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

convenes the

MEETING 42

ADVISORY BOARD ON
RADIATION AND WORKER HEALTH

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Meeting of the Advisory Board on Radiation and
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-- "uh-huh" represents an affirmative response, and "uh-uh" represents a negative response.

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

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

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P R O C E E D I N G S

(8:30 a.m.)

WELCOME AND OPENING COMMENTSDR. PAUL ZIEMER, CHAIR

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

2 call the session to order. We begin our second
3 day of deliberations for the 42nd meeting of
4 the Advisory Board on Radiation and Worker
5 Health, remind you again to please register
6 your attendance with us in the attendance
7 folder that's in the outer foyer.

8 Before we go to -- directly to our agenda, we
9 have a couple of kind of housekeeping things to
10 take care of and we'll begin -- some of these
11 are sort of legal issues. We're going to begin
12 with Emily Howell from our legal counsel and
13 Emily will give us some information pertaining
14 to conflict of interest disclosure statements
15 and related matters. Emily.

16 MS. HOWELL: Yes. I just wanted to let you all
17 know what I just passed out at your seats is a
18 -- is a two-pronged thing. It's a consent to
19 post a conflict of interest disclosure
20 statement on the Board's web site, as well as

1 the actual contents of what will be in that
2 disclosure statement. The old Board members
3 may remember that you signed one of these about
4 -- a little over a year ago. They've been on
5 the Board's web page. Unfortunately, the newer
6 members of the Board have not had theirs
7 included and when I went through I just went
8 ahead and updated everyone. So hopefully
9 everything that you have in front of you
10 reflects the actual status of your waiver at
11 this time. And if you have any questions about
12 anything, including even your title or
13 biographical information that would be in the
14 disclosure statement, please feel free to make
15 a note of it on that copy to speak to me about
16 it and hopefully we can get that resolved
17 during this meeting so that those can go ahead
18 and be reposted to the web site. But just feel
19 free to grab me during a break or something if
20 you need to discuss -- and I do need you to
21 sign the consent page on the front and also,
22 once we have a version of the disclosure
23 statement that you're comfortable with, to
24 initial that as well.

25 **DR. ZIEMER:** Okay. So even if they signed one

1 before, a year ago, we need to --

2 **MS. HOWELL:** Yes, we're going to --

3 **DR. ZIEMER:** -- have a new signature.

4 **MS. HOWELL:** -- go ahead and -- go ahead and do
5 this on an annual basis.

6 **DR. ZIEMER:** Okay. And update all the
7 biographical materials or make corrections if
8 necessary.

9 **MS. HOWELL:** Yes, please.

10 **DR. ZIEMER:** Thank you very much. Any
11 questions for Emily on this issue?

12 (No responses)

13 Okay. Larry, I believe you have an
14 announcement or an item, also.

15 **MR. ELLIOTT:** I just wanted to make sure that
16 the Board and the audience were aware that we
17 have public health advisors -- Ms. Sharon
18 Jenkins and Tanya Carson are next door to us in
19 this room behind us here -- and they are
20 providing updates to claimants who have signed
21 up for an appointment to learn more about dose
22 reconstruction, learn more about their
23 particular claim and where it stands in the
24 process. So that's -- this is going to be
25 come custom for us to do this at Board

1 meetings. We sent out about 700 some-odd
2 letters to the active claimants in the -- in
3 this geographical area, noticing them that this
4 meeting was occurring and if they wanted an
5 appointment they simply had to call back and
6 schedule one and come in and we would provide
7 them information.

8 **DR. ZIEMER:** And Larry, if there are claimants
9 here who did not make an appointment but do
10 have questions, what should they do then?

11 **MR. ELLIOTT:** They -- they -- I think we have
12 some open time slots that we can take walk-ins,
13 and they should see me or see one of the public
14 health advisors, Sharon Jenkins or Tanya
15 Carson, and sign up.

16 **DR. ZIEMER:** Very good. Thank you. And Lew,
17 do you have some opening remarks at this point?

18 **DR. WADE:** Well, two very brief ones. As
19 always I thank the Board for its efforts. I
20 would also like to particularly commend the
21 Board for its due diligence as we move forward
22 in this area of SEC petitions and designations.
23 I think this is becoming a very important part
24 of what the Board does and I admire the Board's
25 willingness to -- to study this issue and make

1 improvements as it goes forward. I think it
2 serves everyone surrounding the program that
3 the Board does this precisely and correctly,
4 and I admire the Board's willingness to -- to
5 undertake that process. Thank you.

OVERARCHING SCIENCE ISSUES UPDATE
DR. BRANT ULSH, NIOSH/OCAS

6 **DR. ZIEMER:** Over the past several years the
7 Board has been cognizant of a number of issues
8 that relate, for example, to the determinations
9 of probability of causation insofar as there
10 are risk estimates made using certain standard
11 procedures, risk estimates, for example, that
12 come to us from the National Cancer Institute.
13 There are also related scientific issues that
14 deal with some of the modeling that's used for
15 dose reconstruction. And to give us an update
16 on those -- some of those scientific issues and
17 to get us thinking about how we track --
18 particularly ones that may be subject to change
19 or are undergoing change as new science becomes
20 available -- we're going to hear from Brant
21 Ulsh today and he will give us what we call an
22 update on overarching science issues.

23 **DR. WADE:** While Brant is getting ready, could
24 I ask if Dr. Poston is on the line?

1 (No response)

2 Is Dr. Poston on the line?

3 (No response)

4 Okay. Thank you.

5 **DR. ZIEMER:** Do we have a mike for the podium,
6 or is there a lavalier microphone that could be
7 used? Here comes --

8 **DR. MELIUS:** Someone ran off with it last
9 night.

10 **MS. MUNN:** Last time I saw it, it was on
11 somebody's jacket.

12 **DR. MELIUS:** Yeah, I know. They were looking
13 for it after the meeting last night, though.

14 (Pause)

15 **DR. ULSH:** Can everybody hear me okay? Speak
16 up? Okay. I'm fighting a cold anyway so I
17 didn't want to go without technical assistance.
18 So as Dr. Ziemer mentioned, I'm here to talk to
19 you about overarching science issues, and
20 perhaps the best place to start is to tell you
21 what we mean when we talk about overarching
22 science issues.

