for the January 24th through 26th
21 meeting, and we will act on those tomorrow. I
22 want to make sure you're aware that you have
23 some bedside reading tonight.

24 Also we have an early draft -- at least I do;
25 do the other members have this?

1 **DR. MELIUS:** All the members do, and then I --
2 I think, after getting a little bit of input
3 from the members, we can revise and make it
4 available tomorrow in time for --

5 **DR. ZIEMER:** Yeah, we're not going to --

6 **DR. MELIUS:** -- our full --

7 **DR. ZIEMER:** -- act on this, but I -- I want
8 the members to note that you have a preliminary
9 version of the proposed motion dealing with the
10 Pacific Proving Ground SEC petition that Dr.
11 Melius has prepared for us, and this will be an
12 opportunity for you to see it in advance before
13 it comes to the table tomorrow. And I guess,
14 Jim, if there's specific questions -- I don't
15 think we want to discuss the motion now, but
16 people can have a chance to digest it and even
17 make suggestions to you off-line, if necessary.

18 **DR. MELIUS:** Correct. There's some new wording
19 in there relative to some issues that we
20 haven't considered before, and I think since we
21 have two motions to deal with, it's helpful to
22 get some input on both --

23 **DR. ZIEMER:** Right, and the motion for the
24 other site will be somewhat parallel to this.
25 I think the -- the new material is the second

1 to last paragraph, specifically, that deals
2 with the issue of those discrete events.

3 **DR. MELIUS:** Right.

4 **MR. PRESLEY:** Jim, will you send me a copy on
5 e-mail, please?

6 **DR. ZIEMER:** Yes, we need to e-mail a copy to
7 Mr. Presley and to Dr. Lockey, as well.

8 **DR. MELIUS:** Yeah, as I get to -- when I get to
9 my room tonight I'll do that.

10 **DR. ZIEMER:** You'll do that. Wanda?

11 **MS. MUNN:** That's what my card was up for. I
12 wanted to make sure that the Chairman of the
13 NTS group had a copy of this and that Dr.
14 Lockey did, as well.

15 **CONFLICT OF INTEREST**

16 **DR. ZIEMER:** The other issue now that we
17 carried forward, in a sense, from this morning
18 -- we had the initial discussion on conflict of
19 interest. I indicated this morning that we
20 might have further time to discuss that. It
21 could also be carried forward to tomorrow. But
22 we do have a little time yet this afternoon, so
23 we could reopen that discussion on conflict of
24 interest, having had, first of all, the
25 materials from NIO-- or from -- yes, from

1 NIOSH, the draft of their proposed policy, some
2 additional input from -- from Mr. Miller and
3 some others.

4 So let us reopen the floor for discussions on
5 conflict of interest and at least talk about
6 issues of concern. We don't have to
7 necessarily come to closure on these now, but I
8 think we need to get on the floor either ideas
9 or concerns that individuals may have relative
10 to the policy or its implications.

11 Dr. Melius, you were waving your tent there.
12 Is that --

13 **DR. MELIUS:** Give me a second here --

14 **DR. ZIEMER:** -- or is that just a --

15 **DR. MELIUS:** If somebody else is ahead of me, I
16 --

17 **DR. ZIEMER:** -- it's just a habit.

18 **DR. MELIUS:** Little bit of a habit.

19 **DR. ZIEMER:** Yeah. Okay, Wanda Munn is going
20 to kick it off.

21 **MS. MUNN:** Although we -- I don't know about
22 the rest of the Board. Having not had an
23 opportunity to really absorb this and think
24 about it very deeply, it nevertheless gives one
25 pause. The concern is primarily what drives

1 the need for these extensive permutations with
2 respect to conflict of interest; the fear that
3 this is being driven by perceptions rather than
4 by realities. There is no way that changing
5 our approach will, I believe, change
6 perceptions with respect to conflicts of
7 interest. Anything that we do can always be
8 improved. But there is a real reason to try to
9 be very clear about what specific parts of our
10 activities that we undergo here are being
11 perceived as being questionable, and why those
12 perceptions exist. One constantly hears that
13 perception is reality, and I personally refuse
14 to accept that. Perfection is not --
15 perception is not reality. Reality is reality.
16 And it behooves us, as we look at things like
17 conflict of interest proposals, to identify
18 what better situation would this change put us
19 in. In the same breath, what additional
20 problems does this bring to us. One can't help
21 but be concerned over the enormous amount of
22 time, effort and consequently financial
23 expenditure that's being, from my perspective,
24 proposed as a result of this new document.

25 **DR. ZIEMER:** Okay. Yes, Dr. Wade.

1 **DR. WADE:** I'll try and address that, Wanda,
2 although, you know, there are many answers to
3 your question. But I'll give you the agency
4 perspective in terms of what drives us.
5 Again, we're doing the people's business and --
6 and in that business we are passing judgment on
7 individuals' claims by -- by a dose
8 reconstruction. We're passing judgment on
9 peoples' claims with regard to the SEC process.
10 So we are involved in that -- my agency is
11 involved in that. This Board is involved in
12 making recommendations to that effect.
13 We therefore need to be sure that the people
14 who we are rendering judgments about can have
15 confidence in the impartiality of the
16 deliberations and the process. And I think one
17 of the things we worry about is, if you look
18 back in history at a particular site, and if
19 you were to find the people who built and owned
20 and administered the -- the radiation health
21 protection programs at that site now coming
22 forward to pass judgment on the adequacy of
23 what they've done by virtue of their work in
24 terms of dose reconstruction or SEC petition
25 evaluation, that raises a concern for my

1 agency. And that's part of what drives us down
2 this path.

3 **DR. ZIEMER:** Okay, thank you. Dr. Melius?

4 **DR. MELIUS:** Yeah. Yeah, I would certainly
5 concur with what Lew said, and I think it's
6 also critical to the credibility of this
7 program that we have a defined approach to
8 that, that we've not done that in the past as
9 well as we should and I think now's the time to
10 make sure that we correct those -- those
11 problems. You know, recognizing that it does
12 require time and effort, but I think it's
13 critical if people are going to trust this
14 program and trust the decisions that are made
15 within the program.

16 My -- my question is -- and I don't have the
17 former policy in front of me so I'm going from
18 memory, but if I understand this correctly, we
19 -- in this new policy we've now made some
20 changes that make this -- the new policy less
21 stringent than the old. And it's particularly
22 in terms of how people, the site experts and
23 the subject experts -- particularly site
24 experts -- are handled. If I -- my
25 recollection from the old document was that

1 site experts was considered a key program
2 function. Now this current -- in the current
3 one they're listed as -- in it are non-key
4 program function, but then we have documents
5 that are key program function documents, and
6 it's extremely, at least to me, very -- very
7 confusing trying to und-- understand that --
8 that change and what's meant by that. But I --
9 I think that gi-- given some of the issues that
10 have been raised about -- at some of the sites
11 so far, I think that the site experts have been
12 the ones that -- where there has been the most
13 que-- question raised about their roles and so
14 forth. And I want to be clear that I
15 understand what you mean by this new doc-- new
16 document relative to those people.

17 **DR. WADE:** And I appreciate that, and I
18 apologize for the -- for confusion. It -- we
19 would try to eliminate it, but it's impossible
20 as you deal with issues of this type.

21 As I mentioned this morning, if someone worked
22 at a site -- at a site in question, that person
23 would be found to be conflicted, and therefore
24 that person could not perform a key program
25 function. It doesn't mean that person could

1 not be a site expert. And as a site expert
2 could provide input to these processes, could
3 even speak at a meeting to these processes, but
4 they would not be the principal author of the
5 document, the reviewer of the document or the
6 approver of the document. So I don't think in
7 that sense it's intended to be any less
8 stringent than it was before.

9 But I've had several people mention that to me
10 and I think we really need to explore that in
11 more detail. It was certainly not the
12 intention of the authors of the document to
13 relax on that issue, but -- but to make it
14 clear who -- who was contributing and to do the
15 attribution as appropriate, but not to allow
16 someone who was -- who had worked at that site
17 the ability to perform a key program function.

18 **DR. MELIUS:** It's -- it's certainly not how I
19 recall our discussion of the last conflict of
20 interest policy. And as I said, I don't have a
21 copy with me and it's -- I'd certainly raise
22 some issues about them representing the program
23 and speaking for the program. I think that's a
24 fundamental source of a lot of the -- the
25 issues we -- we have now. A person who's a

1 site expert goes and holds a meeting with the
2 representatives of the workers at the facility
3 to get input about that facility. Well, it's
4 input about the program that that per-- that
5 site expert had developed and people I think
6 are going to naturally have some issues about
7 whether that site expert is going to take that
8 information back and, you know, treat it --
9 treat it fairly and -- and so forth. I mean --

10 **DR. WADE:** That is a valid point.

11 **DR. MELIUS:** Similarly, I -- I think that we
12 also have the document own reporting -- a lot
13 of responsibility on them, and certainly we --
14 we haven't seen evidence that and -- some of
15 the recent workgroup discussions and so forth
16 the reported document owners have not really
17 been significant participants, so -- we've
18 instead heard from site experts and subject
19 experts, and I think that raises some problem--
20 problems, also, particularly when they --
21 again, if someone's called on to address
22 something it's one thing. It's -- it's another
23 thing when they're the ones essentially leading
24 the discussions.

25 **DR. WADE:** Understood. I -- those are issues I

1 have been aware of and I've been on all of the
2 workgroup calls. I think we have been trying
3 to work that issue, and in my monitoring we've
4 done a better job of seeing that all people
5 with conflicts are identified and that those
6 people with conflicts are not leading the
7 discussion but are only there to ask -- answer
8 specific questions when asked. Again, we need
9 to continue to monitor that, but that's the --
10 the goal that we have in mind with regard to
11 the interactions, the workgroup calls, and I
12 think we're doing a better job on that.

13 **DR. ZIEMER:** And it may be that one has to look
14 at the other side of this at the same time and
15 not only assure that the owner has no
16 conflicts, but that the owner is in fact in a
17 position to actually make the judgments on the
18 validity of the site expert's testimony and the
19 other materials that come so that -- so that
20 there's a level of confidence that the site
21 (sic) owner himself or herself is truly a
22 competent individual and can -- that we have
23 confidence in the owner so that if there is an
24 issue with -- or some possibility that there's
25 a perceived bias, that the owner can deal with

1 that in a clear and effective way.

2 **DR. WADE:** And that's the conundrum in what
3 we're trying to do. You want someone who is
4 competent and able to make that judgment, and
5 yet you want a person who is not conflicted.

6 **DR. ZIEMER:** Not the expert. Dr. DeHart?

7 **DR. DEHART:** In your presentation this morning
8 and in my brief opportunity to review this, I
9 see -- I think for the first time -- a true
10 balance. In other words, in the past we have
11 taken great care to ensure that anyone who has
12 worked in behalf of the government is watched
13 over very carefully. Now we're seeing that if
14 there has been a litigation and -- both sides
15 now are expected to be -- be watched, as it
16 were, for -- for bias and other issues.

17 **DR. WADE:** Thank you. And just to give some
18 credit, the model that was used for the
19 document in front of you really was the SC&A
20 conflict of interest policy, and it contained
21 that balance and we found it important and
22 tried to incorporate it into this document.

23 **DR. ZIEMER:** Other comments?

24 **DR. MELIUS:** Yeah.

25 **DR. ZIEMER:** Jim.

1 **DR. MELIUS:** Just if, again, my recollection is
2 correct, we made a deliberate distinction
3 between the SC&A -- what we -- the policy for
4 our contractor, SC&A, and the policy we've had
5 in place for -- for other participants in this
6 program and so forth, and there were reasons
7 for that and the -- the balance that Roy
8 applauds, I have some concerns about. We had
9 gone through this once before in the Board and
10 reached a decision. This is a ma-- major
11 change in that decision and I think there are
12 some potential problems with it.

13 **DR. WADE:** It does represent -- you're correct
14 in your reading. We are not distinguishing
15 between anyone within the family as it relates
16 to a conflict of interest policy, so the Board
17 needs to be clear on that and individual Board
18 members need to be clear on that.

19 **DR. ZIEMER:** Yes, Mark.

20 **MR. GRIFFON:** I did -- just a -- I mean just to
21 maybe reflect on workgroup experience as -- as
22 Lew for -- was -- was talking about, and -- I
23 mean one observation of mine, and you know, I
24 think it -- it needs to come out, you know,
25 directly, is that -- you know, it says for

1 document owner -- for Rocky Flats the document
2 owner is Karin Jessen and the last -- the first
3 workgroup call on evaluation report that we
4 had, it strikes me that Karin Jessen wasn't on
5 the record except to introduce herself. So if
6 she's -- has all these responsibilities
7 relevant to this evaluation, independent of the
8 site -- site experts and subject matter
9 experts, seems to me that -- that she didn't
10 play a very big role in the deliberations. And
11 I guess one would be concerned that the subject
12 matter experts and site expert are really
13 driving the thing and a -- another name is
14 going on at the end. That -- that's a concern,
15 so --

16 **DR. WADE:** It's a concern for us, as well.

17 **DR. ZIEMER:** Thank you. Lew, give us some idea
18 -- you did already -- of what you see as the
19 timetable for the agency. Are we in a position
20 where we'll have time to formulate formal
21 recommendations or what -- what are we looking
22 at in terms of progression here?

23 **DR. WADE:** Yeah, I mean I -- it -- it's risky
24 to -- to imagine, but I would think that --

25 **DR. ZIEMER:** Or is there a target closure date?

1 Let's start there.

2 **DR. WADE:** Well, no, there isn't one, and I
3 would think two Board meetings forward would
4 be, I think, a realistic closure date, knowing
5 how this process works. And again, we don't
6 want to rush to finality, although again, as I
7 said, we are interested in being guided by the
8 principles that we espouse, but I would think
9 that at the next meeting we will have heard
10 your comments, both individually and -- and
11 possibly collectively. We would offer you
12 another draft. I would see another iteration
13 before I would hope to -- to bring the curtain
14 down.

15 **DR. ZIEMER:** More comments or suggestions at
16 this point, or issues that you at least want to
17 raise? Again, we'll have the opportunity then
18 to formalize recommendations at a somewhat
19 later date. As was suggested, we haven't had
20 full time to digest this, but you might --
21 having looked at it and heard the presentation,
22 you might have some initial reactions or -- or
23 concerns, some of which have been raised
24 already. An additional comment?

25 **DR. MELIUS:** Just one additional question. Who

1 -- who is the document owner?

2 **DR. WADE:** This document owner?

3 **DR. MELIUS:** And who are -- who are the site
4 experts that -- that participated --

5 **DR. WADE:** I'll define -- I'll define the
6 document owner as John Howard is the document
7 owner. I am simply the person --

8 **DR. MELIUS:** How come he's not speaking here?

9 **DR. WADE:** Well, because he's the boss and I'm
10 not. You see, that's how it tends to work. I
11 am the target, he is the document owner.

12 **DR. ZIEMER:** Actually we -- we left that one
13 out, the target. Put that in -- a new role.

14 **MR. PRESLEY:** Hey, Lew?

15 **DR. ZIEMER:** Yes.

16 **MR. PRESLEY:** Bob Presley.

17 **DR. ZIEMER:** Yes, Bob, go ahead.

18 **MR. PRESLEY:** Can you see that John and I both
19 get a copy of this 'cause we're running blind
20 on it.

21 **DR. WADE:** Okay, we will certainly attempt to
22 e-mail something to you.

23 **DR. MELIUS:** It was already e-mailed.

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

25 **DR. WADE:** It has been e-mailed before, but we

1 will do it again.

2 **DR. ZIEMER:** Robert, this is -- the document
3 will be entitled "NIOSH statement of policy,
4 conflict of interest, draft of 14th February,
5 2006."

6 **DR. WADE:** I think it was sent to you probably
7 two weeks ago, or cl-- well, about ten days
8 ago, but we'll send it again.

9 **MR. PRESLEY:** Thank you, sir.

10 **DR. WADE:** You're most welcome. Thank you.

11 **DR. ZIEMER:** If -- if there's no further
12 discussion on this topic this afternoon, I
13 think we will go ahead and come to closure for
14 the day, realizing that you'll have a chance to
15 get some dinner and return for the public
16 comment session at 7:00.

17 I suspect many members of the public who wish
18 to comment will be coming at that time and
19 signing up. If any are here now and haven't
20 signed up to make public comment but wish to do
21 so, please avail yourselves of that.

22 We will not restrict the comments to the Rocky
23 Flats issue, so there will be opportunities for
24 others to comment, as well.

25 Any additional housekeeping items to come

1 before us?

2 **DR. WADE:** No, that's it.

3 **DR. ZIEMER:** It appears not, so we will recess
4 until 7:00 o'clock. Thank you very much.

5 (Whereupon, a recess was taken from 4:35 p.m.
6 to 7:00 p.m.)

OVERVIEW OF BOARD ACTIVITIES/PUBLIC COMMENT

DR. PAUL ZIEMER, CHAIR

7 **DR. ZIEMER:** Good evening, everyone. I'd like
8 to call the meeting to order. This is a public
9 comment period for the Advisory Board on
10 Radiation and Worker Health. My name is Paul
11 Ziemer. I serve as Chairman of this Advisory
12 Board. I want to take just a couple of minutes
13 to tell you a little bit about what the Board
14 does, and maybe a little bit about what it
15 doesn't do, and acquaint you with that. It's
16 not always clear to people who these folks are
17 sitting up here; what do they have to do with
18 anything.

19 Well, I want to tell you that the Advisory
20 Board is independent of the federal agencies
21 that are operating the compensation program.
22 The compensation program is basically operated
23 by several agencies -- Department of Labor,
24 Department of Health and Human Services and

1 NIOSH, and Department of Energy. This Advisory
2 Board has been appointed independently of those
3 groups. These individuals are appointed by the
4 President. They represent independent people,
5 as it were. We are all individuals, as I say,
6 not connected with the agencies involved.
7 I myself am a retired professor from Purdue
8 University -- any Boilermakers here? I'm the
9 only one, huh? Okay. We're Boilermakers.
10 There may be some other union boilermakers, but
11 we're the Boilermakers at Purdue. Anyway, I'm
12 a retired professor who spent most of my -- I
13 spent most of my career teaching in the area of
14 radiation safety, or health physics, so that
15 technical connection is perhaps the reason that
16 I'm involved here. But we have individuals on
17 this Board with many different backgrounds.
18 I'm going to ask each of the members of the
19 Board to introduce themselves by name, tell you
20 where they work -- or where they did work; some
21 are retired like me -- and also tell you what
22 their area of specialty is. We'll begin here
23 with Dr. DeHart. Roy, use the mike, please.
24 **DR. DEHART:** Good evening. I'm Dr. Roy DeHart.
25 I'm a physician, an occupational medicine,

1 aerospace medicine, Board-certified physician
2 in that area. I've had the opportunity to work
3 in Oak Ridge at X-10 and Y-12. I'm currently a
4 professor in medicine at the University of
5 Vanderbilt in Nashville, Tennessee.