23 These are issues that have come up in a site-
24 specific context, or maybe in the context of a
25 small number of dose reconstructions, and they

1 have broader implications beyond just the
2 context where they come up -- sometimes across
3 the entire complex, sometimes just to parts of
4 the complex. But these are the kinds of issues
5 that I'm talking about this morning.

6 And at the Las Vegas Board meeting, the last
7 Board meeting that we had, the Board expressed
8 a desire that we capture these kinds of issues
9 so that none of them fall through the cracks.
10 And so what we have done in the interim between
11 the Las Vegas meeting and today is just to
12 begin to establish a list of these overarching
13 issues.

14 And this morning I'm not going to present the
15 NIOSH position on these issues. Rather, we're
16 just at the beginning stages where we capture
17 these issues in one place, and NIOSH will be
18 developing our positions on these issues and
19 presenting them to the Board for their
20 consideration. We anticipate that on most, if
21 not all, of these issues we will issue a
22 position paper, a White Paper, for the Board's
23 consideration. And also this morning we would
24 like to solicit input from the Advisory Board
25 to get your thoughts on -- well, anything

1 related to overarching issues, but in
2 particular the issues that you think are
3 perhaps more important than -- than others, or
4 even issues not currently on the list that you
5 would like to see added.

6 So with that introduction, let me see -- ah,
7 all right. Here is the list of issues that I'm
8 going to be talking about today. I won't read
9 through them because I'm going to cover them
10 each individually.

11 And the first of those issues is hot particles.
12 And what we're talking about here is particles
13 of radioactive material that are very active in
14 terms of the amount of radioactivity they emit,
15 and the prob-- or the issue here is handling
16 these hot particles in terms of when they
17 deposit on the skin or when they're inhaled or
18 ingested. Typically when we do internal
19 dosimetry calculations we calculate dose to an
20 entire organ. And the issue with these hot
21 particles is that the way that they deposit
22 dose in a particular organ can be very uneven.
23 In other words, parts of the organ in the
24 immediate vicinity of the hot particle get much
25 higher dose, but the organ as a whole doesn't

1 get a high dose. And the same kind of an
2 argument occurs when hot particles deposit on
3 the skin and you're talking about external
4 irradiation.

5 So this is a topic that we recognize has some
6 fairly important implications. It's not a
7 topic that's new to the health physics
8 community. There's a lot of information on
9 this in the health physics literature, and the
10 NIOSH evaluation is going to look at that
11 literature and come up with a position for how
12 we handle this in terms of a dose
13 reconstruction.

14 The next topic is the assumptions that we make
15 for unmonitored workers. I think there's
16 probably a lot of confusion out there about
17 what NIOSH does in situations like this, and a
18 lot of that is because our position has evolved
19 over time throughout our discussions with
20 various working groups of the Board and with
21 SC&A in terms of particular SEC petition
22 evaluations and TBD evaluations. There's been
23 a lot of technical interchange between the
24 groups that I've just mentioned, and our
25 position has evolved over time.

1 So we felt that it would be appropriate to come
2 to the Board with a coherent statement of our
3 position, when we might apply environmental
4 dose versus some percentile of measured
5 coworker doses, and just to let you know the
6 basis for NIOSH's position on this. So that is
7 one topic that I think is probably of great
8 interest, and we will be speaking to you about
9 that as we develop our position.

10 The next topic is manipulation of dosimetry
11 badges. And what I mean when I say this is
12 we've heard accounts from workers from a
13 variety of sites now -- Rocky Flats, NTS --
14 that for various reasons they didn't wear their
15 badges when they went into radiation areas.
16 And we would -- we're going to focus -- our
17 evaluation of this issue is going to focus only
18 on the technical aspects of this issue in terms
19 of how we recognize when this might have
20 occurred and how will we account for it in dose
21 reconstructions. As I mentioned, I have talked
22 about this issue in a -- in a site-specific
23 context when I presented the Rocky Flats
24 evaluation report presentation in April in
25 Denver. But we need to take a step back and

1 talk about this in a more generic format, how
2 it might apply across other sites in the
3 complex as well because we have heard those
4 accounts from workers at a number of site.
5 Okay, this is one that I talked about in Las
6 Ve-- well, two that I talked about in Las
7 Vegas, oro-nasal breathing and ingestion. We
8 are currently -- we have contracts with EG&G to
9 develop some research on these issues. I gave
10 you that schedule in Las Vegas. We are on
11 schedule -- as far as I know, anyway. We
12 anticipate having a report from EG&G on these
13 two issues by the end of the year, so this
14 might be one that we could present to the Board
15 fairly soon, I would think. This was a --
16 these two topics came up in terms of the
17 Bethlehem Steel TBD evaluation. And although
18 we came to a temporary -- I don't -- I don't
19 want to say temporary, but a limited agreement
20 on how to deal with that issue in those
21 contexts, again, we need to take a step back
22 and talk about this in a more generic format.
23 The next topic is cohort badging. And what
24 we're talking about here in terms of cohort
25 badging is the idea that when a group of

1 workers are doing the same kind of a job, maybe
2 only one worker, or maybe a subset of those
3 workers, is monitored for radiation exposure
4 and that dose is applied to the group as a
5 whole. I think there's been a lot of
6 perceptions developed about this practice, and
7 I think it's appropriate for NIOSH to come up
8 with our position and present it to you. We
9 need to talk about where and when it might have
10 occurred. And we also need to talk about, in
11 those situations where it did occur, what
12 effect that might have in terms of how we apply
13 coworker data. So I know this is a topic of
14 pretty great interest, so we're going to be
15 developing a White Paper on this issue as well.
16 Okay. The next topic is tracking materials
17 throughout the complex. And if anyone has a
18 shorter, snappier way to say this, I would
19 appreciate it because this is kind of
20 cumbersome. But this is an issue that was
21 raised by Mr. Clawson on the Advisory Board
22 during a working group meeting, and the poster
23 child example of this is radioactive lanthanum
24 that was used at the Los Alamos site and it was
25 the basis for a recent SEC recommendation.

1 Well, Mr. Clawson discovered that the
2 radioactive lanthanum that was used at Los
3 Alamos was actually produced at Idaho. And so
4 the obvious question is, if radioactive
5 lanthanum was the basis of an SEC petition at
6 Los Alamos and it was produced in Idaho, what
7 effect -- what implications might that have for
8 the Idaho site. And this is just one
9 particular example.