6 **DR. ZIEMER:** Bradley Clawson.

7 **MR. CLAWSON:** My name's Brad Clawson. I'm a
8 senior operator in the nuclear fuel handling
9 division at the Idaho site, the INEL out there,
10 and I'm still working out there, unlike some of
11 my other ones. I work in the field -- my
12 specialty's the -- mainly deal with handling
13 uranium products and the remnants of a lot of
14 the Cold War.

15 **DR. ZIEMER:** And this is Mike Gibson -- maybe
16 stand, everyone, so everybody can see you.
17 It's hard to see you sitting, maybe.

18 **MR. GIBSON:** My name is Mike Gibson. I'm a --

19 **DR. ROESSLER:** His mike is better than yours,
20 Paul.

21 **MS. MUNN:** Yeah.

22 **DR. ROESSLER:** His microphone is better than
23 the one you're using.

24 **MS. MUNN:** Is it? I didn't think so.

25 **DR. ROESSLER:** Oh, really? Okay.

1 **DR. ZIEMER:** Hold it up there, Mike.

2 **MR. GIBSON:** My name is Mike Gibson. I'm --
3 I've left Mound facility three years ago as
4 they were closing it down. I'm a former union
5 president, electrician by trade. I'm a former
6 vice president of the Atomic Workers Council
7 that represented some of the former OCAW sites
8 who are now United Steel Workers. I was
9 appointed to this Board in August of 2002.

10 **MR. GRIFFON:** Hi, I'm Mark Griffon. I'm a
11 consultant. I do radiation-related research.
12 I'm a health physicist by training and I'm out
13 of Salem, New Hampshire.

14 **DR. WADE:** And my name is Lewis Wade. I'm not
15 a member of the Board. I represent the
16 Secretary of Health and Human Services on the
17 Board as a Designated Federal Official, and I'm
18 proudly an employee of NIOSH and the federal
19 government.

20 **DR. MELIUS:** And I'm Jim Melius. I'm an
21 occupational physician. I work for the
22 laborer's union.

23 **MS. MUNN:** I'm Wanda Munn. I'm a nuclear
24 engineer, retired from Westinghouse Hanford
25 Company. I live in Richland, Washington.

1 **DR. ROESSLER:** I'm Genevieve Roessler. I'm
2 retired from the University of Florida. There
3 I was a professor of health physics. I moved
4 to Minnesota so I could be closer to some of my
5 seven children and 16 grandchildren.

6 **DR. ZIEMER:** The fellow here who some of you
7 think is gasping for oxygen is actually our
8 court reporter, who is basically one of the top
9 recorders in the world, actually -- probably
10 the top one in the U.S., but he gets every word
11 that we say.

12 This Advisory Board meets on a regular basis,
13 and our function is to help, as it were -- and
14 sometimes it's not always interpreted as help -
15 - but to help the agencies involved in making
16 sure the compensation program operates the way
17 Congress intended it to. In that sense we have
18 what you might call oversight responsibilities.
19 We review -- we actually do audits of some of
20 the dose reconstructions that are done by
21 NIOSH. We get involved in the petitions for
22 Special Exposure Cohorts, including the Rocky
23 Flats petition that is under way right now, and
24 this Board has the responsibility of making a
25 recommendation to the Secretary of Health and

1 Human Services on those kinds of petitions.
2 And then the Board also has responsibilities on
3 reviewing some of the other work that's done in
4 connection with the dose reconstructions.
5 We do not handle the individual dose
6 reconstructions. Those are handled through
7 Labor and the reconstructions through NIOSH.
8 Likewise the individual claims, anything that
9 has to do with the claims, the only real need
10 for us to learn about your case is because it
11 helps us understand how the program is working,
12 or in some cases you might feel is not working.
13 So we're pleased to hear your experiences or
14 experiences of one you are representing. We
15 try to take that input seriously and understand
16 what we can do, what our input can be to the
17 program to help correct areas where there are
18 concerns or problems. So keep that in mind as
19 you talk to us tonight. If you have a
20 particular issue with your case, we can
21 certainly make note of it, but your individual
22 case does not get handled by this Board -- nor
23 are we an appeals board. If your compensation
24 is turned down, we do not get involved in
25 appeals, either. So I just want to make that

1 clear. So we are more of an oversight group
2 trying to help make the program work better.
3 And as I say, how well we do that is not always
4 clear. We're trying to do that well. These
5 are independent people, as you say.
6 Lew Wade is here representing NIOSH because
7 under the Federal Advisory Act laws, each board
8 of this type has to have a Designated Federal
9 Official who serves as kind of an executive
10 secretary, makes sure that our meetings are
11 scheduled and our agendas are set and so on.
12 But he is not a voting member of this Board.
13 We're also aware that there is a Rocky Flats
14 petition for Special Exposure Cohort in
15 progress. In the morning more of that petition
16 will be presented to this Board and at some
17 point this Board will be in a position to
18 actually make a recommendation to the Secretary
19 on that petition. So that gives you a little
20 bit of a background about what we're about.
21 I'm going to have our Designated Federal
22 Official in a moment make a few remarks. I do
23 want to see if there are any Congressional
24 delegates here -- anyone representing either
25 the Senators or the Congressmen -- yes, and

1 let's recognize each of them. If you would
2 each approach the mike and maybe -- and if you
3 have any preliminary remarks at this time, we'd
4 be pleased to have you make them, as well. I
5 think we have several here. Just go -- you can
6 figure out who's going to go first.

7 **MS. ALBERG:** Thank you. My name is Jeanette
8 Alberg. I'm with U.S. Senator Wayne Allard's
9 office. We are here today obviously to take
10 part in this public comment session. The
11 Senator today also actually drafted and sent a
12 letter to Secretary Leavitt encouraging to use
13 fair consideration on the steelworkers' SEC
14 petition, so depending on where that goes, he
15 has actually sent a letter to the Secretary
16 asking for fair consideration. I do have
17 copies of the press release which includes that
18 here in the back, or you can also visit with
19 me, as well. So thank you.

20 **DR. ZIEMER:** Thank you very much. Either of
21 the other individuals -- at least introduce
22 yourself right now, and if you wish to defer
23 comment, that would be fine as well.

24 **MS. MINKS:** Sure, I'm Erin Minks with Senator
25 Salazar's office, and I'm here with my

1 coworker, David Hiller, who has a statement
2 from the Senator to share with you tonight.

3 **DR. ZIEMER:** Thank you. And David, we'd be
4 pleased to have that statement now, if you
5 wish.

6 **MR. HILLER:** Thank you, Dr. Ziemer. This is a
7 letter that was signed by Congressman Mark
8 Udall, as well as Senator Ken Salazar,
9 addressed to the Advisory Board.

10 (Reading) Dear Dr. Ziemer and members of the
11 Advisory Board. We have recently learned of a
12 request from one of the petitioners on the
13 Rocky Flats United Steelworkers of America
14 petition to delay the Advisory Board's decision
15 to determine Special Exposure Cohort status.
16 As you know, that petition is on the agenda for
17 consideration during the Board's working
18 meeting in Denver from April 25 to 27. We ask
19 that you grant this request, which we think is
20 appropriate because of ongoing concern on the
21 part of independent petition reviewer S. Cohen
22 & Associates about the quality and reliability
23 of data, a problem that affects their ability
24 to provide a meaningful report to the Board in
25 time for this meeting.

1 When the Rocky Flats United Steelworkers of
2 America Local 8031 filed their Special Exposure
3 Cohort petition in February 2005 they hoped for
4 prompt and fair consideration of their request
5 to be included in the Special Exposure Cohort.
6 But it is more important that the consideration
7 be fair than that it be prompt, especially now,
8 more than 14 months later. The essential
9 component to this fair consideration is to
10 allow S. Cohen & Associates the time necessary
11 to perform a careful and complete review of the
12 petition.

13 As you may know, our offices have participated
14 in tel-- by telephone in several recent
15 meetings of the Board's subcommittee for dose
16 reconstruction and site profile reviews, and of
17 the working group of Board members, NIOSH
18 representatives and S. Cohen & Associates
19 representatives. The S. Cohen & Associates
20 December 2005 detailed report on the Rocky
21 Flats site profile addresses many of the
22 problems that the Steelworkers have identified
23 in the history of Rocky Flats' radiation
24 monitoring record-keeping.

25 We have been advised, however, that S. Cohen &

1 Associates has only recently begun an in-depth
2 review of the Steelworkers' petition itself.
3 This independent review is important and it is
4 unfortunate that it has commenced so late in
5 the process. We do not see how this review can
6 be completed before the Board's meeting
7 scheduled for April 25 to 27 in Denver,
8 Colorado.

9 Therefore we respectfully request that the
10 Board defer action on the petition until S.
11 Cohen & Associates has completed its review of
12 the petition and until the working group and
13 the subcommittee have provided their
14 recommendations to the Board.

15 Thank you in advance for your prompt attention
16 to this request. Sincerely, Mark Udall and Ken
17 Salazar.

18 And we delivered this letter to you yesterday.
19 Thank you very much, Dr. Ziemer and members of
20 the Board.

21 **DR. ZIEMER:** Thank you, Mr. Hiller, and indeed
22 this request will be before the Board tomorrow
23 as we deliberate on this very subject, so we
24 appreciate the input.

25 **MR. HILLER:** Thank you, sir.

1 **DR. ZIEMER:** One other comment --

2 **MS. MINKS:** Excuse -- yeah, sorry. It was
3 actually suggested that I read the letter in
4 that Senator Allard --

5 **DR. ZIEMER:** Yes.

6 **MS. MINKS:** -- wrote, so I'll just read that
7 quickly. Again, it's from Senator Allard to
8 Secretary Leavitt. It says (reading) Dear
9 Secretary Leavitt, in March 2005 and in
10 November 2005 I, along with my colleagues
11 Senator Ken Salazar, Congressman Bob Beauprez
12 and Congressman Mark Udall, contacted you
13 concerning the Rocky Flats Special Exposure
14 Cohort SEC petition that was filed by the Rocky
15 Flats Steelworkers on February 15th, 2005. We
16 encouraged your office to do all in its power
17 to ensure an expeditious and fair consideration
18 of the Rocky Flats SEC petition.

19 The intent of Congress when passing the Energy
20 Employees Occupational Illness Compensation
21 Program Act in 2000 was included -- which
22 included SEC petitions, was to ensure that the
23 men and women who put themselves in harm's way
24 by working at Rocky Flats and other nuclear
25 production sites had a clear and just process

1 for applying for appropriate financial and
2 medical compensation provided under the law.
3 The Rocky Flats SEC petition is an application
4 for such compensation under this Act.
5 I support the efforts of NIOSH and OCAS to
6 fairly and scientifically evaluate the Rocky
7 Flats SEC petition. I was pleased to learn
8 from my staff that many of the concerns
9 regarding the Rocky Flats SEC petition and the
10 site profile have been resolved in the past few
11 months. However, at the same time it also
12 appears that the ultimate progress of the Rocky
13 Flats SEC petition has stagnated significantly.
14 My office was advised -- initially advised that
15 the Rocky Flats SEC petition would be placed
16 before the Advisory Board at the January 2006
17 Board meeting. Then in December of last year
18 my office was advised that the Board would not
19 make a decision on the Rocky Flats SEC petition
20 until the April 2006 Board meeting because of a
21 number of outstanding concerns related to the
22 petition and the Rocky Flats site profile. My
23 office has now been advised the petition may
24 not be taken up until the April Board meeting
25 due to some outstanding concerns related to the

1 quality of data available.

2 I understand and appreciate the care,
3 consideration and detail that must be taken
4 into account when reviewing SEC petitions and
5 site profiles. I also understand and believe
6 that the only way to fairly evaluate SEC
7 petitions is by using the best scientific
8 knowledge and data available. This was a key
9 component of the Act, and one which I fully
10 support. If our best science is thwarted by
11 incomplete data or data quality concerns, the
12 intent of the Act is clear, the site SEC
13 petition must be approved. Should the Advisory
14 Board decide to table the Rocky Flats SEC
15 petition until the June -- or until the next
16 Board meeting, the review of the Rocky Flats
17 SEC petition will be at least six months past
18 what my office and the petitioners were
19 advised. To the men and woman who have filed
20 that petition and to the thousands more who
21 knowingly or unknowingly risked their lives at
22 Rocky Flats, the delay is unjustifiable, but
23 understandable given the -- given the new ac--
24 new data that's looked at.

25 I encourage you to do everything in your power

1 to see that the Rocky Flats SEC petition is
2 reviewed fairly and that a decision is made as
3 expeditiously as possible. I believe your
4 leadership is critical to this process. The
5 men and women of Rocky Flats deserve and
6 appreciate your support as this petition moves
7 forward. If my office can be of any assistance
8 to you or the Advisory Board as you review the
9 petition, please do not hesitate to contact me.
10 Thank you in advance for your assistance.

11 Sincerely, Wayne Allard, United States Senator.
12 And just to echo the concerns that Congressman
13 Udall and Senator Salazar's office raise, our
14 office too was contacted and we understand the
15 request of the petitioners to delay the
16 application, as well. Thank you.

17 **DR. ZIEMER:** Okay, thank you very much. I now
18 will move to the sign-up sheet of individuals
19 who've requested the opportunity to speak.
20 I'll simply take them in the order that people
21 have signed up. The first individual is Knut
22 Ringen, and he is apparently prepared with
23 PowerPoint slides. Knut.

24 **MR. RINGEN:** Yes, I don't want to waste any of
25 your time -- or too much of your time.

1 **DR. ZIEMER:** Anyway, Knut is here from the
2 Center for -- to Protect Worker Rights and --
3 here in Denver -- well, it's not in Denver.
4 He's here in Denver. Okay, there we go.

5 **MR. RINGEN:** Well, thank you very much for
6 letting me meeting with -- meet with you again.
7 I've talked to you once before about our
8 concerns, and I appreciate your holding these
9 evening sessions, which we suggested that's a
10 very useful thing for all of us.

11 Today I'm here representing the Center to
12 Protect Workers' Rights -- that worked a little
13 too well -- and I have a handout packet that I
14 left in front of you that consists of four
15 attachments that you can see here. I will also
16 (sic) copies of this handout packet and the
17 slides at the table behind -- in the back there
18 if anybody wants them. I'm using the slides to
19 try to organize myself as well as I can.

20 The Center to Protect Workers' Rights is the
21 research arm of the Building and Construction
22 Trades Department of AFL-CIO, and we represent
23 the 15 international unions that cover the
24 construction trades in the U.S. We are here as
25 representatives of the claimants, and I want to

1 make clear that we have many, many interests
2 with NIOSH and in this program.
3 First of all, together with NIOSH we operate,
4 and have for 16 years, a very large
5 construction research center in safety and
6 health. We conduct work for DOL under a
7 contract on the EEOICPA program. We manage
8 Department of Energy-funded medical screening
9 programs at this point in time at 15 different
10 DOE sites, including -- we're just starting
11 here at Rocky Flats. We have had a contract
12 and we proposed more work with OCAS on issues
13 related to dose reconstruction -- dose
14 reconstruction methods for construction
15 workers.
16 We're not -- we're only here to speak for
17 construction workers and their -- for the --
18 who are claimants, as well as their survivors.
19 We can't claim to speak for any of the other
20 kinds of workers, but probably many of the
21 things that apply. We want to make clear our
22 comments are about construction workers.
23 We also want to make clear that we support
24 individual dose reconstruction where it can be
25 done validly, fairly and timely -- and I'm

1 going to speak a fair amount about all three of
2 those issues today. And we will help in any
3 way we can to make the dose reconstruction
4 program work.

5 Our concerns are the following: NIOSH agrees
6 it doesn't have a valid dose reconstruction
7 model for the vast majority of construction
8 worker claimants. Nevertheless, it's managed
9 to process what we think is somewhere between
10 700 and 1,500 construction worker dose
11 reconstructions. As far as we know, these have
12 not been audited for validity, and we don't
13 think Sandy Cohen & Associates has the
14 necessary expertise to adequately audit a dose
15 reconstruction for construction workers.
16 NIOSH is sitting on about four or five -- 4,500
17 to 5,300 construction worker claims, and it's
18 been sitting on many of them for more than four
19 years, and we hear from those claimants
20 regularly. The reason that they're sitting on
21 them is that they don't have a valid method, as
22 I mentioned before. And the reason that they
23 don't have a valid method, in our opinion, is
24 that this isn't a big priority to NIOSH. And
25 although construction worker claimants are 30

1 percent of all of the current claimants, and at
2 least 50 percent of potentially all claimants,
3 this Board doesn't seem to give it a very high
4 priority, either.

5 In December 2003 I first asked -- talked to you
6 about this issue, and I want to give you a
7 quick update on the major issues that we
8 presented to you and where they're at at this
9 time.

10 We asked for expedition of construction worker
11 dose reconstructions. That's not happened. We
12 asked NIOSH to provide us with data on the
13 status of all those claimants who are
14 specifically construction workers that are in
15 their files. That has not happened. We asked
16 NIOSH to develop replicable protocols for all
17 of its work, including its site profiles. That
18 has not happened. We asked NIOSH to develop a
19 valid dose reconstruction method for
20 construction workers, and that still has not
21 happened. We asked NIOSH to produce
22 construction-specific site profiles. That has
23 not happened. And we asked NIOSH to fix the
24 conflict of interest problem in its contractor,
25 and only now it seems that it's getting ready

1 to do something about that, although I don't
2 think nearly enough. So after two and a half
3 years, we don't have a whole lot to show for
4 the issues that we asked this Board and NIOSH
5 to deal with at that time, and we think these
6 are very critical issues for a large number of
7 claimants.

8 There is no question that OCAS has a
9 significant credibility problem among many of
10 the claimants, which may or may not be valid,
11 but we -- certainly in large part it's self-
12 inflicted. I've included a letter -- we get
13 them all the time from claimants. I included
14 one that we just got last week in attachment
15 four, which says (reading) NIOSH could have
16 consulted the Psychic Friends Network or the
17 Magic and the Ball -- I've never seen these
18 programs, by the way -- for approval of claims
19 with the same credibility as they did with
20 their dose reconstruction.