10 I think this is an important issue, not just
11 for radioactive lanthanum but for other issues
12 as well. It's important that when we make a
13 recommendation to establish an SEC class, we
14 consider what implications that might have at
15 other sites. As most of you know, the
16 Department of Energy atomic -- nuclear weapons
17 complex did not consist of isl-- sites that
18 were islands that didn't have any connection to
19 other sites. There were a lot of connections
20 between sites. Materials were produced at one
21 site, perhaps processed at another site and
22 used at a third site. So I think it's
23 important for us to consider the implications
24 not only at the particular sites where we
25 recognize an issue, but we ask ourselves where

1 else this might have implications for, so
2 that's what this issue is.
3 And the next topic is consideration of
4 incidents. Now when I'm talking about
5 incidents -- I guess part of our analysis is
6 going to be coming up with a definition of what
7 we mean when we say incidents. But for me, at
8 least right now, what this means is -- it could
9 be anything from an individual worker has a
10 small spill of radioactive material, that's one
11 end of the spectrum. The other end of the
12 spectrum might be criticality accidents that
13 occurred in Oak Ridge or major fires that
14 destroyed entire buildings at -- at Rocky
15 Flats, for instance. So what we want to do --
16 oh, this topic came up in the context of the
17 Hanford working group meeting about a week,
18 week and a half ago. And during that
19 conversation it was recognized or discussed
20 that this is particularly important in dose
21 reconstructions that are best estimates.
22 And for -- just for the public who may not
23 understand what I mean when I say this, these
24 are dose reconstructions that are not
25 overestimates, that are not underestimates, but

1 the probability of causation is fairly close to
2 50 percent. And so when we have dose
3 reconstructions like that, we really sharpen
4 the pencil and try to come up with a precise
5 estimate of dose reconstruction -- of the dose,
6 and we refer to these as best-estimate cases.
7 And these are the cases where particular
8 incidents could have an impact on the
9 compensability of the claim, so it's
10 particularly important in -- in those kinds of
11 situations. And we want to ensure that when
12 we're developing Technical Basis Documents,
13 site profiles, or considering SEC petitions,
14 that we capture the resources that are
15 available to summarize these incidents. The
16 example that was discussed in the Hanford
17 working group meeting was the database that
18 exists capturing incidents at the Savannah
19 River Site. And so this should really just be
20 a routine matter of course for us that we look
21 for those kinds of resources whenever we begin
22 developing a site profile. So this is one of
23 the issues that we've added to the overarching
24 issues list.

25 Okay. Finally, and briefly, I just wanted to

1 give you a status of where we are with CLL.
2 That's Chronic Lymphocytic Leukemia. This is a
3 topic of interest. It's been going on for some
4 time now. We asked our con-- our technical
5 contractor, SENES, to develop a prototype risk
6 model -- I guess maybe I should back up and
7 give you a little more background on CLL.
8 CLL is the one type of cancer that is
9 specifically excluded from coverage under Part
10 B of EEOICPA. In other words, it's not a
11 qualifying cancer. We don't do dose
12 reconstructions for people with CLL.
13 Well, some questions came up about that
14 exclusion. NIOSH has looked at the scientific
15 literature on this issue, and then we asked
16 SENES to develop this risk model and they have
17 developed this prototype risk model and
18 delivered it to us. The next step is going to
19 be that we will solicit outside expert opinion
20 on this risk model. Once that process is
21 complete, we will package the risk model, along
22 with our recommendation to the -- we'll put
23 that together in a decision package that will
24 be sent to the Secretary of Health and Human
25 Services for his decision on that issue.

1 And I believe that takes me to the end -- yes,
2 so I'd be happy to entertain any questions or
3 comments.

4 **DR. ZIEMER:** Very good, Brant. Let me begin
5 the questions by noting that in the case of
6 oro-nasal breathing and also in the case of
7 CLL, you have contracted that work out to
8 specific groups. Is it your plan that most or
9 all of these would be contracted out to sort of
10 expert groups as a first step in gathering and
11 interpreting the information before your staff
12 works on it, or --

13 **DR. ULSH:** Well --

14 **DR. ZIEMER:** -- will it be a mixed approach?

15 **DR. ULSH:** Let me take a crack at that and I'll
16 -- I'll look at Larry to make sure that I'm
17 saying the right thing. I think that decision
18 is going to be impacted by a lot of factors --
19 resource loading within NIOSH, what expertise
20 that we have in-house. Certainly we will look
21 for opportunities for discrete topics that can
22 be contracted to these expert groups like SENES
23 or to EG&G where it's a discrete bite of a
24 topic and they can develop a very discrete
25 product and hand it to us for review. But even

1 those that we do put out for contract, once
2 they're delivered to NIOSH it undergoes
3 internal NIOSH review and so -- I mean it's not
4 just that we take whatever a contractor --
5 subcontractors say, you know, at face value.

6 **DR. ZIEMER:** Let me follow that up with one
7 other question then. In a case like CLL where
8 you have SENES working on the report, let us
9 assume that they make a recommendation that
10 some risk factor be applied to CLL and that it
11 be considered. Would -- would you anticipate
12 that before that was recommended for NIOSH to
13 adopt, that you would have National Cancer
14 Institute look at that and sort of get their
15 buy-in? Because it seems to me in that kind of
16 a case that if it was at odds with what an
17 agency like NCI was recommending, we would have
18 a -- a problem. I think I would have a
19 problem.

20 **MR. ELLIOTT:** Certainly as we, in the early
21 days of the program, started looking for
22 precedent risk models, we talked with NCI, we -
23 - the law directed us to actually use the early
24 radioepi tables. And in this situation with
25 CLL we certainly would avail ourselves of their

1 expertise. I imagine that would happen at the
2 point where it goes to the Secretary and the
3 Secretary makes sure that the other agency
4 within the Department has an opportunity to
5 comment. But we have -- we have collegial
6 contacts that Brant and Jim Neton and Russ
7 Henshaw and others on the OCAS staff make with
8 the National Cancer Institute folks, so -- I
9 would add that, you know, this will require
10 rule-making because it would change our rule,
11 so the Secretary's package would be essentially
12 a decision to proceed with rule-making -- a
13 change to the rule.

14 **DR. ZIEMER:** Right. And in any case the other
15 agency would then have an opportunity to
16 comment, so --

17 **MR. ELLIOTT:** Yes, at that point.

18 **DR. ZIEMER:** Right. Well, there's a number of
19 flags up. Let's go around the table; I didn't
20 see who went up first, but Dr. Roessler, why
21 don't you start.