21 Now that may be an unfair comment, but that's a
22 very com-- fair com-- common type of comment
23 that we get, and I think it arises out of
24 problems that NIOSH has in three basic areas.
25 One is the governance and organization of the

1 program. The second is the administration of
2 the program. And the third is the science.
3 I'm going to go through those things quickly.
4 When NIOSH first established the program -- or
5 within two years after it was -- came into
6 being, it established a rule on dose
7 reconstruction which we at that time felt was
8 way too vague. One thing that we raised
9 concern about from the start was that it didn't
10 and refused to set a time limit of how long it
11 was going to take to do a dose reconstruction.
12 We said there has to be a period of time in
13 which a claimant here can get its claim handled
14 by you, and NIOSH would not set that date. And
15 that's a big problem that we face right now.
16 There are many other problems with the rule,
17 and a lot of the problems I talk about go back
18 to that rule.

19 The second thing that NIOSH did was to select a
20 contractor that is rife with appearance and
21 actual conflict of interest. There's no other
22 way to put it. There's no reason to be polite
23 about it, there's tons of conflict of interest
24 in this program. And that became already clear
25 after the first site profile was issued for

1 Savannah River, which I talked about in
2 December of 2003. And I said there's clear
3 conflict of interest, at least on part of one
4 author of that document. We were shocked by
5 that. But that conflict of interest is
6 relatively minor compared to the documents that
7 came afterwards at places like Hanford, where
8 five or six of the main authors had very
9 extensive conflict of interest.

10 Now I wouldn't come here and talk about this
11 for the -- right now if we hadn't made these
12 points previously. We made it with Larry
13 Elliott and to NIOSH when this program was
14 first established. We made the same comments
15 when the rule was issued, first rule was
16 issued. We made the same comments when NIOSH
17 proposed to hire a single contractor to do its
18 work. We said there was going to be problems
19 with that. And we made it in presentations to
20 this Board before. So we don't come at this
21 new.

22 But there was one problem we'd never
23 anticipated after this program was established,
24 and that was the adversarial relationship that
25 developed between OCAS and this Board,

1 particularly the first three or four years.
2 That we hadn't expected, and I think has been
3 problematic in the development of the program.
4 Finally, you are now addressing the conflict of
5 interest issue. That was only really as more
6 and more pressure was placed on NIOSH to deal
7 with it, and really only in the last month when
8 a lot of this broke out in the news. And Larry
9 Elliott at that time said it's a very
10 difficult, complex dilemma that we face,
11 according to at least several of the news
12 reports that quoted. He said because the pool
13 of available health physicists is so small.
14 Now we don't agree with that. It's not -- the
15 problem here is not the small number of health
16 physicists. We think the problem is the
17 contractual route that NIOSH chose in operating
18 the program.
19 There are also problems of administration.
20 NIOSH says it's been unable to deal with
21 construction worker claims because of a lack of
22 resources. Now I would challenge anyone to
23 find any program in the history of occupational
24 safety and health that has had more resources
25 than this program. According to the

1 President's budget, OCAS receives a budget of
2 \$50 million per year. That doesn't include the
3 budget for this Board, by the way. So far it's
4 cost roughly \$14,000 per dose reconstruction to
5 complete one if you divide its budget with the
6 dose reconstructions that's done. So far, at
7 least in this year in January and February,
8 NIOSH has done about one dose reconstruction
9 per FTE in the program, or between its
10 contractors per month. And for every dose
11 reconstruction that results in a claim of
12 \$150,000 being paid to a claimant, NIOSH spends
13 about \$50,000 in all on dose reconstructions
14 because only one in four claims results in an
15 award. So there isn't a shortage of money or
16 resources here. As near as we can tell, if we
17 compare this to the medical screening programs
18 that we conduct -- which also include doing
19 site profiles, outreach to recruit people in,
20 medical exams which Dr. DeHart among others
21 have done many of, X-rays, lung function tests,
22 lab tests, work history interviews, follow-up
23 both in terms of medical care and in terms of
24 claims -- we do all this for about \$1,000 per
25 participant. It would seem that NIOSH ought to

1 be able to manage with the money it has if it
2 can spend \$14,000 per dose reconstruction.
3 So we see it not as an issue of resources, but
4 it's really priorities and management that have
5 left out the construction workers so far in
6 NIOSH's program.

7 We've also identified a number of problems in
8 science. First of all, we think that there is
9 a general ingrained bias in health physics that
10 consists of two basically held views. Anyone
11 who's not been monitored could not have been
12 exposed is something we hear commonly. And
13 secondly, anyone working in an area not
14 designated as a radiation area could not have
15 been exposed and therefore doesn't need to be
16 monitored. Both of these biases or views --
17 prevailing views, if you apply them, I think
18 when they get applied to construction workers
19 it leads people, both in this program and in
20 the general health physics community, to
21 conclude that construction workers -- they're
22 really at low risk and therefore they shouldn't
23 be much of a priority in this program, and
24 that's why they've been left behind.

25 And I'm going to talk more about one specific

1 area that we've worked with NIOSH, and NIOSH
2 agrees with, and that is -- and I want to make
3 you aware of -- and the fundamental problem
4 with construction workers is the enormous
5 statistical variance that we have in exposure
6 measures, something that you don't see in any
7 other occupational groups. And it's absolutely
8 critical to everything that's being done in
9 this program when it involves these workers.
10 And by construction workers I mean workers who
11 do all kinds of stuff. Many people think
12 construction workers only build new things, but
13 at DOE most of them spend most of their time on
14 maintenance, repair, renovation, cleanup and
15 demolition work within the facilities
16 themselves.

17 In 2005 CPWR agreed to assist NIOSH to develop
18 a valid model to address construction worker
19 dose reconstructions, and we pulled together
20 this working group, which you can't see but
21 it's very highly-qualified and I think many of
22 you know a number of these industrial
23 hygienists. There are industrial hygienists
24 that have worked on the problem of trying to
25 develop predictable models for construction

1 worker exposures to a variety of toxic
2 substances, not necessarily radiation, however.
3 The key issues that we agreed to work with
4 NIOSH on was to look at are the NIOSH models to
5 estimate radiation exposure valid where
6 exposure data are missing or lacking, and are
7 they appropriate for construction workers.
8 Second thing, is the variance in exposure dose
9 measurements for construction workers greater
10 than the variance incorporated into those
11 models that NIOSH currently uses in its dose
12 reconstruction program. And the third, should
13 the NIOSH prog-- models be amended in any way
14 for construction workers, in light of what we
15 know in terms of variance.
16 NIOSH asked us to focus on the Technical
17 Information Bulletin 18 that had just come out,
18 which deals with trying to develop a model to
19 estimate internal dose, obviously a critical
20 issue in terms of doing dose reconstruction,
21 from external environmental dose -- try to
22 extrapolate that. And within the NIOSH model,
23 these are the sort of criteria that are used to
24 -- to estimate internal dose for -- from --
25 from environmental measurements.

1 The concerns about NIOSH model that our
2 industrial hygienists have had is particularly
3 these three things. Is the breathing rate, how
4 much workers breathe, valid in the NIOSH model.
5 Is the maximum allowable concentration or
6 annual limit intake rate valid that NIOSH uses
7 since construction workers seem to have more
8 episodic and more high peak, short term
9 exposures. And finally, is the dose
10 uncertainty distribution valid, given that
11 construction workers experience such extreme
12 variability.

13 Now I'm just going to show you a couple of
14 examples. These are various places where some
15 of these industrial hygiene professors have
16 done measurements of construction workers.
17 These are workers doing identical tasks under
18 different circumstanc-- under similar
19 circumstances, and yet you can see for each of
20 these -- the boilermakers, which were doing
21 welding, the manganese welding, hot work, which
22 also involves weld-- welding, abrasive blasting
23 and so on -- sand blasting and so on. You can
24 see how wide the range of variation is in the
25 exposure, or how -- what -- wide the exposure

1 range is, for tasks that are seemingly similar
2 and should yield identical results every time -
3 - or pretty identical. This is the kind of
4 range that we're talking about, which is not
5 unusual, but which you don't see anywhere else
6 in occupational safety and health. And Steve
7 Rappaport has looked at this extensively,
8 concluded that when we look at construction
9 workers at least we should use -- be using a
10 geometric standard deviation of 4.34 to
11 estimate the 95 percent confidence interval of
12 the -- the -- of the range of exposure -- of
13 the variance for the exposure. These are just
14 some more of that.

15 Bob Herrick at Harvard did a study for us on
16 asphalt fumes trying to figure out how you
17 could create an ideal model to estimate -- to
18 predict how -- how much of the conc-- exposures
19 to asphalt fumes were actually there. And he
20 found that the best they could do with a model
21 was 40 percent -- estimate 40 percent of actual
22 variance.

23 And John Dement at Duke University has done the
24 same sort of thing based on screening per the
25 data and radiation monitoring data from the DOE

1 sites, and has found pretty much the same kind
2 of thing.

3 I'm going to skip through this stuff. It just
4 shows that the -- the environmental dose for
5 construction workers at Savannah River's --
6 tracks fairly closely production workers, but
7 if you could see the site, when you look at
8 between various construction trades and over
9 time, there is enormous variability and spikes
10 among the construction trades.

11 So out of this meeting and out of this working
12 group, we thought we got a draft agreement with
13 NIOSH, and we looked at first of all the
14 question of whether it's valid. We think that
15 the NIOSH model in general for dose
16 reconstruction is in reasonable concordance
17 with the model that it uses for other workers,
18 although it's inappropriate to exclude
19 respiratory cancers, and they need to make
20 amendments to -- to three things, the breathing
21 deposition, the MAC values and so on.

22 We agreed that the variance should be higher
23 than what NIOSH uses in general. We agreed
24 that with these modifications that are listed
25 here, we felt NIOSH could go forward and

1 estimate internal dose for a large number of
2 the construction workers it has in its files
3 and move forward and close out some of these
4 4,500 cases that were sitting there. Although
5 before all of this could be done, they would
6 have to do some more validation research with
7 regard to individual DOE sites and facilities.
8 But we thought we had an agreement that that
9 was where we're going to move forward; that
10 they would apply this model with the
11 modification that we have said, and where they
12 weren't -- where they couldn't apply it, then
13 the claimants would have to self-select into
14 the Special Exposure Cohort field. That's the
15 only way we thought we could get -- get these
16 cases moved.

17 Now when I met yes-- I saw Larry Elliott here
18 and Jim Neton yesterday, and they said they
19 were reconsidering this because, first of all,
20 OCAS has identified new sources of internal --
21 they've identified new sources of -- where
22 there's lots of internal dose monitoring
23 records for DOE construction workers across the
24 DOE complex, apparently.

25 Now just because they have more internal dose

1 records doesn't mean that they can still use
2 the same model that they have for others. They
3 still have to amend it -- they haven't done
4 that yet -- for the variance that we have among
5 construction workers because there's going to
6 be gaps in that -- in that monitoring records
7 in very many cases, no matter what -- and
8 they're going to have to extrapolate in one
9 form or another from somewhere to fill in those
10 gaps. And they have to take into account the
11 variance that exists when they do that.
12 But Larry Elliott said something more -- else
13 that I thought was very interested (sic). He
14 said that OCAS intends to apply a zero false
15 negative standard to its dose reconstructions,
16 and it's the first time I've ever heard that.
17 And the way he expressed it he said is that
18 we're going to make sure that no claimant is
19 denied a claim because the dose reconstruction
20 was done in such a way that it gave a deficient
21 result. So that's what I conclude is a zero
22 false negative standard.
23 To run a program, I will just say in
24 parentheses, in any health field that has zero
25 negative or zero false negatives I think is

1 just about impossible, so I admire OCAS for
2 undertaking this. But I'm very curious how
3 this is going to happen. And I'm also very
4 curious where this standard comes from because
5 I've never seen any reference to it, and I
6 don't see it existing in, again, the rule that
7 NIOSH operates under.

8 But certainly if OCAS is going to apply this
9 standard, this is the following that has to be
10 done. There has to be an amendment to the rule
11 somehow for this that we'll have a chance to
12 look at, and it also has to do -- it also means
13 that OCAS will have to operate with a level of
14 specificity -- statistical specificity that's
15 100 percent and a negative predictive value
16 that's equal to 100 percent, and the only way
17 that it can do that, in my opinion, is to
18 approve all dose reconstructions. Furthermore,
19 if this is going to be the standard that's
20 applied, then we will insist that this Board
21 and SC-- SCA-- SCA -- Sandy Cohen needs to
22 develop an evaluation model for predictive
23 value like you talked about yesterday. We want
24 to see specificity. We want to see
25 sensitivity. We want to see positive

1 predictive value and negative predictive value
2 in the whole program. We want to see that by
3 DOE site and by type of claimant. Otherwise,
4 you can't uphold this standard. It's nice to
5 talk about it, but you got to -- if this is
6 going to be the standard, then you've got to
7 prove that you're living up to it.
8 More importantly, NIOSH had -- has had now five
9 years to figure out the construction worker
10 problem. This Board has had four years --
11 you've been in existence for four years -- to
12 help figure out this construction problem, and
13 we've not had anything figured out yet.
14 Meanwhile, these claimants wait, either old,
15 sick people with cancer or their survivors,
16 they wait. And that is not right. That is not
17 timely. That is not fair and it's not valid.
18 In conclusion, there are four thous-- I said
19 there are 4,500 workers here -- sitting here.
20 We don't have a model. NIOSH has performed
21 dose reconstructions, as near as we can tell,
22 on some construction workers without a valid
23 model, and we think we should know what's
24 happened with those. And to do that, we think
25 Sandy Cohen needs better expertise on

1 construction worker science, exposure science
2 in particular. And we urge this Board to make
3 this a priority as it reviews the work of
4 NIOSH. Thank you very much.

5 **DR. ZIEMER:** Thank you, Mr. Ringen. The next
6 person on the list is George Berry. George,
7 you can approach either the mike up here or the
8 one in the back, whatever you're most
9 comfortable with. Is George -- okay.

10 **MR. BERRY:** Hi, I'm George. Hello?

11 (Pause)

12 Good evening, members of the Board. My name's
13 George Berry. I was a journeyman machinist at
14 Rocky Flats Plant from '82 to '89, and I am a
15 positive Part E claimant. Prior to that I was
16 a D -- Part D under DOE. And I been waiting
17 many, many years. This is getting ridiculous.
18 I'm here to talk to you about a couple of
19 things. There's so many things I want to touch
20 base on, but it's just too lengthy.

21 I got to talk about altered documents and
22 improper procedures that I saw. Some of it was
23 lack of my knowledge, I agree, but a lot of it
24 was pretty ambiguous readings. And I saw
25 things anywhere from plus or minus 75 percent

1 to who knows what on my readings -- if that was
2 plus or minus 75 percent, what good is my
3 paperwork even reading, you know. That's like
4 -- what? Things like that.

5 I distinctly remember two incidents. One was -
6 - very possibly could have affected my health.
7 I -- I'm -- very good chance I wouldn't have
8 been here today if I wouldn't have been on the
9 ball that day. I was in Building 777 doing a
10 component I can't even discuss, and a --
11 following top secret documentation, and I
12 followed it to the T. It was at a down-draft
13 table. This component should not have been in
14 a down-draft table; it should have been a in-
15 glovebox situation. As soon as that component
16 came to the end procedure of that machining
17 process, it leaked, alarms, donned -- I donned
18 my respirator immediately as soon as I could,
19 in between time trying to tape up this
20 component so it wouldn't leak any further. And
21 at that time, then everybody came running to
22 me.

23 I had no idea what was going on. I was just a
24 young buck. It was 1983, I was like maybe 25,
25 30 years old. And I remember the radiation

1 monitor coming to me and I remember the
2 radiation monitor's name. I don't know why,
3 what, 20, 30 years ago, but I could tell you
4 that man's name right now. I know there was a
5 nasal smear taken, because you don't forget
6 something being shoved up your nose and pulled
7 back out. You know? Come on.
8 I tried to get copies of that through Jim, who
9 is the president of the Local 8031 AFL-CIO
10 Steelworkers, and was -- was -- wasn't -- was
11 unable to get anything from him, and then he
12 passed away on us and that's when Tony took
13 over. And then I went to DOE, and no luck
14 there. Not even the Cong-- Congressman could
15 even get any kind of movement on that.
16 So you know, if I got cancer, how would NIOSH
17 reconstruct a dose that -- that they don't even
18 know how much I received and what the units
19 were at the time of the dose? Are they going -
20 - are they going to ignore this incident
21 completely, or just stick it underneath the
22 carpet just like, you know. This was a very
23 controlled component, and you can't tell me
24 that they didn't know what was going on. Like
25 I'm going to give them at least that much --

1 you know, procedure that they would follow that
2 they would know, just like -- I hope.
3 Anyway, you know, they don't even know what
4 types -- type isotopes I was machining on that
5 component. They don't know what area of the
6 complex I -- I was in. They have no -- no
7 documentation of -- of the incident that
8 happened. How -- how -- how could you guys
9 believe Joe Blow, you know. You -- you --
10 you're scientists and you're -- and -- and who
11 knows what else in -- in very detailed,
12 specific formats you have to follow. I don't
13 blame you a bit. We got to come up with this
14 stuff.
15 This is ridiculous. This is not -- not
16 acceptable. And I just can't believe that we
17 would fight for our country in this way and be
18 scoffed at and played games with and everything
19 else, and it just keeps going on and on and on
20 and -- oh, then, by the way -- gee, we're going
21 to go from DOE to DOL. But in between time you
22 guys get to wait and die. It's a bunch of
23 crap. I'm sorry, it's a bunch of crap. You --
24 you would not believe how many things are wrong
25 with me, and I just keep on plugging and keep

1 on plugging 'cause I'm not going to let the
2 bastards get me. And I'm not saying you're
3 bastards. I'm just saying I'm not going to let
4 the bastards get me, you know? I'm going to
5 keep on plugging. It's -- it's made me really
6 strong, but it's also doppelganging (sic) on
7 me. It's snowballing on me, and sooner or
8 later the Lord's not going to keep me alive any
9 longer. And I don't know if I want to stay
10 alive any longer. It's ridiculous.

11 I had an incident happen to me in Building 776
12 and I gave this lady here the documentation,
13 and I believe there was a -- probably a -- oh,
14 a begruntled (sic) worker that was jealous of
15 me or who knows what, but I was in the -- in
16 the -- 776 doing a job and the pendant came
17 around. I took my part out of the pendant, and
18 underneath that part was a jagged piece of
19 metal. If I wouldn't have been on the ball
20 that day, concentrating 100 percent, I would
21 have been dead right now. How could they allow
22 something like that to even get in an area like
23 that. That is flat out murder, let alone
24 sabotage to Uncle Sam. I don't understand.
25 I was a young kid then, and sure, we have our

1 times, but I never horse-played and I never put
2 anybody else's life in danger, and I had to
3 deal with this.

4 Well, at that -- by that time I said heck with
5 this, I'm not believing nobody and I'm not
6 trusting anybody. So I went and I got on that
7 phone and I called a DOE representative. I
8 says you get your butt down here right now, I
9 got something to show you. Half hour down the
10 road, boom, he was down. He was right down
11 there and I says come here with me, took him
12 over to the glovebox and showed him this
13 pendant that holds onto -- that -- that goes
14 around in a conveyor line that you take your
15 parts out of, and it was a stainless steel
16 container with a jagged piece of metal sticking
17 out of it whilst having a piece of Pu sticking
18 in there that I was supposed to grab out. And
19 gee, by chance we don't have any documentation
20 for that. I don't think so. I don't think so.
21 It's there. They're not that stupid.
22 I'm glad I didn't see it or read it because I
23 probably would have killed the person that did
24 it to me, you know, and there's a good chance
25 that maybe that's why they did that. Which I'm

1 kind of glad, but it's like I hope that person
2 is still alive and still thinking about what he
3 tried to do to me, and God help him --
4 literally, God help him, 'cause that's the only
5 person in this whole universe that's going to
6 help that man -- or woman.
7 Notice on this documentation that I give that
8 girl, there's the documentation down there
9 stating my bioassay reports on termination
10 paperwork that - and -- there's a yellow line
11 crossed across there and it shows an erasure of
12 I believe -- I'm not sure if it was from the
13 hand or forearm or what, but it shows an
14 erasure and a -- and a rewrite, and it showed
15 U-235. Well, that's D-38, okay. Who's to say
16 that that wasn't U-233, which is very, very
17 hot. It's almost so hot it should be in a
18 glovebox. I machined it. I know. That stuff
19 was so screaming hot you could stare at it and
20 it would spark at you, and it was not even in
21 the glovebox in a -- in another building, so I
22 -- I know there was things going on up there
23 that we didn't even know about. And I was too
24 stupid and too naive to understand. That's not
25 a quote. I'm telling you what I saw. I'm

1 saying oh, my God.

2 I was told to put my badge inside my pocket on
3 certain jobs that I ran because oh, they were
4 afraid I might get the badge contaminated or
5 dirty. God forbid that. To heck with my body
6 or my bioassay or my nasal smear. Put your
7 badge in there. It'll be safe.

8 Can NIO-- can NIOSH reconstruct dose for these
9 things? I don't think so. If I got cancer now
10 I wouldn't trust the dose that was recommend--
11 that was reconstructed right. How would they
12 know what I was exposed to, what building I was
13 in, what machine tool I was operating, what
14 radionuclide and elements slash -- brain fart,
15 sorry -- elements and --

16 **UNIDENTIFIED:** Isotopes.

17 **MR. BERRY:** -- isotopes, thank you, were
18 combined in these parts? You have to have
19 certain specifics to come up with a certain
20 answer. It doesn't take a rocket scientist.
21 I worked in all -- all the stuff I did over
22 there was in special orders. I don't even know
23 all what -- what it was. It was elements that
24 I've never heard of, and never will ever hear
25 of, you know. So just remember, the facility

1 was so contaminated that the FBI came up there
2 and raided it and -- boom -- five, six years,
3 it's gone. Why? Shut down and dismantled,
4 boom -- 5,000, 6,000-person complex, 200-
5 some,000 acres and all of a sudden this place
6 disappears? I'm sorry, I wasn't born
7 yesterday.

8 What other nuclear weapons facilities has this
9 happened to? Gee, I don't know, Lawrence
10 Livermore? No, it's still cruising.
11 Tennessee? Kentucky? All those, they're still
12 cruising, doing great. Ain't nothing been torn
13 down, pulled away from there. They're not
14 hiding nothing. So it looks to me -- I'm just
15 a country bumpkin right now, but it looks to me
16 like they were hiding something and they didn't
17 want someone to find out.

18 I guess that's it. I'm sorry to have been so
19 blunt to you, and sometimes I was real
20 arrogant, but I'm dying. You guys got to get
21 this crap straightened out, man. This ain't
22 going to work much longer. I'm on my last
23 legs.

24 **DR. ZIEMER:** We appreciate your comments,
25 George. Thank you.

1 **MR. BERRY:** Thank you very much.

2 **DR. ZIEMER:** Now we have Kay Barker. Is Kay
3 here? Yes, please.

4 **MS. BARKER:** Good evening, Dr. Ziemer and
5 members of the Board. I'm Kay Barker, and I'd
6 like to talk to you about the accuracy of dose
7 reconstruction.

8 My late husband, Lawrence Barker, worked at
9 Rocky Flats from December 1, 1958 to February
10 28, 1986. He died September 2nd, 1994 after
11 two years of hell from colon cancer.

12 I requested the worksheets from NIOSH, and Mr.
13 Sundin was kind enough to send me a copy of all
14 the worksheets NIOSH used to reconstruct dose.
15 I know I'm not the most educated woman, but I
16 can certainly read dates. I was able to pick
17 out dosage assigned for dates that Lawrence
18 never worked at Rocky Flats. To remind you, he
19 worked from December 1, 1958 to February 28,
20 1986.

21 In the booklet before you, you will notice that
22 Lawrence has values assigned for years 1956 and
23 1957, when he did not begin work till December
24 1, 1958. He was dying due to his colon cancer
25 in 1993. How can NIOSH say their dose

1 reconstruction for Rocky Flats claimants is
2 accurate when they can't get the dates of
3 employment correct? You call this data
4 reliability?

5 Mine is not the only case. I have a dose
6 reconstruction from another claimant, which is
7 also 'cluded in the booklet. He worked at
8 Rocky Flats from May 4th, 1981 to March 31st,
9 1990. You will notice that the year 1980 is
10 listed on page 3 of his information, and that
11 is towards the back of the booklet. Granted,
12 no dose is assigned for 1980, but you will also
13 notice no dose was assigned for 1981, either.
14 But the mere fact that 1980 is listed, in my
15 mind, shows that NIOSH is not accurately
16 reconstructing dose.

17 Additionally, even the NDRP project included
18 values for neutron dose for 1956 in my
19 husband's reconstruction. That was a full two
20 years before he started working at Rocky Flats.
21 From what I have heard listening to the
22 meetings, the NDRP is given a lot of weight in
23 reconstructing dose for the early years. It
24 doesn't seem to me that it is accurate, either.
25 I don't accept any data that Rocky Flats has

1 for the workers. In my booklet I have the
2 health scientist data system urinalis (sic)
3 detail, with no values whatsoever for any
4 radionuclide. I find it impossible to believe
5 that a UA was not reported or taken for the
6 years 1968 through 1971, but were available
7 from 1975 through 1985. And this is not an
8 isolated case.

9 I have an e-mail in my booklet from Jack
10 Wedding, a supervisor of my late husband, that
11 states (reading) I notice that the dates of
12 1964 through 1969 were omitted. Those missing
13 records contained four different times I had to
14 have my body counted. Also the cleansing I had
15 after the 1965 fire while in the hospital. In
16 fact, all records containing information about
17 my contamination on that date are not
18 available.

19 Jack couldn't make it to this meeting due to
20 his frail health.

21 I also find it hard to believe that my deceased
22 husband's first urinalis (sic) value was not
23 until 1975. He worked in hot areas for at
24 least three years. I would think that
25 considering the lack of safety protocol, the

1 early years, that he would have had some kind
2 of reading for his UA. All I have is zeroes,
3 especially his early years when he was a
4 clerk/packer.

5 From day one of my claim I've always said that
6 Lawrence was hot during his first three years
7 at Rocky Flats while working as a clerk/packer.
8 Lawrence even reminded me of this on his
9 deathbed. He wouldn't go into any details
10 about it, only to say that the records were
11 accidentally on purpose destroyed at the
12 Federal Center here in Denver, Colorado. The
13 only incident report that NIOSH has is the
14 health physics report of involvement dated
15 September 26, 1962. That's also in your
16 booklet. The report states that Lawrence
17 received a cut on the anterior surface, medial
18 area, of his second finger, left hand, on a
19 piece of glass in Building 901. But there is
20 no Building 901 in the site profile. Building
21 910 is listed, but wasn't built until 1977.
22 Building 991, however, is another story. It is
23 a hot building, and was built in 1952. Did
24 NIOSH use 910 or 991 in their calculation?
25 NIOSH claims this is data reliability?

1 You should also be made aware that Lawrence and
2 Wally Gulden were instructed by management to
3 leave their badges in the rack or desk drawer
4 while doing their time studies and audits in
5 hot areas. How's that for data reliability?
6 From what I've learned from other coworkers
7 doing the time studies and audits, you were not
8 issued protective clothing while doing work in
9 hot areas. I have an excerpt from Jackie
10 Beavers*' letter that Terrie Barrie will be
11 presenting that she has in her handout, who is
12 unable to attend this meeting due to health
13 problems. Film badges were stored on a
14 dosimeter storage rack. Dosimetry became
15 suspicious of high doses received by production
16 workers. These production workers were accused
17 of purposely over-exposing their badges by
18 placing them in gloveboxes. If the badge
19 exceeded the authorized limit for the period,
20 production employees would be disciplined. In
21 addition, they would not be eligible for
22 overtime. As a result, some of the operators
23 didn't wear their dosimeters all the time, or
24 they'd put the dosimeter in the back pocket of
25 their coveralls in order to avoid disciplinary

1 actions.

2 There were periods of time when individuals
3 wore dosimeters, but the quarterly dosimeters
4 indicated no current data available, NCDA. It
5 is uncertain if the dose received during the
6 period of time represented by NCDA was recorded
7 in the dosimetry record. Contaminated
8 dosimeters were often replaced with new
9 dosimeters.

10 Two chemical operators with many years
11 experience in Building 771 process area left
12 their positions to work in the dosimetry
13 department. The dosimetry person training them
14 told them if badges returned readings higher
15 than a certain number they were instructed to
16 give the operator zero counts, or no current
17 data available counts. Is this data
18 reliability?

19 Also the counts were returned on a long dot
20 matrix sheet and operators were often required
21 to initial the counts as a sign of acceptance
22 of the counts in order to receive their
23 paychecks. All zero readings and no current
24 data available readings had to be accepted by
25 the operators, even when they knew better, and

1 initialed in order to receive a paycheck. One
2 woman resigned her position from Rocky Flats
3 after many years in an extremely hot process,
4 such as molten salts and et cetera. She kept
5 her badge with her at home and requested
6 dosimetry personnel come to her home to pick up
7 the badge. It took many months of dosimetry
8 personnel to come to her home to pick up the
9 badge, yet she received counts for the very
10 same badge that was still in her possession at
11 home. You call this data reliability?
12 I would also like to bring to your attention
13 the fact that Lawrence was a machinist during
14 the 1970 strike. No dose was assigned for that
15 period. Where is the data reliability here?
16 NIOSH shows that Lawrence had 316 incidences of
17 exposure, with 15 incidents taking place in
18 years before he was employed at Rocky Flats.
19 Now is that data reliability?
20 I know you can't think of these claimants as
21 humans but only as cases, but I had to include
22 in Dr. Ziemer's booklet, at the very end, two
23 photos of my late husband, Lawrence Barker.
24 The first photo is of a healthy Lawrence
25 Barker. The second photo is of Lawrence in the

1 final stages of his fight against colon cancer.
2 I wanted you to be able to put a face of a
3 dying employee in your mind while making your
4 decision on the SEC petition.
5 I would like to say that Terrie Barrie informed
6 me and SC&A, as well as Mr. Sundin, about all
7 the dosage given to Lawrence during his years
8 he didn't work at Rocky Flats. Mr. Sundin
9 informed Terrie that the claimant should
10 contact NIOSH and explain in detail what that
11 person had. Terrie did contact me, and I
12 informed her that I would not call NIOSH to
13 discuss this as I do not trust them. When I
14 can find all these dates with dosages that
15 Lawrence didn't work at Rocky Flats, how can I
16 believe that NIOSH can reconstruct any dose
17 accurately? If I can find problems of false
18 data, how do we know that other claimants don't
19 have the same problem? My claim has even gone
20 through NIOSH twice, as it was -- as it just
21 finished a rework in October of 2005. If they
22 can't find this problem the first time through,
23 you certainly would have thought it would have
24 been noticed the second time. But no, it
25 wasn't. What else has NIOSH done wrong on this

1 claim? I hate to think of how many other
2 claims are out there with inaccurate dates and
3 dosages, and to think NIOSH says they have data
4 reliability.

5 In all the meetings I've been listening to I've
6 never heard Karin Jessen say a word, but
7 instead Roger Falk is always addressed. Why?
8 In conclusion, I question the validity of
9 anything in my late husband's dose
10 reconstruction. I respectfully request that
11 you consider this information that I have
12 documented for you as an example of why you
13 must grant the Rocky Flats SEC petition. I
14 think all of (sic) the people who are dying
15 daily, just waiting for your decision.
16 Thank you.

17 **DR. ZIEMER:** Thank you very much, Kay, for
18 sharing that with us. And we also now have
19 Terrie Barrie.

20 **MS. BARRIE:** Good evening, Dr. Ziemer and
21 members of the Board. My name is Terrie Barrie
22 and I'm a founding member of the Alliance of
23 Nuclear Worker Advocacy Groups and advocate for
24 some of the Rocky Flats claimants. I am here
25 tonight to voice my disagreement with NIOSH's

1 opinion that they can reconstruct dose of the
2 Rocky Flats claims.

3 First I must state that I feel that NIOSH could
4 not have handled this SEC petition in a more
5 deplorable manner. They found every way to
6 circumvent Congressional intent and have the
7 evaluation report delivered to you, the Board,
8 within the 180 days. The report was issued
9 only 20 days before this meeting, and it placed
10 additional pressure on the Board and its
11 contractor, Sanford Cohen & Associates.

12 Data integrity is the key issue. Yes, NIOSH
13 may possess the scientific expertise to
14 reconstruct dose, but that's assuming that all
15 of the monitoring data was correct and
16 available to reconstruct the events as they
17 occurred. But if they began with faulty data,
18 the end result will be in error. The maxim
19 garbage in/garbage out applies to Rocky Flats.
20 The information you'll hear tonight from the
21 audience I hope will convince you to ignore
22 NIOSH's assertions and grant SEC status to the
23 Rocky Flats facility.

24 I believe that the site profile for Rocky Flats
25 is flawed. There's a serious conflict of

1 interest with the internal dose Technical
2 Bulletin Document. On December 3rd, 2003 I
3 notified Mr. Larry Elliott of this conflict.
4 Roger Falk, a member of the Oak Ridge
5 Associated Universities, was -- which is
6 charged with developing the site profile, was
7 listed at that time the author of the TBD. Mr.
8 Falk was the Rocky Flats internal dosimetry
9 program administrator. He was also an expert
10 witness for Rockwell International in my
11 husband's workers compensation claim. It was
12 not only upsetting that Mr. Falk testified
13 against the claim, but what he testified to. I
14 do not believe that the TBD is accurately or a
15 trustworthy account of the internal dose that
16 the Rocky Flats workers received.
17 I understand now that Mr. Falk is cited as a
18 site expert, but -- and -- and also for both
19 the TBD and the evaluation report, but he is
20 the O-- right -- excuse me, I'm sorry about
21 that. He -- he's cited as the site expert, but
22 Karin Jensen (sic) is listed as the author.
23 However, in all the meetings that I've been
24 listening in to, the teleconferences, it's
25 Roger Falk that is answering the questions, not

1 this Ms. Jensen. Is there a face behind this
2 name? Who actually did the writing for the
3 evaluation report and the SE-- and the site
4 profile?

5 I've received no response from Mr. Elliott. I
6 would have happily given him -- when I advised
7 him of this conflict. I would have happily
8 given him the workers compensation claim number
9 to NIO-- so NIOSH could request a copy of the
10 transcript and verify my assertions. Because
11 Mr. Elliott did not contact me, I never felt
12 comfortable offering NIOSH additional
13 information concerning the site.

14 It appears the same philosophy of ignoring
15 offered information is still prevalent with the
16 SEC process for the Rocky Flats petitioners.
17 Over 20 people submitted affidavits to Local
18 8031 to support the petition. Three additional
19 claimants submitted testimony on behalf of the
20 non-production workers. Not one of them has
21 been interviewed by NIOSH. Yet according to
22 the Y-12 evaluation, NIOSH conducted several
23 interviews with numerous Y-12 employees.
24 The site profile's also inaccurate when it
25 comes to Building 886. This was a criticality

1 lab. The site profile states simply, and I
2 quote, short-lived fission products were
3 produced and none were indicated as having been
4 released to the work or outdoor environment,
5 end quote. Maybe the short-lived products
6 didn't enter the environments, but uranium and
7 plutonium did. I have a handout over there,
8 too, and in that is a -- an example from the e-
9 book called "History of a Criticality
10 Laboratory" written by Bob Roth*, senior
11 experimenter, and he asserts that there was 39
12 anomalous events in over 30 years at that lab,
13 two of which involved worker contamination.
14 Because of this, I question the accuracy of the
15 site profile for the other buildings.
16 I also question NIOSH's consistency in
17 evaluating SEC petitions. This arose in my
18 mind when I listened in on the April 12th Board
19 working group teleconference. I remember
20 hearing the question raised about thorium being
21 present at Rocky Flats. Since a transcript of
22 that teleconference has not been posted yet to
23 the web site, my recollection may be faulty, so
24 please feel free to correct me. I remember
25 that NIOSH stated that they could not

1 reconstruct dose for Y-12 for thorium because
2 they did not have enough data. I am not even -
3 - but they could reconstruct dose for Rocky
4 Flats workers because they can utilize the
5 gross alpha bioassay measurements.

6 I am not even close to being a scientist, but
7 if NIOSH cannot reconstruct dose for employees
8 who were exposed to thorium at Y-12, how could
9 they possibly determine they can for Rocky
10 Flats?