22 **DR. ROESSLER:** On the CLL decision, I don't see
23 in the process that the Board will be brought
24 in for advice or a vote or any -- anything
25 else.

1 **MR. ELLIOTT:** Well, if you recall, as -- as
2 part of our rule-making procedures, the Board
3 is included in that. So once we have developed
4 a risk model that NIOSH is comfortable with and
5 the Secretary has signed off on, we would
6 present this to the Board as part of the
7 gathering of public comment. You'd be
8 incorporated in that process.

9 **DR. ROESSLER:** I think that should be on the
10 slide next time.

11 **DR. ZIEMER:** Okay. Michael?

12 **MR. GIBSON:** Brant, I believe you mentioned
13 that EG&G's been contracted to do the study on
14 the oral nasal breathing?

15 **DR. ULSH:** Yes.

16 **MR. GIBSON:** They've been a government-operated
17 contractor for several DOE sites. Are any of
18 the same people that perhaps worked in the
19 health physics departments at those sites doing
20 this study? And if not (sic), isn't that a
21 conflict?

22 **DR. ULSH:** Larry, do you want to...

23 **MR. ELLIOTT:** You're certainly correct that
24 EG&G has been a principal contractor, MEO
25 contractor, at many of the sites. The people

1 that we have engaged through the EG&G contract
2 are following the conflict of interest policy
3 that NIOSH has -- is currently implementing.
4 Their disclosures will be posted on the EG&G
5 web site, a link from our web site to theirs.
6 It's -- to my knowledge, the individuals that
7 have been brought to bear on this particular
8 task are not conflicted, they have not served
9 in any other site. These are -- these are
10 research scientists that have been engaged in
11 the contract that we have with them, so...

12 **DR. ZIEMER:** Thank you.

13 **MR. GIBSON:** So --

14 **DR. ZIEMER:** You have a --

15 **MR. GIBSON:** -- doesn't that kind of --

16 **DR. ZIEMER:** -- follow-up on that?

17 **MR. GIBSON:** I mean it's -- kind of sounds like
18 the same thing with ORAU, that -- you know, I
19 hear a lot of them say there's no personal
20 conflict, and yet there could be corporate
21 conflict. Can you explain the difference
22 there?

23 **MR. ELLIOTT:** Well, I would say that EG&G
24 perhaps has a corporate conflict at -- at sites
25 where they have had, you know, a responsibility

1 to manage a given DOE facility. As I said,
2 these individuals that -- that have been
3 brought to bear on this particular task did not
4 serve at -- my understanding, they did not
5 serve in any capacity -- professional capacity
6 at one of those sites that puts them
7 individually as -- in a conflict. So the
8 corporate conflict comes to bear where they're
9 working on something that's relative to a given
10 site document. And in this case, this is an
11 overarching or general issue, so I think we're
12 going to have to look at that closely and sort
13 that out. Again, these are products that are
14 being developed by these contractors, but at
15 the end of the day they will be a NIOSH
16 product, they'll be a NIOSH document, so we'll
17 -- we'll put our seal of approval on them and
18 they will be essentially developed by
19 ourselves. These are the starting points that
20 we're asking EG&G to deliver to us.

21 **DR. ULSH:** And Mike, I understand your
22 question. If you look at the alternative,
23 though, and that's to have NIOSH do all of
24 these in-house -- for instance, I might do oro-
25 nasal breathing or ingestion -- I have a

1 conflict at the Fernald site, so I'm not a
2 completely conflict-free individual. But what
3 that means in terms of how we do our business
4 is that I don't do anything related to the
5 Fernald site. In terms of these overarching
6 issues, I could do that. I could work on those
7 types of issues. So the same -- I think the
8 same kind of standards are going to be applied
9 for the contractor that we hired to do this.

10 **DR. ZIEMER:** Okay. Dr. Melius.

11 **DR. MELIUS:** Yeah, I -- just to follow up. I
12 mean I think -- I think this needs scrutiny. I
13 mean we've talked about this and the issue of
14 where we had particular issues that affect
15 multiple sites and just -- but mainly focus on
16 a few and there's certainly the potential for a
17 conflict of interest there and I -- I would
18 just urge that you look at it very -- very
19 closely. I'm not saying particularly on this
20 issue, but in these issues in general that
21 there certainly is the potential for the
22 appearance of conflict of interest and I would
23 hope you pay very careful attention to it.
24 On CLL, just to -- in terms of follow-up, I'm a
25 little confused. We've discussed this before.

1 We've discussed other scientific issues and
2 I'll get to that in a second, but this -- my
3 recollection is that the process on these
4 issues -- the original process was that NIOSH
5 would work on these issues and then come to the
6 Board for advice. And suddenly we now have the
7 Secretary in between and we're -- we're --
8 we're -- we're suddenly relegated to another
9 group that provides public comment, and I don't
10 quite understand why that's the -- the case in
11 this particular instance and why this change
12 has taken -- taken place.

13 **DR. ZIEMER:** I believe that's probably only
14 true for the CLL case where there's a -- some
15 specific things in the regulation that excludes
16 CLL so it has to go through the rule-making.
17 In any event, I don't think that's true of
18 anything else here that I see. Is that
19 correct?

20 **DR. MELIUS:** Well, the -- depends on the nature
21 of the changes that would take place on these
22 other issues, also. If you recall, there's a
23 provision that some issues need to be vetted
24 publicly before they're -- and through the
25 Board before they're -- though not -- they're

1 not necessarily rule-making issues. So I guess
2 I'm trying to understand is this somehow now
3 presumed that there will be a rule-making
4 change here? I mean it -- to me, one of the
5 outcomes of their report and so forth could be
6 that no change needs to take place, so I'm just
7 puzzled by the change in procedure. And I have
8 some other questions after that.

9 **DR. ZIEMER:** Well, and maybe to address it in a
10 slightly different way, take another one of
11 these such as assumptions for unmonitored
12 workers, what would be the path that would be
13 followed as you develop a position and so on?