11 NIOSH stated on page 21 of their report that
12 zero results were treated as zeroes because no
13 better information was available. It is
14 incomprehensible to me that a worker would have
15 zero exposure while working at the Flats. In
16 fact, page 14 of the evaluation report states
17 that after the May 1969 fire that Building 771,
18 776 and 777 were grossly contaminated with
19 plutonium. Kay Barker has stated that her
20 husband's and his boss's records show a gap for
21 that year. I have another claimant whose
22 records also show a gap for 1969. How is that
23 possible that there is no recorded dose? Were
24 these records destroyed, as some have alleged?
25 This program is supposed to be claimant

1 friendly. NIOSH should have concluded that
2 since there is no better information to explain
3 the zeroes that they cannot reconstruct dose,
4 instead of assuming that there was no dose
5 received by the workers.

6 A few claimants could not tonight -- could not
7 attend tonight's session and asked if I would
8 read their letters into the record. Time will
9 not allow me to read them in their entirety,
10 but I would like to read some excerpts. The
11 first is from Jackie Brever*, who holds a
12 master's degree in environmental science, and
13 Ron Avery. They testified under oath to these
14 facts, either before the Rocky Flats grand jury
15 or the recent Cook Landowner lawsuit, and I
16 quote, (reading) there was a campaign where
17 americium-241 was purified and sold. Operators
18 who were very good at this operation were
19 rarely rotated from the process and received
20 zero counts from their dosimetry badges, and
21 were told by the dosimetry personnel that high
22 counts were impossible for buildings on the hot
23 side. Therefore operators started each new
24 year with zero counts from the dosimetry
25 department. Background was raised on a

1 constant basis in all sampling and counting
2 areas until the numbers came back right. There
3 were several times when the Rocky Flats
4 personnel had to go to a person's home to
5 decontaminate the home, the belongings in the
6 home and his or her family. End quote.

7 I have an e-mail in the handout dated July
8 25th, 2005 from a woman who was helping her
9 husband with his late father's claim. She
10 substantiates the last quote from Ms. Brever,
11 and that e-mail states (reading) they came to
12 the home in protective suits and Geiger
13 counters. My husband says they went through
14 every room, the cars, the garage, and also used
15 Geiger counters on not only his dad, but his
16 mom, his little brother and himself. How does
17 NIOSH plan to reconstruct dose in these
18 instances?

19 Finally I would like to raise an issue that
20 does not have a direct bearing on the SEC
21 petition, but does affect every claimant.
22 Section 7.5.1.7 of the evaluation report states
23 that DOL has considered -- DOL also considers
24 the exposure of a worker to the combination of
25 toxic chemicals and radiation under Part E of

1 EEOICPA, end quote. DOL has in fact set the
2 probability of causation for the radiogenic
3 cancers at the same standard as NIOSH; that is,
4 greater than 50 percent. Mr. Peter Turcic in
5 his April 11th letter states, and I quote,
6 NIOSH developed and maintains computerized set
7 of cancer risk models used by DOL to calculate
8 the statistical probability that the covered
9 employee's cancer was at least as likely as not
10 caused by exposure to ionizing radiation. At
11 least as likely as not. But the law for Part E
12 claims sets a different and, in (inaudible)'s
13 opinion, lower standard for Part B claims. The
14 law sets the probability of causation for E
15 claims, and I quote, it is least at likely as
16 not (sic) that the exposure to a toxic
17 substance at the Department of Energy facility
18 was a significant factor in aggravating,
19 contributing to or causing the illness.
20 Mr. Turcic's letter continues, and I quote, HHS
21 regulations also provide for NIOSH to add,
22 modify or replace cancer risk models as
23 necessary on the basis of new evidence and/or
24 improved scientific understanding. DOL
25 encourages claimants to contact NIOSH regarding

1 its cancer risk models and the rule-making
2 process that guides the POC determinations.
3 End quote.

4 So what I see here are the two principal
5 agencies telling the claimants that the other
6 is responsible for setting the standard for
7 cancer claims under E. It would be very
8 helpful if the Board tomorrow would ask NIOSH
9 and DOL to clarify this during their program
10 update session.

11 I want to thank you for your time, hard work
12 and consideration. I also want to express my
13 gratitude to Tony DeMaiori and all those who
14 helped submit the petition to the Board. Thank
15 you.

16 **DR. ZIEMER:** Thank you very much. Next I have
17 Diane Jensen -- I believe it's Jensen. Is it
18 Diane Jensen? Thank you.

19 **MS. JENSEN:** Good evening. I'll begin by
20 apologizing 'cause I had not planned on
21 speaking this evening. When I came in to talk
22 to a representative today about my case, I
23 heard that NIOSH is recommending against
24 special cohort status for Rocky Flats
25 employees, the logic being -- or their lack of

1 support is based on their ability to perform
2 dose reconstructions for former Rocky Flats
3 workers. My concern is that the records used
4 for the dose reconstruction are inaccurate,
5 incomplete and blatantly fraudulent.
6 Readings in past history for myself came back
7 with dose reports of zeroes in times when I
8 worked in high rad areas such as inside a vault
9 for an entire two-week periods during
10 inventories. In reality, my actual reports
11 have come back to me saying no data available,
12 but were as zeroes on my dose reconstruction.
13 At the time I questioned this, this was
14 explained to me that the badges were sometimes
15 too dark to read due to high doses. They still
16 settled with looking at them as zeroes. And I
17 was supposed to feel better that they used a
18 39, because 40 was the cutoff for too low to
19 read, so I should be happy they credited me
20 with 39. At other times dosimeters were worn
21 beneath our lead aprons so they did not capture
22 our body dose.
23 Additionally, working in plutonium production
24 area meant 360-degree exposure, not front
25 torsal (sic) with the badge located on my

1 lapel. I was surrounded by plutonium
2 production processing lines.
3 I'd also like to address the issue of
4 incomplete. I received radiation dose for more
5 than 20 years. The first eight years were as a
6 production floor, the remaining years were as
7 technical support. As technical support I was
8 considered admin or office personnel. Badges
9 were pulled from the office personnel, even
10 though our offices were in the production
11 buildings. My office wall was adjacent to an
12 abandoned americium line. When the security
13 station was installed in Building 771, metal
14 shielding had to be set up to prevent the Pu
15 detector alarms from going off in the
16 surrounding area. My desk was located against
17 that wall.
18 Area monitoring records for the year 2000 list
19 the adjusted dose as 826 millirem per year --
20 note that this is adjusted -- for 2,000 work
21 hours per year. For those of us who were
22 salaried and working 45-plus hours per week,
23 this figure is far too low. And though the
24 figure is more than 800 percent higher than the
25 dose assigned to an office worker, office

1 workers were still assumed to have a dose of
2 less than 100 millirem, and they felt safe
3 pulling our dosimeter badges.

4 I feel they're also fraudulent. In addition to
5 being incomplete, inaccurate, the numbers were
6 manipulated to meet the corporate bonus
7 structure. Bonuses were realized by reducing
8 the number of people in the dosimetry program,
9 even though the maintenance shops and offices
10 were known to have doses as high as 2,844
11 millirem per year -- and that's the electric
12 shop in 371 -- dosimeters were still pulled
13 from office personnel who worked in those
14 areas.

15 Additionally, rooms such as the men's and
16 women's restrooms were known to have doses
17 nearing 300 millirem adjusted dose per year.
18 These numbers were again adjusted to reflect
19 one-sixteenth of a work day, because people
20 only spend ten minutes twice a day in a
21 restroom.

22 My office was adjacent to the locker room for
23 several years. High level drum storage was
24 immediately below my office. And when it
25 became known that the area had a high dose,

1 dosimetry badges were to be placed in my office
2 to -- to avoid getting high readings from these
3 badges, the badges were placed midway in the
4 reporting period, and moved midway in the next
5 reporting period. Those records reflect only
6 one-half of the actual dose received per pay
7 period.

8 Due to the bonus structure of rewarding reduced
9 doses, multiple tactics such as reporting half-
10 period doses as the actual period dose,
11 adjusting doses to reflect minimum time period
12 of occupancy, and disregarding high doses as
13 false or unreportable were methods used to
14 obtain bonuses. The reward structure destroyed
15 the accuracy of the dose reporting system. And
16 I do want to note that people talk about the
17 old records being inaccurate. I'm talking
18 about things that happened in 2000 and after.
19 NIOSH's position that they can accurately
20 reconstruct employee doses with this faulty
21 information cannot be logically supported.
22 This position is unfair to employees who
23 received substantial doses many times higher
24 than the recorded dose.

25 And I'd like to thank you for hearing us this

1 evening.

2 **DR. ZIEMER:** Thank you very much. Dennis -- is
3 it Rowan?

4 **MR. ROMERO:** Romero.

5 **DR. ZIEMER:** Romero, okay. Hard to read.
6 Thank you.

7 **MR. ROMERO:** My name's Dennis Romero. I worked
8 at Rocky Flats for 18 years. I started out as
9 a production loader in 444 doing BE, uranium,
10 titanium, silver, gold on the parts. Times
11 we'd be back in the area -- in the old days
12 they used to eat back there in beryllium
13 process area. They'd smoke back there, do
14 anything you did on the outdoors in the back
15 area, and then in time they changed the rule.
16 There was days that we'd have air reversals in
17 the building -- just the fans would go in
18 reverse, and you'd have an alarm for everybody
19 to evacuate the back area, and you'd have dust
20 settling out of the building -- BE? Who knows.
21 Maybe take you a half-hour, 45 minutes to get
22 past the step-off pad, and meantime you're
23 breathing this air to get past the step-off pad
24 to get out to the cold area. That went on
25 constantly out there for beryllium.

1 Then I got moved to Building 779, became an
2 RCT, did that for 12 years. We started doing
3 D&D work in 779. Everything was procedurally
4 driven during production days and then we went
5 D&D. It was procedurally driven in the
6 beginning to follow certain guidelines on how
7 we dismantle boxes, how we dismantle piping,
8 and if it wasn't right we'd shut the job down
9 and we'd elevate the job to better PPE, better
10 respiratory protection, and the job would go
11 on. And based off DAC levels, divide their
12 concentrations of plutonium in the air, that
13 would determine what protections we would have
14 as far as respirators. An (inaudible)
15 respirator, which is 50 DAC, was our protection
16 factor, or 1,000 for supplied air or PAPRs.
17 When we exceeded those numbers, the jobs would
18 stop. We would evaluate -- do we need to
19 upgrade our protection factors to a higher
20 protection factor respirator or supplied
21 breathing air.

22 As things turned out, because we couldn't keep
23 the DAC levels down we would do supplied
24 breathing air in tents -- which was, to me, the
25 best way to -- D&D ability. You got outside

1 air, supplying air to a man to do work in a
2 high DAC atmosphere. But it takes a long time
3 to get a person in and out of supplied
4 breathing air. It's time-consuming. It's hard
5 on the worker. They deemed that PAPRs, which
6 is a Powered Air Purifying Respirator with a
7 motor that pushes air through the canister,
8 gives you 1,000 protection factor, which they
9 felt we could do the job in that and still be
10 safe. If it hit 1,000, we would stop work and
11 try to evaluate how we can keep the DAC levels
12 down.

13 But in time, because you couldn't keep the DAC
14 levels down, they started tak-- changing the
15 protection factors. Staying being 1,000, and
16 our limit was 1,000 on-site for PAPRs
17 protection factors, they felt that at 1,000 DAC
18 we was protected. But then they started
19 exceeding and go to 10,000 DAC, 100,000 DAC,
20 even up to a million DAC. How much of that's
21 getting through the respirator? Who knows.

22 There's times the workers would wear that
23 respirator for eight hours. He'd come out
24 sweaty, canisters sweaty, saturated with sweat.
25 Everybody knows the efficiency of the canister

1 -- or the respirator drops because it's wet.
2 What's the efficiency of the respirator now and
3 is he breathing in? Management wouldn't do
4 nothing about it.
5 We used to do PIF, protection -- well,
6 potential intake factor limits where if we
7 exceeded the protection factor they would do
8 nasal/mouths on people. They would do
9 bioassay. They would do fecal. If it got high
10 enough, they would do body counts to see what
11 this person was getting into it. It takes
12 time. It takes money. You've got to shut a
13 job down. Got to the point -- they weren't
14 doing PIF, potential intake factor, worksheets.
15 They weren't doing those because they didn't
16 want to know what the levels were.
17 The DAC levels were exceeded. They knew it;
18 they didn't care. They didn't make people do
19 bioassay or fecal. What's these people's --
20 breathing in? The dosimeter's not going to
21 show you that information. And that went on
22 constantly.
23 Towards the end I got into doing final survey
24 on 771, which you know is the most contaminated
25 building on site. They would deem -- the rad

1 engineers would deem certain areas to be cold.
2 Like this room, they'd say this room is --
3 certain areas are for -- are cold. As an RCT
4 we had to go do final survey on it, which is
5 the direct frisk of the building so we could
6 release the building so they could tear it
7 down. Your black line there, we'll say that's
8 a rad area. Workers are in there working in
9 respirators. Rad engineer deemed us out here
10 'cause we wasn't affected by that job, we
11 didn't need no dosimeters. We didn't need
12 respirators. But those men in that area had
13 cams, they had air samplers, respirators, PPE.
14 Cams would go off -- evacuate the area. We're
15 over here working. Of course we'd have to
16 evacuate, but what was we exposed to? We
17 didn't have respirators on. We didn't have
18 dosimeters. And the areas they was working on
19 at that time was the infinity room. If you
20 know anything about the infinity room, that was
21 a very highly contaminated room. They were
22 cutting up the concrete floor from the infinity
23 room, which was an area -- million dpm. But
24 because we wasn't part of that job, we wasn't
25 required to have any of this protection.

1 Where's your information? It does not exist.
2 The plant is closed. It's gone. They say it's
3 cold. The place is not safe. There's still
4 highly contaminated areas out there. The
5 public is at risk now, besides the workers that
6 were there. But now the public's going to be
7 at risk because that place is going to reach up
8 and bite somebody in the butt down the future
9 because it's still very highly contaminated,
10 and something needs to be done about it and the
11 public needs to know.

12 **DR. ZIEMER:** Thank you, Dennis. Then Richard
13 Ostrom. Richard.

14 **MR. OSTROM:** I didn't come prepared with any
15 paper to read from, so I'm just going to give
16 you a few of exper-- experiences that I had. I
17 was an assembler in Building 707 and 776, 777
18 between 1982 and 1992. The experiences I want
19 to relate, it won't take very long to do so,
20 but it verifies what has already been
21 discussed.

22 When I first started there the dosimeter badge
23 was supposed to be worn on the top of -- of
24 your chest, right about in here (indicating).
25 And then when we wore our lead vest, then we

1 were supposed to be putting that dosimeter
2 badge behind the vest in order to protect it
3 from picking up more count. Later on down the
4 road we wound up -- we had to put a vest in
5 front and a vest behind because we're getting
6 blasted so much from the radiation.
7 That idea went away because somebody came up
8 with the idea that now we have that radiation
9 bouncing between two lead vests and we're going
10 to keep it right in here (indicating).
11 In summation to all this, I after a while just
12 got to feeling like a lab rat, and that's
13 pretty much all I can say about it. Thank you
14 very much. I appreciate you --
15 **DR. ZIEMER:** Thank you very much. I'd like to
16 call on Michelle -- I think it's -- I'm having
17 trouble reading the last name -- R-o-b --
18 **MS. DOBROVOLNY:** It's Dobrovolny.
19 **DR. ZIEMER:** Okay.
20 **MS. DOBROVOLNY:** Michelle.
21 **DR. ZIEMER:** Okay, Michelle. Thank you.
22 **MS. DOBROVOLNY:** My name is Michelle Dobrovolny
23 and I appreciate you sticking me in here. I
24 actually am here against doctor's orders. I
25 have pneumonia for the third time. But I am a

1 Rocky Flats employee and I am sick. And I did
2 have a speech written and I've decided just to
3 go from the hip because I've heard a lot of
4 people speak here today and I think they've
5 spoken very well, and they've spoken for the
6 people and the claimants.

7 I have fought for six times to get my claim
8 through. I'm on my seventh currently. Just
9 because I haven't been diagnosed with cancer,
10 even though I have the condition, I am not
11 entitled. But yet Rocky Flats deemed me
12 disabled. I'm not entitled to Department of
13 Lab-- workmen's compensation. I live on \$1,400
14 a month and raise three teenaged sons. That's
15 not how I looked for my life at the age of 41
16 years, and it is a very difficult thing to
17 fight against a corporation and a company who
18 continually (inaudible) you down.

19 I've watched five family members die from Rocky
20 Flats of cancer. I have one right now, a
21 cousin, who is in bed dying, expected not to
22 make it to the end of the week. I had a
23 father-in-law that I nursed to death, lung
24 cancer. And their families are still fighting
25 for the compensation package. It's not right.

1 You guys hold a lot of power in your hands for
2 our lives, and I hope that you take into
3 consideration that our lives are valuable and
4 they're important. And they -- we deserve to
5 live each and every day to the best of our
6 ability with what assistance we can. I was
7 exposed out there. I was in administration. I
8 was in hot areas. I know what this young lady
9 was speaking about -- dosimetry, but my
10 readings come back zero. I worked -- I was
11 salaried, worked sometimes 60 hours a week, in
12 and out of the hot areas. But because I was
13 considered administration, I wasn't given the
14 same dosimetry rights as the other workers who
15 worked with the plutonium. But I'm sick.
16 I don't -- my life expectancy is maybe nine to
17 ten years, and I'm 41 years of age. What were
18 you guys doing at the age of 41? Were you
19 looking towards your death? Think about it.
20 Thank you.

21 **DR. ZIEMER:** Thank you, Michelle. We thank you
22 for coming under very difficult circumstances
23 indeed.

24 Judy Padaya -- Padeyea --

25 **MS. PADILLA:** Padilla.

1 **DR. ZIEMER:** -- Padilla.

2 **MS. PADILLA:** Good evening. My name is Judy
3 Padilla. I'm nervous, sorry. I just have one
4 question, and it regards the February 18th,
5 2006 article that was in the *Rocky Mountain*
6 *News*, and it says (reading) Program for sick
7 nuclear workers targeted for cut.
8 It says (reading) The Bush administration has
9 proposed cutting \$686 million from the program
10 to aid Rocky Flats and other nuclear weapons
11 plant workers who were sickened on the job by
12 radiation and toxic chemicals. That proposal
13 has U.S. Representative Mark Udall and Senator
14 Ken Salazar of Colorado worried that thousands
15 of people who put their lives on the line to
16 build nuclear weapons will be left out in the
17 cold for lack of funds. This amount represents
18 44 percent of the total budget.
19 And I would just like to know from the Board
20 your comment, please.