14 **MR. ELLIOTT:** In that example, assumptions for
15 unmonitored workers, the White Paper, we'd
16 present it to the Board, you know, in one of
17 your meetings and we'll seek your input and
18 your advice, your recommendations about that.
19 Conversely, though, where we're talking about a
20 -- a risk model that would be used for CLL,
21 that goes to a rule change. Our -- our current
22 rule excludes Chronic Lymphocytic Leukemia.
23 And I'd look to General Counsel to help out on
24 this, but my understanding is because it's a
25 rule-making effort, if we come forward with a

1 risk model on CLL, the Secretary -- the Office
2 of Secretary has to be satisfied that it's a --
3 good science, it's appropriate for us to do
4 this and to modify the rule to include CLL. At
5 that point then we would come before the Board
6 and present the risk model and -- and it would
7 be that -- that would be the opening public
8 venue for discussing this. To do so beforehand
9 is -- it's my understanding it's ex parte
10 communications and we can't bring it to the
11 Board before the Secretary's Office has signed
12 off on it.

13 **DR. ZIEMER:** Did you have a follow-up on that?

14 **DR. MELIUS:** I have lots of follow-up questions
15 -- several, anyway.

16 **DR. ZIEMER:** Go ahead.

17 **DR. MELIUS:** The -- I believe that we at one
18 point -- I'm a little puzzled by calling these
19 overarching science issues. I -- if you
20 remember back many years ago we had a list of -
21 - I don't remember what we called them, but
22 they were scientif-- I think they were just
23 plain scientific issues, and a number of those
24 we haven't heard about for quite some time. I
25 believe CLL was actually one of those --

1 **UNIDENTIFIED:** CLL was one of those.

2 **DR. MELIUS:** -- one of those original issues,
3 but there are other issues related to smoking,
4 adjustments for smoking, potential for
5 adjustments for age at first exposure and --
6 and so forth, and those seem to have gone by --
7 by the wayside. And I guess I'm particularly
8 disturbed that we're now calling these
9 overarching scientific issues and seem to have
10 forgotten about those others, and particularly
11 as NIOSH is a scientific agency, one would have
12 hoped we -- to have seen some progress,
13 particularly in things like age at first
14 exposure where there's a significant amount of
15 recent scientific information that would be
16 helpful for dealing with that. And I guess I'm
17 -- my question to Larry or Brant is what's
18 happened to those -- those other issues?

19 **DR. ULSH:** When I put this list together, Dr.
20 Melius, I was primarily trying to capture --
21 and perhaps the name of -- that I put on this
22 presentation was a bit misleading. I was
23 primarily trying to capture issues that have
24 come up in a limited context -- for instance, a
25 dose reconstruction or at a particular site --

1 that have implications beyond the particular
2 context in which it came up.
3 You know, certainly we have not forgotten about
4 those other scientific issues, and really I
5 would put CLL in the category of those other
6 scientific issues. The ones that you
7 mentioned, the age at exposure, that is
8 certainly still of interest to us. The smoking
9 adjustment, we presented on that before. So
10 those other issues -- I understand your
11 concern. Those other issues have definitely
12 not gone away. I just -- we just put those in
13 a separate category of science issues, not
14 things that were raised in a particular context
15 that have more broad implications.

16 **DR. ZIEMER:** Larry.

17 **MR. ELLIOTT:** This is -- you know, this is a
18 good discussion to have because we don't -- we
19 don't know if we've got the list right, so
20 that's why we're bringing this list to you.
21 Smoking adjustment I think we have attended to.
22 We've addressed that. We presented it a couple
23 or three times to the Board. We've taken a
24 position on it and we have -- we have put in a
25 Program Evaluation Review on smoking

1 adjustment. So you know, I -- maybe that's not
2 off the list in some people's minds and we need
3 to hear that if that's the case, if we need to
4 satisfy you that we've attended to that
5 satisfactorily.

6 But certainly age at -- age adjustment is
7 something that should be on the list. We
8 haven't done anything with that. We need to --
9 we need to have a position paper on that. If
10 there are others, we need to hear about those
11 as well, so not to slight the previous work on
12 the science issues, not to say that that's off
13 the table, these seem to have been, you know,
14 more of concern and we wanted to make sure that
15 we had this list right. We certainly can add
16 to it.

17 **DR. MELIUS:** Yeah, I -- my -- my concern would
18 just be as time goes by we sort of lose those
19 other issues and -- I mean one doesn't want
20 this -- the science to become -- at least the
21 program is run, to sort of stagnate in terms of
22 its scientific basis. Yeah, I -- I think the
23 title for this list is -- is misleading. I
24 think most of these are really -- I mean
25 they're -- there are scientific aspects to

1 them, but they're sort of tech-- technical and
2 procedural issues related to -- to dose
3 reconstruction and I'm not sure how much
4 science can go -- go into some -- some of these
5 'cause a lot of them are questions of what do
6 you do when you don't have information and how
7 do you appropriately adjust and -- and so forth
8 for that. So --

9 **DR. ZIEMER:** Actually it appears to be kind of
10 a mix of science and -- and technical issues.
11 I have another question -- or if Wanda has one,
12 go ahead.

13 **DR. MELIUS:** I have just one brief comment is
14 that's re-- regarding the incidents, a little -
15 - little revision to history here. I think
16 we've been talking about incidents long before
17 we had the Hanford workgroup a couple of weeks
18 ago. That's probably the most recent
19 discussion, but I -- I think it's -- it's
20 something we've struggled with in terms of how
21 to track those and, you know, identify those at
22 -- at particular sites. I just would remind
23 you we do also have a --

24 **DR. ZIEMER:** (Unintelligible) at Nevada Test
25 Site --

1 **DR. MELIUS:** Yeah.

2 **DR. ZIEMER:** -- context and some others as
3 well.

4 **DR. MELIUS:** Yeah, and we have a workgroup, and
5 I believe you were at least on the phone or at
6 the meeting, Brant, I can't remember, when we
7 met with the workgroup on --

8 **DR. ULSH:** Yes, I was.

9 **DR. MELIUS:** -- dealing with the less than 250-
10 day, which is really -- focuses on the incident
11 issue, so I would be -- I think we need to be
12 careful we don't get sort of too many groups
13 looking at incidents and so lose track of -- of
14 what's going on.

15 **DR. ZIEMER:** Okay. Wanda?

16 **MS. MUNN:** Just a couple of comments with
17 respect to incidents. It is surprising how
18 differently that word is interpreted from one
19 site to another, and it would be helpful I
20 think for all of us to try to distinguish some
21 sort of baseline about what does and does not
22 constitute an incident. So far as I know, that
23 has not been done. If it has been done, I'm
24 not aware of it. If we wanted to undertake
25 that, it might be helpful both for this Board

1 and NIOSH for us to very clearly define the
2 parameters of what does constitute an incident
3 because it does obviously vary very clearly
4 from one group to another and from one site to
5 another.

6 The other thing is, with respect to the word
7 "overarching," I think that came out of
8 discussion in several of the working groups
9 where the term was utilized to identify issues
10 that affect more than one site and -- they
11 can't be resolved simply by saying "at this
12 site this is the way we're going to look at,"
13 for example, oro-nasal breathing. It is
14 something which overarches all of the work that
15 we do and would apply at multiple sites. So
16 the working group probably has to take
17 responsibility -- some of the working groups
18 have to take responsibility if the terminology
19 is at fault there.

20 **DR. ZIEMER:** Okay, good point. The word
21 "incident" I think not only is different from
22 site to site, but it has changed in time in the
23 DOE complex in terms of the threshold of what
24 constitutes a, quote, incident -- such as a
25 contamination incident or whatever incident

1 you're talking about, a spill and so on, and so
2 incident is one of those words that means many
3 things to many people and we would have to
4 define what we mean by it when we address it,
5 but --

6 **DR. MELIUS:** Okay, can I respond to -- to both
7 those points? One is I was not arguing that
8 NIOSH should not be doing a White Paper on
9 incidents or whatever, I -- my argument was
10 just -- concern was just that they be
11 coordinated and that we have some immediate
12 needs in dealing with the 250-day issue that I
13 don't think we want to wait however long it'll
14 take to do a White Paper, but we coordinate on
15 how we're approaching that and -- so we don't
16 have several left-hand/right-hand situation
17 with that. And my concern about overarching
18 science issue -- science issues was not the
19 overarching part of it but the science part of
20 it. I think it's a little more focused than
21 that.

22 **DR. ZIEMER:** Thanks for clarifying. Brad?

23 **MR. CLAWSON:** I also want to talk about this
24 incidents or oops or whatever they want to call
25 it. Part of my problem was in the technical

1 database they addressed some of these but they
2 did not address the effects that it had. And I
3 have to take my personal experiences with a lot
4 of this. At the sites they call out -- in my
5 site -- that there was no release to the
6 outside public, but it didn't take --

7 **DR. ZIEMER:** And therefore it was not an
8 incident.

9 **MR. CLAWSON:** Therefore it was not an incident,
10 but it took over a year and a half to decon the
11 facility down to where a person could go in
12 there, plus which increased radiation internal
13 dose, people with a lot of skin contaminations
14 and so forth and this is -- this is what I was
15 trying to address. It seems like to me that
16 the technical database addresses it but does
17 not address it in the detail and when we write
18 these we need to make sure that a lot of these
19 things are taking in consideration. That was
20 my issue.

21 **DR. ZIEMER:** Thank you. Brant, I wonder if you
22 know or if maybe other Board members, like Gen
23 Roessler, would know whether the ICRP is
24 looking at the oro-nasal issue at all in terms
25 of up-- updating the lung model?

1 **DR. ROESSLER:** I think they are.

2 **DR. ZIEMER:** Because if they are doing that, it
3 would be of value to the EG&G group to exchange
4 or at least touch base with those folks -- I
5 forget which committee it is, but that lung
6 model is sort of up-- undergoing updating. And
7 we don't want to end up in a different place
8 than ICRP on that issue, I would guess. So --
9 and maybe you've already touched base, but if
10 not, we need to make sure that that occurs.

11 **DR. ULSH:** Thank you. We'll make sure that we
12 do.

13 **DR. ZIEMER:** Jim or Brad, you have a comment to
14 make?

15 **DR. MELIUS:** I'm sorry, I'm done for now.

16 **DR. ZIEMER:** Dr. Wade?

BOARD TRACKING SYSTEMS DISCUSSION

17 **DR. LEWIS WADE, EXECUTIVE SECRETARY**

18 **DR. WADE:** Just to stimulate the discussion a
19 bit further, the next item on the agenda this
20 morning was to talk about how the Board wishes
21 to track these issues, and I think Dr. Melius
22 has framed the issue excellently. There are
23 two separate streams here. There are the
24 science issues that have been on the agenda off
25 and on that NIOSH is tracking and reporting to

1 the Board that -- CLL, smoking, age at first
2 exposure, there's that stream.

3 And now we have a new stream developing and
4 that is where workgroups see an issue that they
5 feel is bigger than their particular site and
6 they say that that issue needs to be addressed
7 at some point. They basically take it off
8 their agenda and put it somewhere. That forms
9 another list, and that's the bulk of what Brant
10 has listed here.

11 The question I have for the Board is how do you
12 want to, one, track those issues; and secondly,
13 how do you want to ensure that energy is
14 provided to them? In the discussion of the
15 science issues that Dr. Melius led, it's clear
16 that we need more energy applied to those
17 issues to keep them current, keep the work
18 going. I also worry about the overarching
19 issues falling through the cracks. The
20 workgroup doesn't have them. The only place
21 they're discussed is when the Board gets
22 together. That's usually in a hurried mode,
23 without a lot of -- of time devoted to it. So
24 I think we have these two issues. Whether the
25 solution is common or not, I leave that to you.

1 But we have the science issues that NIOSH is
2 working; we need more energy and focus I think
3 there. Then we have these overarching issues
4 that are coming from the workgroup that at this
5 point sort of sit in limbo, and they need to be
6 tracked, owned and worked by somebody, and
7 that's the issue I would like to bring to you
8 for discussion and resolution.

9 **DR. ZIEMER:** Okay, and you've kind of
10 transitioned us into the Board tracking system
11 --

12 **DR. WADE:** Right, we can wait for --

13 **DR. ZIEMER:** -- thus avoiding the break which
14 is -- no, it's too soon for a break anyway, but
15 let me start -- I'll start a response to that
16 so we have something to shoot at.

17 Number one, perhaps we could think about two
18 tracks. One is the -- the two science issues,
19 and I think you've got several in here that are
20 in that category. CLL is one. I would guess
21 hot particles would come into that category,
22 and probably oro-nasal breathing. And I think
23 all three of those may have been on the
24 previous, quote, science list. I'm not -- I
25 know CLL was and I'm pretty sure we've talked

1 about hot particles before in some context.
2 But in any event, the ones here that are
3 something else, like manipulation of badges or
4 tracking materials through the complex, number
5 one, is maybe a separate list. I'm not sure
6 what we'd call it at this time. Somebody can
7 take up a clever name, but don't call it non-
8 scientific issues, but something other than
9 that. And then I think NIOSH has just told us
10 that they have begun work or are beginning to
11 determine how to address each of these, so what
12 -- as a starter, we need a regular update on
13 progress on that.