21 **DR. ZIEMER:** To my knowledge, that proposal has
22 not gone anywhere in Congress, but I -- I'm --
23 I can't say beyond that. I don't know where it
24 is exactly. I've heard the same thing. We
25 have no -- I don't think we have any direct

1 information on it more -- I've seen the news
2 articles. I'm not aware that it's going
3 anywhere. Can anyone comment? I don't believe
4 it has occurred and -- it certainly hasn't
5 occurred. Maybe some of the Congressional
6 people can explain where that is.

7 **MR. HILLER:** The reference in the article is to
8 a discussion between the Office of Management
9 and Budget and the Department of Labor, and we
10 are watching that closely. There are many
11 members of Congress from both parties, both in
12 the House and the Senate, who are very upset by
13 that proposal. I -- I -- we haven't seen an
14 effort yet to implement that -- that proposal,
15 but we're watching closely. There -- there's
16 been one hearing that has been conducted in the
17 House of Representatives. There has been I
18 think a suggestion that there may be another
19 hearing. All I can tell you is that there are
20 a lot of people watching who are strongly
21 opposed to that and you'll hear a lot more if -
22 - if there is any effort to move that forward.

23 **DR. ZIEMER:** I suspect we'll all be relying on
24 our Congressional people to -- to handle that
25 issue.

1 **MS. PADILLA:** The article continues, (reading)
2 Two Colorado members of Congress say they fear
3 the administration intends to implement the
4 proposed budget cut by denying a petition by
5 Rocky Flats workers seeking to grandfather into
6 the program everyone with certain cancers.
7 That is applicable to our proposal that we get
8 the cohort status.

9 It further says (reading) The compensation law
10 allows for such petitions to be approved when
11 radiation records at a particular site are so
12 sketchy that workers can't possibly prove a
13 connection to their illness.

14 I think that is so appropriate to this meeting.
15 Thank you.

16 **DR. ZIEMER:** Thank you. A.W. I'm not going to
17 try to pronounce the last name; I'm having a
18 hard time reading it. I figure A.W. will work.
19 Right?

20 **MR. DEMAIORI:** Absolutely. Good evening, Dr.
21 Ziemer and members of the Board. My name's
22 Anthony William DeMaiori. Everybody knows me
23 as Tony DeMaiori. I'm the petitioner on behalf
24 of the United Steelworkers. I'm the ex-
25 president of Local 8031, represented the

1 nuclear weapons workers at the former Rocky
2 Flats site.

3 I'm here tonight not to give a speech, that's -
4 - or even a presentation, so I'm going to let
5 everybody down. The United Steelworkers have
6 been invited to make their presentation in
7 front of the Board tomorrow morning from --
8 anywhere from 8:30 till noon, I believe, if
9 that's correct. That's -- and so I'd like to
10 invite everybody here to please come back
11 tomorrow and to be present for our
12 presentation. We put a lot of time and effort
13 into it and I will spend a minute or so
14 thanking all the people that have helped us put
15 this petition together.

16 Everybody needs to know that everything we put
17 in that petition was volunteered to us. Dr.
18 Bob Biceline* gave us 38 years of experience at
19 Rocky Flats; Dr. Goldsmith, who did
20 epidemiology for the Department of Energy in
21 Washington, D.C.; Steve Baker, internal
22 dosimetry, 28 years; Jennifer Thompson put the
23 petition together for us, she did all the
24 technical writing that was absolutely donated
25 for free. That's everything that we put

1 together we -- we collected from site experts,
2 and I'm going to miss a few, so I -- I have to
3 tell you that I'd like to thank all those
4 people. I'd like to thank Terrie Barrie of
5 ANWAG for working very hard on behalf of the
6 sick nuclear weapons workers. And there's just
7 so many people in the room -- we have Richard
8 Miller, who's always been an advocate of the
9 workers; Senator Salazar's office for all their
10 support; Senator Allard's office for -- for
11 their support; Congressman Mark Udall,
12 Congressman Bob Beauprez -- we've had a
13 tremendous amount of support for this petition.
14 That's -- I'm around -- or I'm going to end
15 this saying that, you know, everybody came
16 together for the sick nuclear weapons worker.
17 Tomorrow we will give our presentation and
18 please come back. That's -- we feel that it's
19 worth everybody, you know, listening to. The
20 public is invited, so thank you.

21 **DR. ZIEMER:** Thank you very much, Tony. Indeed
22 our meetings are fully open, so everyone is
23 indeed welcome to -- to attend the meeting
24 tomorrow morning. Larry -- let me give you the
25 time.

1 **DR. WADE:** It begins at 8:30.

2 **DR. ZIEMER:** 8:30. 8:30, and be right here.
3 Larry Rands?

4 **MR. RANDS:** Hi, my name is Larry Rands. I
5 spent 19 years working at Rocky Flats, mostly
6 in what we referred to as the hot areas. And I
7 was laid off in 2001, voluntary lay-off. Two
8 years later I was diagnosed with lung cancer,
9 and a month after that I had my right lung
10 removed, along with a rib, and followed by
11 chemotherapy, which has affected my balance, my
12 -- numb -- I have numbness in my hands and
13 feet. And so my point of contention of being
14 here tonight is not only for myself but to give
15 you an idea of some of the things that
16 claimants have to go through.
17 I had filed a claim beginning in 2004. I am
18 still appealing denials, and I have been
19 requested to provide information -- names,
20 dates, places, types of exposures, duration of
21 exposures, et cetera, et cetera. And I'm sure
22 that you realize what a joke that is.
23 I have filed for information regarding
24 dosimetry logs, radiation control logs and on
25 and on and on. I can provide -- I have a

1 limited number of copies, but I can provide
2 that for you. And the burden of proof has
3 always come back to me.

4 In one case I received a letter and the -- the
5 gentleman said that I needed to obtain a
6 written medical report from my attending
7 physicians showing a causal -- this is, you
8 know, verbiage -- the causal relationship
9 between my claim for pancreatic cancer and the
10 cause of death indicated on my death
11 certificate. Well, I'm here to tell you that
12 I'm still alive. At least I think I am.

13 And my -- the people that spoke before me told
14 you about the ludicrous stuff that's going on,
15 and -- and this is -- I can vouch for that. I
16 have filed a letter of petition, I guess, if
17 you will, for -- under the Freedom of
18 Information Act to get records regarding
19 exposures to carcinogenic chemicals that were
20 used at the Flats. Most of the focus is on
21 radiation exposure, but any of us that have
22 been involved with decontamination work or any
23 glovebox work -- maintenance men, construction
24 workers, it goes on and on -- we were exposed
25 to more than just radiation, which could

1 produce cancers.

2 The NIOSH dose reconstruction report that I
3 received said that I had received 47 rem to the
4 lung, but the causal percentage was 37 percent.
5 And the guidelines that NIOSH uses say that
6 anything under 50 percent is denied. So my
7 point being that dose reconstruction does not
8 always consider the dose received by an
9 individual working in a high dose rate job.
10 They take averages, I believe, for the areas or
11 the buildings. They take an average number of
12 hours that may or may not have been worked by
13 an individual. And that's pretty much where
14 they get their dose reconstruction numbers
15 from.

16 I know for a fact that, as Diane pointed out,
17 you know, as material was stored in Building
18 371 in the later years, prior to being shipped
19 out, background radiation in Building 371 and
20 374 increased. Was not taken into
21 consideration. Many of the workers there were
22 office workers. At one -- it finally got to
23 the point that -- that the workers had to --
24 even the administrative workers had to wear
25 their dosimetry badges in the area working in

1 their offices. Their desks had to be moved
2 away from the walls because of increased
3 radiation. Now what about -- until that
4 occurred, what about the dose received then?
5 The record-keeping is virtually non-existent,
6 and records which might aid a worker claim
7 cannot be found or do not exist, and this is
8 from my personal experience. I've requested
9 this information. I've been told it does not
10 exist or it's not reproducible. If I want to
11 pursue it, it will cost me \$40 an hour to have
12 someone dig through the boxes that they have
13 located at the Federal Center. It will cost
14 ten cents a page, plus a percentage on top of
15 that to have that information reproduced and
16 sent to me. Now that information I just got
17 over the phone in the last couple of days, so
18 I'm expecting a letter to document that by the
19 end of the week.

20 So the burden of proof lies with the worker who
21 worked in an atmosphere of a need to know, and
22 wasn't always aware of the chronic effects from
23 the chemical exposure and the radiation
24 exposure that we had.

25 Routine exposures were not recorded and people

1 were not sent to medical for contamination or
2 chemical exposure unless necessary. And I'm
3 sure that this is just reiteration of what you
4 may or may not have heard already, but a lot of
5 that occurred.

6 Workers were exposed to unrecorded radiation
7 exposure as the stored radioactive waste
8 accumulated and aged. The amount of dosage
9 went up. Unusual results, which has already
10 been mentioned, were disregarded and averages
11 were used for a matter of record. Well, it's a
12 little unusual this time, but in the past that
13 person only had a certain amount of -- so we'll
14 just use that and erase or change the figure,
15 so...

16 If you need a copy, I can do that. Thank you
17 for your time.

18 **DR. ZIEMER:** Before you sit down, sir, Mike
19 Gibson on the Advisory Board has a question, I
20 believe, for you -- for Larry -- or no -- yes,
21 for Larry.

22 **MR. GIBSON:** I have a question and a comment.
23 Dr. Ziemer, I believe if the records and the
24 transcripts will reflect, I -- I read into the
25 record a redacted letter to a claimant from a

1 Mound facility in Miamisburg basically asking
2 the same information that this gentleman was
3 asked, and I was assured by one of the
4 governmental agencies that sent this letter to
5 the claimants that these letters would no
6 longer go out and this practice would be
7 stopped. And if -- if the gentleman would care
8 to share with us, I would like to know when you
9 received that letter.

10 **DR. ZIEMER:** And incidentally, this -- this was
11 a letter -- was this to DOL or -- A letter from
12 DOL.

13 **MR. GIBSON:** The question was, this same letter
14 was sent to a claimant and I read it -- a
15 redacted copy of that letter into the record, I
16 believe back in St. Louis, several months ago.
17 And the agency in charge assured me that this
18 letter would no longer be sent out to
19 claimants. So I'm just wondering, if you'd
20 care to share with us, did you receive this
21 letter recently or did you receive it several
22 months ago?

23 **DR. ZIEMER:** This says I think June 10th of
24 2005. Is that the letter that you're referring
25 to?

1 **MR. RANDS:** Which letter do you mean? I've
2 got a stack --

3 **MR. GIBSON:** Okay --

4 **MR. RANDS:** -- of correspondence this high in
5 my --

6 **MR. GIBSON:** I'm --

7 **MR. RANDS:** -- different people from the
8 Department of Energy, from the Department of
9 Labor and NIOSH records.

10 **MR. GIBSON:** Okay. I'm sorry, sir, I'm
11 referring to the letter that you referred to
12 asking for a physician to sign a letter saying
13 about the causation of your illness.

14 **MR. RANDS:** Right. Okay, that --

15 **MR. GIBSON:** What -- what was the date of that
16 letter if you don't mind sharing?

17 **MR. RANDS:** I don't. Okay, that was about
18 January 15th of 2006.

19 **DR. ZIEMER:** Well, that was very recent then.

20 **MR. GIBSON:** So that was after -- that was
21 after -- that we were assured by -- the Board
22 was assured that that letter would no longer go
23 out to claimants.

24 **MR. RANDS:** Okay.

25 **MR. GIBSON:** Okay. I just want that on the

1 record.

2 **MR. RANDS:** This is from the EEOIC (sic), the -
3 - what's the thing here -- Energy Employees
4 Occupational Illness Compensation group, and
5 that was about the 15th -- I think it was dated
6 maybe the 13th. I could reproduce that.

7 **MR. GIBSON:** Yeah, January 15th, I just -- I
8 just seen it.

9 **MR. RANDS:** Okay.

10 **MR. GIBSON:** January 15th of 2006, so --

11 **MR. RANDS:** Right.

12 **DR. ZIEMER:** Okay, thank you. That's the
13 information you were looking for. I think --

14 **MR. GIBSON:** I'd like to --

15 **DR. ZIEMER:** -- there's a concern here which
16 we'll have to follow up on.

17 **MR. GIBSON:** Yes, thank --

18 **MR. RANDS:** Thank you.

19 **MR. GIBSON:** Thank you, sir.

20 **DR. ZIEMER:** Okay, then James Turner is next.
21 Is James Turner here?

22 (No responses)

23 Okay, maybe he stepped out momentarily. Mark
24 Denhower -- Danhower -- Denhower*? Is that
25 Mark? No?

1 **MR. DANHOWER:** My name is Mark Danhower. I'm
2 an insulator. I worked out of Rocky Flats for
3 four years and I have large B-cell diffuse non-
4 Hodgkin's lymphoma. I got that at 37 years
5 old. I'm only 40 right now.
6 I was only -- I hear a lot of stories about a
7 lot of people who worked in the gloveboxes and
8 production days and everything else. I was
9 only involved in the last four years, but I got
10 sick. And I've been in remission for two and a
11 half years, but I have to live with that every
12 day, that I can come out of remission at any
13 time, and it scares the hell out of me. And I
14 know there's other people here that are sick
15 that are older -- may be a little bit easier
16 for them to handle, but I'm only 40 years old
17 and I have a family.
18 Luckily I was able to get -- I got married and
19 got some health insurance before I got sick, so
20 that way my wife can be taken care of. But in
21 the meantime, the monetary, the health, the
22 psychological, the physical effects of chemo,
23 like you just heard from this gentleman. I got
24 one of the most intense treatments of chemo
25 that you can get, five days a week, 24 hours a

1 day, six treatments, and that will -- ended me
2 up in the hospital for two weeks after every
3 treatment.

4 I can go on and on about, you know, the
5 financial, emotional, the -- the disabilities
6 that I have now at 40 years old that I
7 shouldn't have -- back problems, leg problems,
8 tingling in my hands and the feet. I got the
9 same thing you got. You know, and I still have
10 another 20, 25 years to work, and I don't
11 qualify for disability because I'm not disabled
12 enough. So I have to live on pain medication
13 and shots that hopefully when I'm able to go
14 back to work they will hire me, being on all
15 this medication. And they're taking a big risk
16 giving me a job.

17 You know, the -- the emotional distress that it
18 -- that it does to you, knowing that you have
19 cancer at such a young age. I know a lot of
20 kids have cancer. I dealt with kids with
21 cancer when I was around 21. I worked in
22 Children's Hospital, dealt with Ronald McDonald
23 House, all that stuff, and it just -- kind of
24 ironic I ended up in that same position, but I
25 can't imagine how a kid would feel being sick.

1 You know, I know I was scared to death 'cause I
2 was stage three when they found it, and the
3 only reason they found it in time was because
4 of my wife. She demanded a CAT scan. And that
5 was through my private insurance.
6 So you know, I've torn down the area where they
7 had the fire in '69, where they put up false
8 ceiling. I tore that down. I torn down G-mod
9 in 707, the beryllium room. I've torn down
10 ductwork 30 foot high that had dust on it where
11 you wouldn't believe from incidences that these
12 people talk about that happened 30 years ago
13 that 30 feet up in the air that nobody could
14 get to because of all the conduit and all the -
15 - the ductwork and everything else that we
16 couldn't get to until we took everything up
17 from the bottom up. And by the time we got up
18 there, you know, nobody knew until I brought
19 that piece all the way back down to the floor
20 and had the RCT swipe it to find out that stuff
21 was screaming, you know, and we were in that
22 area the day before -- you know, you got people
23 in one room with jack hammers on the walls and
24 you got people over here making a whole bunch
25 of noise and shaking dust and everything and

1 we're walking around in that area and it's not
2 posted. And the next day it's screaming hot
3 once I take a piece of ductwork down.
4 And I was told by my doctor that radiation
5 exposure can cause non-Hodgkin's lymphoma. And
6 I've -- I think they did my reconstruction and
7 they put me at .03 percent, which means I don't
8 have a chance in hell of getting a penny, or
9 life insurance, or health insurance that I
10 desperately need because if my -- my wife works
11 through the State, and if she loses her job, I
12 lose my health insurance. And if I get sick
13 again, I'm dead in the water. I mean I went
14 bankrupt with health insurance, but losing
15 almost \$90,000 in payroll from working out --
16 'cause I couldn't work at the Flats when I got
17 sick. I didn't qualify for disability 'cause
18 you have to be disabled for at least a year, so
19 I didn't get a penny from them. I'd just
20 bought a new house.
21 I mean I can give you a sob story all night
22 long. I know these other people have other
23 stuff they want to say that's probably more
24 important, but I also want to put a face to the
25 disease that's out there. There's guys out

1 there that were 18, 19 years old that hopefully
2 won't get sick. But who knows what they were
3 exposed to because -- you know, they're going
4 to be in the same position I'm in now 20 years
5 from now, and hopefully they're not standing in
6 front of a Board begging you for money. But
7 not to go on vacation or anything else, but
8 just to compensate for the loss that you've had
9 to go through through the price of the
10 insurance, the deductibles -- I still have to
11 pay out of pocket money for my chemo -- not my
12 chemo but my -- the pain I have from my chemo.
13 I still have out of pocket expenses. It nev--
14 it's a never-ending deal.

15 It never stops and, to me, that would be the
16 biggest thing is long-term health insurance.
17 Because I know a lot of people that are
18 uninsured and can't afford it, and I know I was
19 truly lucky enough to get on my wife's
20 insurance before I went out to Rocky Flats, so
21 I'm one of the lucky ones I think when it comes
22 to insurance because I know there's a lot of
23 people that are uninsured or can't -- can't
24 afford it. But if she loses her job, I can
25 definitely -- will never be able to afford it.

1 And like I said, my doctor tells me more and
2 more -- the more I'm in remission, the less
3 chance I have of getting certain -- you know,
4 my cancer coming back. But I was also told
5 that the chemo that I received can also cause
6 other cancers. I could end up with leukemia.
7 I could end up with anything.

8 And if I -- if I get sick again, I have to have
9 a bone marrow transplant. And because my
10 brothers are half-brothers, I have to depend on
11 a anonymous donor to save my life. I hope to
12 God nobody ever has to have that in the back of
13 their mind, that they have to go on a computer
14 to find a stranger to save your life. I have
15 to live with that every day.

16 So I appreciate your time. I wish all of you
17 the best. I wish everything works out for
18 everybody. I just hope that you have an impact
19 on this cohort status because that is the only
20 way any of us is going to ever see a penny.

21 **DR. ZIEMER:** Thank you.

22 **MR. DANHOWER:** That's the way I feel. Thank
23 you.

24 **DR. ZIEMER:** Leslie Britton?

25 **MR. BRITTON:** Good evening.

1 **DR. ZIEMER:** Or is it -- Lessie -- Lessie?

2 **MR. BRITTON:** Lessie. There you go, you get a
3 dime for that. Lot of folks -- most folks at
4 Rocky Flats call me Les, and I'm a newcomer
5 like this young man, was out there six years,
6 and I got BE exposed.

7 Now let me just -- now the folks that worked
8 there, we did make history. I think it was
9 projected to where we were supposed to lose two
10 and a half people during the process of taking
11 down Rocky Flats. All right. We didn't do it.
12 That's the -- that's the good side. But the
13 down side is, look at all the exposure and the
14 sickness that came after that.

15 Only thing I'm asking is this here. Being that
16 I was out there just six years and my BE
17 sensitivity did not -- okay? -- and for some
18 strange reason he can't find the paperwork of
19 that. Now that's bad. And I don't understand
20 this because it's only been six years, I've
21 only been gone for two years. But now like the
22 folks that's been out there that's been there
23 some 25 and 30 years, you know, and like here
24 they are, they're dying from cancer -- or have
25 died from cancer, and this young man here is 40

1 years old, he doesn't know what's going to
2 happen to him. But what I don't understand is
3 how does the government and people in power
4 just throw away the citizens that helped save
5 this country. How do you just throw them away?
6 Why is it that you don't care anything about
7 the people that helped save this country?
8 And then you do all the other like idiotic mess
9 of stuff we won't discuss about going on now --
10 folks can't get any help it seems because the
11 system is clogged up -- by what? Just use your
12 own imagination. All right?
13 I don't have nothing against nobody human being
14 -- okay? -- because my family's Heinz 57.
15 Okay? But the (inaudible) was just here, I
16 don't appreciate no one coming to this country
17 without paying their dues that a lot of us have
18 paid to live in this country. You come here,
19 you get a free ride. All right? And then here
20 we are, you got -- believe me, I mean I'm proud
21 of the fact that I was part of Rocky Flats
22 taking down, see, because we did it most safe--
23 safest way possible. But the after-effect --
24 think about the aftereffect, and who cares
25 about that? The folks that don't care and just

1 holding power, the right policy and things,
2 there's nothing wrong with them. But now you
3 have one doctor that's going to raise a bunch
4 of ruck-- and you know him, Dr. MacInerney*.
5 We worked in G module where this man -- young
6 man tore down. I got exposed to BE there. He
7 brought us -- a team of physicians in, which is
8 him and 11 others. They was exposed. They had
9 no PAPRs, no Tyveks, nothing. Then two weeks
10 after they came in G module, then they post the
11 room. I've never in my life heard a doctor
12 talk this bad about anybody. The man might
13 have got -- I don't blame him for getting upset
14 for the simple reason he got exposed and didn't
15 have to be exposed.

16 I understand what makes this world go round,
17 and it's not the people. It's the money.
18 Folks care more about bonuses than bones that
19 make people. We'll sit here and we can talk
20 all day long about what you're going to do, but
21 then that -- you've spent \$95 million on 30
22 people. All right. And when this program come
23 about, I mean what -- and they said the \$95
24 million was paperwork. You care nothing -- you
25 care more about paper than people. Why is

1 that? You got -- you sit and you listen to me,
2 you sit -- all these folks here, but here --
3 look at us, look at us. Folks is dying. It's
4 the one's that's not dead. People are hurting.
5 Credit, triple A-1 down to zero, bankruptcy.
6 Like the young man said, begging for pennies
7 when millions have been spent foolishly simply
8 because we have jackasses in office. I'm real
9 serious about that. And we have jackasses in
10 here in high position that don't want to do
11 anything, you know.
12 I'm not hurting, you know. I don't have to do
13 this here. I don't have to take no -- I take
14 more drugs than anybody in here to keep from
15 the pain that I have, just to function. Not to
16 get high, just to come in here. Every day, to
17 get up. It hurts. My wife have to deal with
18 that. My children. But the name of the tune
19 is that I'm going to be all right, until I die.
20 But then we're all going to die from something,
21 and we agree to that. But if you all have any
22 kind of power to get these fools off they
23 behinds and take care of the people that
24 dedicated their lives to saving this country,
25 holding this country together, then maybe it'd

1 be a better country -- when you've spent all
2 your time on other stuff that really don't even
3 matter simply because they haven't paid they
4 dues. Everybody in here has paid their dues to
5 live in America. Thank you.

6 **DR. ZIEMER:** Okay, well said, Lessie. And Jan
7 Dennemest -- Dennemest?

8 **MS. DEMOREST:** Yes, Demorest.

9 **DR. ZIEMER:** Is that close?

10 **MS. DEMOREST:** Hi, I'd just like to say that I,
11 too, received the Part E letter that you were
12 asking for in approximately January. I'd also
13 received a telephone call from Hanford's
14 Resource Center asking for an interview. I had
15 that deferred because I am now facing another
16 possible cancer and was unable to do anything
17 other than meet with a physician and asking him
18 to write another letter identifying all of
19 these issues. So I'm glad if in fact that has
20 been canceled as far as -- as what is necessary
21 for a claimant to provide for the Part E, if
22 that's in fact what you were referring to. I
23 would be glad to supply a copy of that letter
24 if you -- if you would so desire.

25 **MR. GIBSON:** The Board was as-- the Board was

1 assured it would be taken care of, but
2 evidently it has not yet.

3 **MS. DEMOREST:** Committee members,
4 representatives from our Colorado senators and
5 congressmen, fellow Steelworkers, fellow Rocky
6 Flats claimants and concerned citizens, thank
7 you for the opportunity to speak to issues
8 regarding my experience at Rocky Flats --

9 **MS. MUNN:** Ma'am --

10 **MS. DEMOREST:** -- and I request that you
11 support the Rocky Flats SEC petition --

12 **DR. ZIEMER:** We need to have you --

13 **MS. DEMOREST:** -- for all claimants --

14 **DR. ZIEMER:** -- get a little closer --

15 **MS. MUNN:** Could you please --

16 **DR. ZIEMER:** -- to the mike, if you --

17 **MS. MUNN:** -- get closer to the mike? We can't
18 hear you.

19 **MS. DEMOREST:** Sure.

20 **DR. ZIEMER:** Yeah, that's better.

21 **MS. DEMOREST:** I'm just thanking you for -- can
22 you hear me now?

23 **DR. ZIEMER:** Yeah, that's better.

24 **MS. DEMOREST:** There's a saying to that, I
25 think. I request that you support the Rocky

1 Flats SEC petition for all claimants,
2 production and non-production workers alike.
3 My name is Janet Demorest and I am a claimant
4 under the EEOICPA as I contracted breast
5 cancer, multi-focal ductal carcinoma in situ
6 requiring a modified radical mastectomy in
7 1994. Two and a half years later, after
8 multiple tumor aspirations and excision
9 biopsies to verify the presence or absence of
10 cancerous cells in one and a half centimeter
11 tumors growing at a rate of every three weeks
12 to three months, 11 in all, and when one of the
13 biopsies indicated precancerous hyperplasia on
14 the ductal cells and when I underwent a
15 prophylactic modified radical mastectomy of the
16 other breast in order to reduce the chances of
17 full-blown carcinoma or metastatic breast
18 cancer.

19 I was an employee. I was a non-production
20 worker at Rocky Flats environmental technology
21 site at the time I contracted cancer. From
22 1991 to 2000 were the ten years that I spent
23 there. Note that all production of pits had
24 ceased at this time. However, the incidence of
25 cancer did not, for a production worker or non-

1 production worker, as we have heard in many
2 instances tonight.

3 Although -- although the NIOSH reconstructed a
4 radiation dose for my claim as I had not been
5 issued a dosimeter at Rocky Flats per their
6 management policy, and I challenge you to ask
7 why such a policy existed, I did not believe,
8 nor do I now, that my exposures were accurately
9 estimated and cannot be estimated for
10 sufficient accuracy. I therefore requested a
11 re-evaluation of my claim, which was appealed
12 August 19th of 2005, and a hearing took place
13 in October. The hearing was, in my estimation,
14 a farce, a complete waste of time and money, as
15 was the three and a half years waiting to be
16 heard.

17 I'll just briefly explain why. For instance,
18 during the hearing, the person who was
19 overseeing the hearing greeted me cheerfully,
20 stating that she remembered me as she was the
21 one who had taken my claim input more than
22 three years previously. I thought how strange
23 that the same person who took my input was now
24 the hearing official. Is this a conflict of
25 interest?

1 It was an emotional hour, but it was longer
2 than the five minutes the older gentleman
3 before me in line had his hearing, a man who
4 was obviously crippled, and he was only allowed
5 five minutes for his hearing because the
6 recorder personnel was late. So in order to
7 keep on time, they did not reschedule his
8 hearing. I found this strange, and I question
9 how fair.

10 I had heard -- I had told the hearing personnel
11 that I needed to make sure that the hearing was
12 for Part B and not Part E, because none of my
13 letters ever indicated that the claim hearing
14 was for which part. As I left my hearing, the
15 official stated, "If you get any more cancer of
16 any kind, please let me know." I was
17 stupefied. I had no response to such an
18 inappropriate comment. What a horrible way to
19 exit a cancer patient, fighting for my life.
20 My claim was in fact denied, with no
21 reconsideration of any of the facts which had
22 been submitted in writing, verbalized multiple
23 times in many phone interviews, nor per the
24 hearing. A dose reconstruction of .65 millirem
25 placed me at .25 percent risk. This totally

1 ignored all of the facts that I had submitted.
2 What was ignored? All of it. For instance,
3 the fact that my office -- that is my desk --
4 was in a cold building. The documentation in
5 the DOE records did not indicate that as the
6 maintenance implementation program manager that
7 I did not manage anyone. It was simply a title
8 given to me because there was a new DOE order
9 for maintenance programs for DOE facilities
10 which required assessment of maintenance
11 operations at DOE nuclear and non-nuclear
12 facilities and implementation of SHAOW*
13 statements for the DOE. That is the
14 construction worker program, which we have
15 heard of tonight.
16 The fact that my job required that I accompany
17 those construction crews, the maintenance
18 workers, who also were my escorts since I had
19 no dosimeter and had not been tasked for
20 radiation worker training, per the management.
21 I ask you again, why? These crews which I
22 accompanied were electricians, welders,
23 painters, carpenters, pipefitters, metrology
24 technicians to check calibration of
25 instruments, among others. We went into all

1 the buildings, more than 400 at the time, on a
2 routine basis up to the time of my diagnosis in
3 January of 1994. The buildings which I worked
4 in included cold -- that is assumed cold --
5 such as Buildings as 060, 111 and 112, 115,
6 130, 131, 331, 334, 460, the trailers, medical,
7 metrology buildings, et cetera -- and hot
8 buildings, such as 371, 441, 443, 554, 771 --
9 which we've heard a lot about tonight -- 776,
10 881, 707, et cetera. The fact that many cold
11 areas within a hot building for non-production
12 staff, which we have also heard instance
13 proclaimed tonight, who were therefore not
14 required to wear dosimetry -- these buildings
15 had ventilation systems which were not always
16 separated and were not HEPA ventilated from the
17 hot areas. Therefore the air circulated
18 throughout such buildings from the production
19 side to the non-production office areas. So
20 even a visit to a cold building could result in
21 undetected contamination.

22 Could I or other non-production workers
23 therefore have received some rad, if present,
24 from sitting at my desk? Or attending a
25 meeting in a cold side of the building? More

1 likely than not is what most workers would tell
2 you.

3 Fact: Painters reported to me of instances,
4 though I was not in the area at the time, in
5 which they were preparing a wall in a cold
6 area, only to find the marker for radiation --
7 purple paint -- beneath layers of normal paint
8 in areas where workers had their desks and
9 conducted paperwork, believing -- and for all
10 indications, they were right -- that they were
11 in a non-rad area. The purple paint, however,
12 indicated that the radiation of some type had
13 warranted the warning, which had mistakenly
14 been painted over at some point in time. Hence
15 any worker, production or non-production
16 worker, would have been exposed to some type of
17 radiation, and most likely not be wary -- be
18 wearing a TLD when in that designated office
19 uncontrolled area.

20 Fact: I might need to attend a meeting
21 carrying paperwork back from an office in
22 another building, often held in Building 771,
23 the most dangerous building in the world, per
24 former Secretary of Energy, Mr. Pena. Meetings
25 were generally held in the cafeteria, or a cold

1 office area -- also which are referred to other
2 accountants tonight.

3 It was not until after my cancer identification
4 when I demanded that I be issued a dosimeter
5 that I received a recorded dose, 0.11 rem.
6 Where have I been? Building 771 in a meeting
7 in the cafeteria? Yes. It was not until years
8 later that I found out that the liquid
9 plutonium processing tanks -- which were now
10 leaking badly, post the infamous FBI raid, and
11 had to be drained -- were on the other side of
12 the cafeteria wall. Did my manager or
13 supervisor ever go into these areas? All I
14 know is I never saw a one of them in any of the
15 buildings. They sent me instead, including
16 going to meetings at other sites, such as
17 Savannah River, Y-12, Pantex.
18 While at Pantex there was a tritium release,
19 and Pantex had made sure to issue me a
20 dosimeter. However, the NIOSH report did not
21 include the Pantex dosimetry report.
22 Oak Ridge, Y-12, I was there many times. The
23 later -- during a latter tour it included a
24 tour of the side of Y-12 in which I noted that
25 a pad was filled with everything from tires to

1 desks in the open, uncovered. When I asked
2 what was that, the reply -- it's contaminated
3 stuff, and it had been filmed in a documentary
4 by a major television program the week before
5 as being a concern to the safety of workers and
6 visitors -- and the public. Possible
7 contamination exposure sans dosimetry, even
8 when I was visiting other DOE facilities as
9 part of my job, both pre- and post-cancer
10 diagnosis.

11 Y-12, incidentally, has now been given SEC
12 status.

13 Fact: Sources were present in many of the
14 buildings, some of which I was aware of, such
15 as low-level sources for the metrologists in
16 calibration of instruments. Others, which were
17 much larger, higher rad sources which at the
18 time I had no knowledge of the close proximity
19 to which I was working, as I had no need to
20 know.

21 For example, there was apparently an extremely
22 large source, the size of a room -- which room
23 I do not know -- which leers (sic)
24 [years/layers] later during D&D activities had
25 to be excised from the hot building by cutting

1 out the floor and having a crane lowered into a
2 vender truck, the source occupying the entire
3 back end of the truck. These activities were
4 reported to me because then I was oversight for
5 transportation activities, hence my need to
6 know at the time of post-cancer that the source
7 was originally greater than 20,000 curies of
8 cesium, 20,000 curies. How many times have I
9 and others walked into that area and the escort
10 would warn me to -- don't touch anything,
11 hurry. Was there sufficient protection?
12 Doubtful, though I hope so for all the workers'
13 sake. But I do know that the workers whom I
14 accompanied were concerned.

15 Fact: I was sitting at my desk in the
16 maintenance building, Building 334, cold
17 building -- I don't recall the date, but I
18 include it as it typifies, unfortunately, the
19 hazards of daily work at Rocky Flats -- when an
20 announcement was made regarding an incident
21 that had finally been reported, something like
22 six days past the incident, in which liquid
23 plutonium tanks had been successfully drained -
24 - a major feat. The first one had gone so well
25 that, despite the fact that the work order was

1 to drain only one tank, a second had been
2 drained as well, without taking time to assay
3 the contents of the second tank. This allowed
4 close proximity of two different concentrations
5 of Pu, a potential criticality situation, which
6 was identified nor reported until after the
7 assay was completed. An investigation was
8 conducted, an occurrence report filed, and two
9 high-level supervisors lost their jobs as a
10 consequence.

11 Where had I been during that week, during the
12 time frame of the tank drain to the time of
13 notification? In that same building.

14 Exposure? Highly likely, but not measured, no
15 dosimetry.

16 Fact: Regarding Building 771 again, I had to
17 ensure maintenance crew operation support in
18 the building. When not escorted, I could enter
19 the area but not the building per se, so I
20 would stand outside and observe the work
21 outside. If maintenance crews didn't show on
22 time, or there was a problem, I might make a
23 phone call from a tunnel adjacent to the dock
24 area. It wasn't until after I had rad worker
25 training years later in 1998 that I found out

1 that the tunnel was part of the transfer of
2 drums of liquid plutonium, and other stuff, and
3 was an area I definitely should not have been
4 in. Dosimetry? No. PPE? No.

5 I was also not aware at the time that due to
6 the fire that was in Building 771, and others,
7 that temperatures had caused plutonium to
8 become oxidized into high-fired oxides, also
9 known as Super Class Y materials. Due to this
10 unique form of plutonium, and since this is the
11 building where I later, post-cancer diagnosis,
12 was in when I had a dosimeter and received a
13 dose -- I'd only been in the cafeteria,
14 remember -- it would -- could well have been
15 due to Pu exposure, as well as to Super Y
16 particles of high-fired oxide plutonium, which
17 cannot be detected at the same levels of normal
18 Pu due to their extremely small size.

19 Note: It is my understanding that even Super Y
20 particles are not detectible by TLDs. Since I
21 was in various buildings on a daily, weekly
22 basis for over three and a half years prior to
23 my cancer diagnosis, or after, overall I could
24 well have had the potential for chronic, low-
25 dose exposure to ionizing radiation, including

1 Super Y particles.

2 Fact: That I continuously walked by filled
3 drums while swipes were being taken and loaded
4 onto docks for transportation to other areas.

5 Fact: I would sometimes be caught in rad
6 building during a shut-down due to a crit alarm
7 and confined to an area sometimes for several
8 hours. Exposure? Most likely.

9 Fact: The grounds themselves were
10 contaminated. Driving past the gates from the
11 east gate, one had to drive past rad-posted
12 fenced-in open soil areas with sprinkler heads
13 and hoses visible. As a new employee when I
14 asked why they were trying to keep the
15 sagebrush and the tumbleweeds green, I was
16 informed that that wasn't the purpose. But
17 after the fires in Building 771 and 707, the
18 water had to be put someplace for the fires,
19 and it over -- because it had overflowed the
20 berms, and so one of the ways was -- to get rid
21 of the hot water was to spray it on the soil
22 using a common sprinkler system, which of
23 course contaminated the soil and could blow
24 around when fierce winds hit, further spreading
25 contaminants.