14 The Board will need to determine at some point
15 whether it wishes to have any workgroups
16 involved. Now on one of these issues at least,
17 and that's sort of the incident issue --
18 quote/unquote -- is at least in part being
19 looked at by the -- the SEC 250-day -- I forget
20 the proper name of that workgroup, but --

21 **DR. MELIUS:** Whatever it is, yeah.

22 **DR. ZIEMER:** -- it's Dr. Melius's workgroup, so
23 he was rightfully protecting his turf with his
24 questioning, but -- so that -- that's one that
25 sort of has a workgroup also involved in that

1 on an ongoing basis. And there may be others
2 that you would say, you know, we sort of want
3 to be more actively involved as we proceed
4 forward, and others you may say well, let's see
5 what NIOSH comes up with and -- and then go
6 from there. So I'm not necessarily suggesting
7 these, but trying to stimulate your thinking so
8 that you can see what you'd like to do.

9 Wanda, and then Jim.

10 **MS. MUNN:** Because of --

11 **MS. HOMOKI-TITUS:** I hate to interrupt, but
12 there are some people on the phone that I don't
13 think have it on mute and we can hear a
14 conversation but we can't hear you. If you
15 could ask people to put their phones on mute,
16 that would be great.

17 **DR. WADE:** Could you speak -- could you speak a
18 little bit clearer, Liz, so we can hear you?

19 **MS. HOMOKI-TITUS:** I'm sorry, I was just saying
20 we can't hear what you all are talking about
21 'cause there are a number of people that don't
22 have their phones on mute, so we can hear other
23 conversations but not Dr. Ziemer.

24 **DR. WADE:** Okay.

25 **MS. HOMOKI-TITUS:** Thanks.

1 **DR. WADE:** So two -- two rules now. I would
2 ask everyone on the line to mute their phone.
3 If you're not speaking, then mute your phone
4 out of respect for the other listeners. And I
5 would ask all of us at the table to speak
6 loudly and clearly into the microphone.

7 **DR. ZIEMER:** Okay. Thank you. Now, Wanda.

8 **MS. MUNN:** With respect to the potential of
9 splitting the concerns we've been discussing
10 into scientific based issues and other issues,
11 the terminology for the other issues might
12 appropriately be site-wide technical issues, if
13 we really do want to make that distinction
14 between the two.

15 **DR. ZIEMER:** Okay. Thank you. Jim?

16 **DR. MELIUS:** Can't resist -- or multiple site
17 technical issues, not always site-wide, but I -
18 - either one is fine. But --

19 **DR. ZIEMER:** That's the idea then.

20 **MS. MUNN:** Complex --

21 **DR. ZIEMER:** Complex-wide.

22 **MS. MUNN:** -- complex.

23 **DR. MELIUS:** Okay.

24 **DR. ZIEMER:** For now we're calling them
25 complex-wide technical issues.

1 **DR. MELIUS:** Issues, yeah.

2 **DR. ZIEMER:** Okay. It's nice to agree on
3 something. Okay. Jim.

4 **DR. MELIUS:** We have a book -- no. I would
5 point out that there are other issues that are
6 complex-wide that are -- various Technical
7 Information Bulletins, some of which we have
8 under review. I actually think the
9 construction worker TIB that we talked about I
10 believe at the last meeting or meeting before
11 that would -- would sort of fit into this --
12 this category also. And I would just urge that
13 if we're going to track some of these that we -
14 - we already have SC&A looking at a number of
15 these issues. They're looking at the
16 construction TIB, I believe they're -- they're
17 -- in the procedures list of reviews I believe
18 they're looking at a number of others that
19 would fall into this category that we --
20 whatever the tracking system is, that we
21 include all of those sort of thing that would
22 fit into this defin-- you know, some definition
23 of complex-wide technical issues 'cause I think
24 it would make it easier to keep track and avoid
25 duplication or actually build on some of the

1 reviews that we might have done -- done
2 earlier. Some of these I believe come out of -
3 - are taken from actually procedures that are
4 developed for a particular site and then they
5 are -- develop a new procedure, allows them to,
6 you know, generalize that to more than -- than
7 one site, and so it would help us I think if
8 we, you know, recognize that and kept a more
9 comprehensive list. But I would also think
10 that for some of these -- these numer-- issues
11 on this recent list that -- I'm certainly not
12 familiar with them, haven't come up in
13 workgroups I've been involved in. But we might
14 want to try to at least as -- since it's early
15 in the process for NIOSH -- do that -- to just
16 solicit some input from the Board and others on
17 these -- you know, doesn't have to be at the
18 meetings, can be afterwards or something.
19 Maybe if -- particularly if we saw the scope of
20 what's being looked at and then if -- I think
21 if we were tracking them, then we could decide,
22 you know, how to best review them if that's
23 appropriate or do we wait, or do we have SC&A
24 look at -- review the -- review them, you know,
25 what do we think is the best steps to take.

1 **DR. ZIEMER:** Thank you. I suspect on the
2 construction worker issue, probably it would
3 make sense to be on this list. It's a complex-
4 wide -- and that's pretty far along. But in
5 any event, would it be reasonable to ask that,
6 for example, as we move forward to future
7 meetings, that we not only have a report on --
8 I mean just an update, but maybe at each time
9 pick out one of these, maybe one that's pretty
10 far along and -- and describe what's being
11 done, without presenting a final position but
12 perhaps saying here's -- here are the issues
13 we're looking at, here -- something like that.
14 I don't know if we can do that in the framework
15 -- I mean understanding that, for example, on
16 CLL there are certain restraints in terms of
17 the rule-making process that might prevent
18 something that looks like a final report from
19 coming to us. But on some of these -- for
20 example, assumptions for unmonitored workers,
21 maybe we have a presentation that sort of --
22 what's -- what's your thinking on the approach
23 and maybe solicit some input before the thing
24 is too far down the road. I'm thinking off the
25 top of my head here, but I'm wondering if we

1 couldn't keep the issue before us by having it
2 a regularly-scheduled part of the session.

3 **MR. ELLIOTT:** Certainly I think that would be -
4 -

5 **DR. ZIEMER:** The two -- the two lists.