1 Fact: Another method was one that was then
2 developed to contain the contaminated water by
3 building solar ponds, which were areas
4 employees continually walked by. I was told
5 not to deter any animals I saw drinking from
6 these ponds so that we wouldn't be in violation
7 of EPA laws. RCTs were baffled to find hot
8 areas at the base of electric wire poles, which
9 electricians had to maintain, until one day
10 they found a coyote relieving himself onto the
11 base of the pole. The animals were drinking
12 from the solar ponds. I didn't drink from the
13 solar pond, but I drove or walked by them
14 routinely as I went from one area to another,
15 as did every employee at the site, whether a
16 production worker or a non-production worker.
17 We all had potential to receive ionizing
18 radiation.

19 It is difficult to describe in retrospect the
20 laissez faire attitude we as workers came to
21 accept about our working conditions. We would
22 go about our work, and most of the workers
23 pooh-poohed the idea of any real danger to any
24 of it. After all, they couldn't see it. They
25 were used to it, and nothing had happened to

1 them so far. However, I believe it was also
2 because they really didn't know how truly
3 dangerous it was. Nor, in fairness to the
4 discoverers of the entire nuclear bomb process,
5 neither did they. Would I work there if I had
6 known the level of contamination and not
7 believed in what I was told, not to worry?
8 Absolutely not.

9 Post-cancer, my activities and locations were
10 changed, mostly at my request, so that I would
11 not be exposed to ionizing radiation. I was
12 terrified of getting cancer again. I was
13 issued a dosimeter and was limited by the Rocky
14 Flats medical officer to 100 millirem per year.
15 Likewise, I reduced my visits to other
16 buildings. Yet one visit alone to 771 and
17 that's where I received my one and only
18 recorded dose.

19 I never went back to 771 after that, yet NIOSH
20 included this post-cancer single reading as a
21 primary basis to calculate my pre-cancer dose
22 as part of the dose reconstruction, and ignored
23 all the incidents I have just related. Why?
24 Because I did not provide dates of the
25 incidents.

1 I often wonder if the clothes in my closets,
2 the papers I carried back from meetings and
3 others contained contamination back to me, to
4 my family, to my peers. Is it still there?
5 Where, and when did I get the uranium and
6 plutonium found in my exit, and only,
7 urinalysis in June of 2000, none of which were
8 above decision levels.

9 In light of the BEIR VII report of June 29th,
10 2005, which was just four days after I received
11 my NIOSH report, and others, surely any
12 exposure this one measured should not be
13 considered to be a causative agent to cancer.
14 The BEIR VII report details that any ionizing
15 radiation can cause cancer. I -- yet this is
16 not included in the NIOSH model for
17 determination of any of the cancers.

18 As low as reasonably acceptable, or LARA,
19 levels were constantly being changed at Rocky
20 Flats as D&D activities and contamination
21 exposure increased. Yet a respirator fit was
22 denied me, and a dosimetry was once again
23 denied, and my TLD badge was taken away during
24 my last few months at Rocky Flats. I again ask
25 you, why? I will be glad to give you my

1 opinion, which I can base upon fact. It was
2 called money.

3 So again, there was no way to know if I had
4 been exposed or not, even when I might go to
5 the warehouse, the cold Building 130 only to
6 discover unreported incident: filled drums of
7 low-level waste had come across the vender
8 truck now loaded with the once upon time 20,000
9 curie, there was my -- my wonderful source, but
10 it had really been reduced down to less than
11 10,000 curies so it could be transported across
12 Colorado highways to Canada.

13 This is a gigantic source that I was only three
14 feet away from and I did not know. It was in
15 the cold area. Did I receive contamination?
16 Did others? Yes, without a doubt. Was it
17 measured? No, no dosimetry. Just because it
18 wasn't measured doesn't mean in fact that it
19 wasn't present.

20 Might I once again get cancer? I cannot allow
21 myself to think that, but it is unfortunately a
22 real possibility.

23 Please consider that other office workers, non-
24 production workers, even managers -- though I
25 was only a program implementation manager --

1 have been exposed to ionizing radiation,
2 including the extremely dangerous Super Y
3 particles that may have been the cause, at
4 least as likely as not, to have been a
5 contributing factor to potential terminal
6 illnesses such as cancers.

7 My testimony is an accurate representation to
8 the best of my recollection. The dates, the
9 times, the records of incidents -- no, I didn't
10 keep records of these events because they were
11 routine operations. I didn't have any idea
12 that I might well have been exposed to
13 radiation, let alone to any number of solvents,
14 asbestos, beryllium, during my sojourns around
15 the site. I had no reason to believe that I
16 would need to keep records, for date, for any
17 reason. I was keeping track of ordinary events
18 on a daily calendar in a memo correspondence,
19 none of which I have record of.

20 Again, NIOSH totally ignored all these
21 incidents which I have just summarized. My own
22 physician's report to NIOSH stating his belief
23 that my cancer was caused by ionizing radiation
24 received as an employee at Rocky Flats was also
25 ignored. How can this be?

1 I close by sharing an image I shall always
2 recall of one maintenance worker who lost his
3 leg and aged before his years before his -- he
4 died of cancer, who continually came out to the
5 site to visit his friends, to visit the place
6 he considered his home away from home before
7 cancer won, a cancer caused without a doubt due
8 to radiation exposure at Rocky Flats. His
9 family needs compensation. His coworkers need
10 compensation. We must believe in the workers,
11 production or non-production worker. We all
12 worked hard, side by side. We believed in what
13 we were doing with all our hearts, and some
14 have died. Others of us may die sooner than
15 others our age because we were dedicated as
16 Cold War warriors, and were unknowingly exposed
17 to deadly radiation and other toxic substances.
18 It is impossible to reconstruct any dosage
19 received at Rocky Flats, the most contaminated
20 site within the nuclear complex, as indicated
21 by reports by the DOE themselves.

22 Please support the SEC for Rocky Flats
23 claimants, production and non-production
24 workers alike. Thank you very much.

25 **DR. ZIEMER:** Thank you very much, Jan. I'm

1 going to check back to see if James Turner has
2 come into the assembly.

3 (No responses)

4 Apparently not. That then concludes our public
5 comment period. I'm sorry that we did go over
6 a bit, but I think it was important that
7 everybody got a chance to be heard. Thank you
8 very much -- we have a question here. Hang on
9 just a second. Mr. Gibson on the Board wants
10 to ask a point here.

11 **MR. GIBSON:** I have a question to ask. It
12 seems that several of the claimants have
13 received their illnesses and stuff within say
14 the last decade, 15 years. Just for
15 informational purposes, could -- could someone
16 tell me who the DOE officials on-site were at
17 that time?

18 **UNIDENTIFIED:** (inaudible)

19 **MR. GIBSON:** Was it -- well, the top offici--
20 was it Bob Card* and Jesse Roberson?

21 **UNIDENTIFIED:** (inaudible)

22 **MR. GIBSON:** Okay.

23 **UNIDENTIFIED:** (inaudible)

24 **MR. GIBSON:** And did they -- who was the
25 contractor at the site, C.H. Hill?

1 **UNIDENTIFIED:** (inaudible)

2 **MR. GIBSON:** Hill?

3 **UNIDENTIFIED:** (inaudible)

4 **MR. GIBSON:** Okay. And then just -- just for
5 the record, it seems to me that shortly
6 thereafter Bob Card and Jesse Roberson went to
7 Washington, D.C. under DOE to take over
8 environmental management, and that's when they
9 established the accelerated clean-up of Rocky
10 Flats, Mound and Fernald.

11 **UNIDENTIFIED:** (inaudible)

12 **MR. GIBSON:** And when they talked about it --
13 eventually -- you know, before they took over,
14 we were talking 20 years worth of clean-up, and
15 all of a sudden when they took over -- now all
16 of a sudden, within five years, all three of
17 the sites are cleaned -- supposedly cleaned up,
18 so I just want that information to be on the
19 record.

20 **DR. ZIEMER:** Okay. Thank you. There was
21 another question here. Sir? You'll have to
22 use the mike. And again, identify yourself for
23 the court reporter.

24 **UNIDENTIFIED:** There's been a lot of Rocky
25 Flats workers come and go, and there's going to

1 be a lot more that are going to come down sick.
2 Their quality of life is going to change.
3 They're going to have to give up something. My
4 question is to you, if you had to change
5 positions with them, how much quality of life
6 would you be willing to give up?

7 **DR. ZIEMER:** Thank you. That's a good question
8 for us to think about. Another question here.

9 **UNIDENTIFIED:** (inaudible)

10 **DR. ZIEMER:** You'll have to use the mike or --
11 yeah. Okay. Yeah, that one is portable. Just
12 -- the one in the -- just pull it --

13 **UNIDENTIFIED:** I can speak louder --

14 **DR. ZIEMER:** No, we mainly need it for the
15 court reporter here.

16 **MS. MUNN:** For the record.

17 **DR. ZIEMER:** Yeah, need to get it on his tape.

18 **UNIDENTIFIED:** I would like to say one thing.
19 Look, guys, I would like to thank my family, my
20 friends for being here. We're going to be sick
21 and we're going to get sicker. And you cannot
22 give us any assurances that you're going to
23 take care of us. We proudly -- proudly served
24 our country. We're just as much soldiers as if
25 they went to any war. I would like to say

1 thank you to all my friends here. These are my
2 family. When you stand side by side somebody -
3 - with somebody from the management all the way
4 down to the janitor, we're all part of a body
5 that worked together as a team.

6 **DR. ZIEMER:** Very good.

7 **UNIDENTIFIED:** I want to tell my husband
8 publicly that I'm sorry that I was -- allowed
9 myself to push so hard that I will not be with
10 him for the rest of his life. When his demise
11 comes, and I know that it will, you won't be
12 there.

13 I would also like to tell you guys that I'm
14 happy for the first time in my life because
15 I've let you guys go. I don't care what you do
16 any more. You can't get my goat. Okay? It's
17 not for sale.

18 I, Laura Donna Kay Schultz, here swear that
19 from hence on I'm going to live my life as if
20 it's a new life. I'm terribly troubled and
21 grieved of the loss of my family here. These
22 are my family, as if they were my mothers, my
23 sisters, my brothers, my fathers, whatever you
24 might say. It disturbs me that this process is
25 so cumbersome that you cannot pass the SEC

1 Special Exposure Cohort bill that would also
2 cover from every human being, every soldier
3 that worked at Rocky Flats, no matter who they
4 are. I guess that's all I have to say. I've
5 said my piece.

6 **DR. ZIEMER:** Thank you. Thank you. One more
7 question here -- or...

8 **MS. HEAVNER:** I was an R-- I was an RCT, I'm --

9 **DR. ZIEMER:** Identify yourself --

10 **MS. HEAVNER:** -- Elizabeth Heavner.

11 **DR. ZIEMER:** Identify yourself for the court --

12 **MS. HEAVNER:** Elizabeth Heavner. I was an RCT
13 on the step-off pad for a while in 774, and
14 they had done away with doing any kind of
15 bioassay in high radi-- high -- highly
16 contaminated areas. The kids would come --
17 their -- their respirators were so hot that
18 they were infinity, and I said well, don't you
19 need your nasal/mouth smears and your bioassay,
20 and they said they took it out of our package.
21 Now they don't require anything. And this man
22 wore this mask that was so hot it had to be
23 shipped in high-level waste, and yet no
24 bioassay was -- they had done away with
25 bioassay and they had done away with safety

1 because years ago we were told you couldn't
2 wear your mask over two hours because the seal
3 breaks. Once you start sweating, your
4 respirator seal breaks.

5 And also I worked a lot of years in G module,
6 never had a respirator. Every other month I
7 had to be cycled out because I had more than
8 100 millirem in a month. And yet -- so I'd be
9 out a month, go back a month. And we never had
10 respirators. We sanded on BE with no down-
11 drafts, no kind of thing to catch the dust.
12 And we would talk about that, and they'd say
13 it's not necessary.

14 But the rules went out, and there's other kinds
15 of illnesses that come from radiation and this
16 contamination besides cancer. And I, too --
17 they put me on permanent disability and I won't
18 be able to work, but mine's not necessarily a
19 diagnosed cancer and I -- I breathed a lot of
20 BE in, but they won't agree to do a lavage to
21 do a check. And you know, we're denied all the
22 stuff and Dr. MacInerney at the end wasn't even
23 allowed to talk to workers. I called for weeks
24 trying to get him to help me out, and they said
25 well, he's not allowed to because he hasn't

1 seen you recently.

2 So you know, there's other things that happened
3 to people that should be taken into
4 consideration because, like me, I can't get a
5 job. I live on morphine and all these pills.
6 And you know, I'm not -- I'm still in my
7 fifties and I think that should be considered
8 in the bill also.

9 My husband has BE. They can't do lavages
10 'cause they can't get the stuff out. He had
11 high dose dosimetry areas and they would just
12 up their limit and keep working, and they would
13 lose their dosimeter for that month. In
14 another area he worked on he had to wear ten
15 dosimeters. Now none of that stuff showed up
16 in the records. And records clear back to the
17 '80s -- I kept mine because I -- I'm a pack rat
18 on paperwork and stuff, but there was a lot of
19 injustice done to people out there and I think
20 everything should be considered, not just
21 cancer.

22 Judy here, she has a BE in her lungs and she's
23 been denied over and over. And she's had
24 cancer, also.

25 Do you want to say something?

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

2 **MS. PIERSON:** I have berylliosis and the
3 question I've -- my case has been turned over
4 to five different caseworkers, and the la-- the
5 last two wanted to know well, what years and
6 which mines did I work coal in. Now just look
7 at me. Have I been in a coal mine? Have --
8 have I done stuff like that? When I tell them
9 that I worked in Building 44 for eight years,
10 this doesn't mean anything to them and it
11 doesn't mean anything to anybody. Just -- you
12 -- you're sick, so let's just move on. It --
13 it isn't fair to any of us. It isn't fair to
14 any of us.

15 **DR. ZIEMER:** Thank you.

16 **MS. MUNN:** We didn't get her name.

17 **MS. PIERSON:** My name is Judy Pierson.

18 **DR. ZIEMER:** Yeah, thank you. Obviously many
19 frustrations. Thank you for sharing that.
20 We do need to come to closure -- I have another
21 comment, sir. Go ahead.

22 **MR. WYNN:** My name is Chuck Wynn. I live in
23 Boulder. I worked at Rocky Flats from '58 to
24 '61. I worked in Building 71. I think they
25 refer it now to 771. At that time it was 71.

1 I was injured working in a glass -- in a
2 glovebox with glass, puncture wound, which was
3 contaminated with plutonium. I quit in '61. I
4 didn't have any problems till '84. All of a
5 sudden I started getting sores in my mouth and
6 running a high fever. I went to the doctor and
7 the guy says well, you've got herpes. So oh,
8 okay, send me back home.

9 The next day I was so sick my wife took me back
10 to the same doctor practice but a different
11 doctor and he says I'm going to take a blood
12 test.

13 He took a blood test and he come right back and
14 he grabbed me by the arm and he says Chuck, you
15 have no immune system. It's totally gone.

16 So he took me right over to the hospital, laid
17 me on the bed and did a bone marrow test, with
18 no -- no shot or anything, laid me down there.
19 My wife was on one arm and two nurses on the
20 other one and he did a bone marrow test, and
21 I'll tell you what. I picked those nurses and
22 my wife right up off the bed it hurt so damned
23 bad.

24 But anyway, the story is ever since then I'm on
25 this peaks and valleys all the time. Sunday -

1 - I have a dog that's bad and I was -- I've got
2 a ramp made and I was putting in the -- in my
3 car and I got a sliver. And whenever I get a
4 sliver, I want to show you. This little sliver
5 was so small I just picked it out, but I get an
6 infection. Look at my infection -- my hand how
7 swole (sic) it is. I've been to the doctor and
8 had it operated on five different times 'cause
9 my hand will swell up like this. The only way
10 I can get by is if I take -- they put me on
11 high doses of predisone (sic). Well, predisone
12 causes me to have high sugar and high blood
13 pressure. That's the only thing that keeps me
14 going, so I'm always on these peaks and valleys
15 and we could sure use you guys' help if you can
16 help us settle a lot of these situations here
17 because it was -- and at that time -- I was
18 there when they had the fire and I worked in
19 the pressure suits and everything, and it was -
20 - it wasn't a pretty thing, so --

21 **DR. ZIEMER:** Thank you.

22 **MR. WYNN:** -- thanks.

23 **DR. ZIEMER:** Uh-huh. Yes, sir.

24 **MR. POSEY:** Yes, sir, I'm Robert Posey. I
25 would just like to say I've been denied my

1 claim twice, and those records -- I found out
2 in August 2003 that those records was destroyed
3 many years ago by Dow -- by a chemical company
4 up -- that -- over in their -- I have proved to
5 them that those records are not available, and
6 they have denied me. But they've got the first
7 time to mention anything concerning those lost
8 records. But they find some way to nit-pick
9 something out of there so they can deny it
10 without mentioning that these records is lost,
11 is shredded by the company up there many years
12 ago. All records that was kept over six years
13 or older, they destroyed those records. And
14 they -- the government and the claim handlers
15 have yet to mention, in either one of those
16 denials, that those records are lost and still
17 saying we have no evidence. I can't get no
18 evidence if they done destroyed the records.
19 I've proved this to them over and over and
20 over, and they still says we don't -- now some
21 other little company they wrote here in town,
22 they said that we have no record on him. I
23 don't know where it was the union, CPWO or
24 whatever it was, and they used that. Says CPWO
25 said they don't have no record on you. Well,

1 who is CPWO? I don't even know. I said now
2 the government got 30-something,000 workers up
3 there and they can't find the record. How
4 could you expect these four or five people over
5 here in some garage to find those records? I
6 just don't believe it can happen. Thank you.
7 **DR. ZIEMER:** Thank you. Again, thank all of
8 you for coming tonight. Again, we invite you
9 to return tomorrow. We'll have the formal
10 discussion of the Rocky Flats petition before
11 the Board beginning at 8:30 tomorrow morning.
12 (Whereupon, the meeting was adjourned at 9:50
13 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 April 26, 2006; and it is a true and accurate transcript of the testimony captioned herein.

I further certify that I am neither kin nor counsel to any of the parties herein, nor have any interest in the cause named herein.

WITNESS my hand and official seal this the 26th day of May, 2006.

STEVEN RAY GREEN, CCR**CERTIFIED MERIT COURT REPORTER****CERTIFICATE NUMBER: A-2102**