6 **MR. ELLIOTT:** I think that would be very
7 beneficial to everybody and keep us on track.
8 It'd hold us accountable for speaking about
9 where we're at on these things. I think we
10 need to come forward with a timeline for you
11 all, too, that speaks to where -- you know,
12 where we anticipate --

13 **DR. ZIEMER:** On each item.

14 **MR. ELLIOTT:** -- on each item where we
15 anticipate something's going to be provided to
16 the Board for your full deliberation. And
17 certainly as we approach that, you know, we can
18 share with you where we're at at a given point
19 in time.

20 **DR. ZIEMER:** Right, right.

21 **MR. ELLIOTT:** Yes, I think that would be
22 perfect.

23 **DR. WADE:** Let me add another thought for the
24 Board to consider on the complex-wide technical
25 issues. The matrix approach has served the

1 working groups well where all of the issues are
2 together, a time line is kept, progress is
3 tracked, resolution is noted, follow-up to
4 resolution -- I think it might be worth
5 considering a matrix that NIOSH would maintain
6 for complex-wide technical issues and bring
7 that to the Board, or whoever the Board
8 designates, at regular intervals. My fear is
9 that these things are falling through the
10 cracks.

11 One sort of nuance of this for the construction
12 workers, for example, if a complex-wide
13 technical issue revolves around a Technical
14 Information Bulletin or results in a Technical
15 Information Bulletin, then there's the
16 opportunity for SC&A to review that as part of
17 the procedures. What's happening with some is
18 that they exist outside of that universe and
19 therefore they're nowhere to be reviewed and --
20 and I don't think that serves us well. So I
21 think we need to capture them, and then the
22 Board can decide whether energy needs to be
23 brought to bear to be -- to review them. But
24 some of them are just out there in -- in limbo
25 now. So I would think a matrix might not be a

1 bad thing for the Board to consider.

2 **DR. ZIEMER:** Okay. And Larry is nodding in
3 apparent agreement with that. Thank you.
4 Wanda Munn?

5 **MS. MUNN:** First steps for some of our more
6 simple minds would be an actual list of the
7 items themselves. We --

8 **DR. ZIEMER:** Yes, I think it -- I think it's
9 two lists, is what -- the scientific and the
10 complex-wide list.

11 **MS. MUNN:** Exactly.

12 **DR. ZIEMER:** Yeah.

13 **MS. MUNN:** Exactly. What Brant has shown us
14 is, from my perspective, a good start.

15 **DR. ZIEMER:** Uh-huh.

16 **MS. MUNN:** But if we're going to have -- if
17 we're going to agree on what needs tracking,
18 then first and foremost, lists of that --

19 **DR. ZIEMER:** Yeah.

20 **MS. MUNN:** -- those items.

21 **DR. ZIEMER:** And perhaps at our next meeting
22 those lists can appear with at least a start of
23 the time line.

24 **DR. WADE:** Could I even be a bit more
25 aggressive? Is it possible to have lists --

1 those two lists for the Board to consider
2 tomorrow? I mean we -- I think we know what
3 the issues are. Not time line, but just a list
4 of the items. I don't -- I hate to wait three
5 months.

6 **DR. ZIEMER:** Or for the -- or for our phone
7 meeting.

8 **DR. WADE:** Okay, I mean I --

9 **MR. ELLIOTT:** I'd really like to have -- I'd
10 really like to have Dr. Neton's input into this
11 and I don't know I can get it by tomorrow.

12 **DR. WADE:** For the phone meeting then.

13 **MR. ELLIOTT:** There's phone, yes. I -- I would
14 like to bring forward the two lists, I'd like
15 to bring forward a time line that speaks
16 specifically to each item on the list, and I'd
17 like to bring forward a shell of a matrix that
18 would be used to track the -- the completion of
19 these individual efforts that are on this lis--
20 on these two lists, and I think we can
21 certainly have that prepared in advance of your
22 telephone call next, and then bring it up --
23 I'm a little reluctant to say I can commit to
24 having something for you tomorrow --

25 **DR. WADE:** That's fine.

1 **DR. ZIEMER:** That's --

2 **MR. ELLIOTT:** -- or have a complete list. I've
3 realized here that this list is being viewed as
4 incomplete, and I'd hate to have a second
5 chance and miss the target again.

6 **DR. ZIEMER:** No, I -- but -- I understand that
7 the-- these are issues that have arisen in the
8 last few months in the framework of some of the
9 work that's being done and -- and it -- now is
10 a good point to meld that into the previous
11 lists of things and -- and to integrate all
12 that work. So -- and we do have a phone
13 meeting scheduled in January, so that would be
14 an appropriate time to -- to have that
15 material.

16 Mr. Presley.

17 **MR. PRESLEY:** Let me -- let me just say that I
18 think that this is a very good starting list.
19 I don't think you've missed the boat at all,
20 but I do think it's a -- it's a start and I
21 think we can add to it.

22 **DR. ZIEMER:** Thank you.

23 **MR. PRESLEY:** I appreciate what's been done on
24 it.

25 **DR. ZIEMER:** Yeah. Okay. Any further comments

1 on either specific questions on the issues that
2 were discussed or on the actions for going
3 forward?

4 (No responses)

5 I think there's a -- we don't need to take a
6 formal vote. I think there's consensus here
7 that it makes sense to -- to track these things
8 and to keep them before the Board on an ongoing
9 basis, including time lines and progress.
10 Now we do have a break scheduled. We'll go
11 ahead and take the break, reconvene at 10:00.
12 Remind you again that it's our understanding
13 that Senator Obama will be here at 11:15 this
14 morning, to my knowledge, if he got home from
15 the football game last night. I saw him on TV
16 with a Bear -- Bears hat on and I don't know
17 how much celebrating went on -- I -- I better
18 stop right there. Anyway, Senator Obama's due
19 at 11:15.

20 (Whereupon, a recess was taken from 9:45 a.m.
21 to 10:09 a.m.)

BOARD ADMINISTRATIVE ISSUES
DR. LEWIS WADE, EXECUTIVE SECRETARY

22 **DR. ZIEMER:** I'd like to call the meeting back
23 to order. The next item on our agenda is
24 called Board administrative issues. Now Board

1 members, let me explain what that means. In
2 the past couple of meetings Board members have
3 raised some concerns about keeping track of
4 their, quote, earnings that they get as being
5 Board members, and also their travel
6 reimbursements. There've been some issues
7 relating to state income tax being withheld by
8 the State of Georgia where CDC is located, and
9 some Board members have encountered
10 difficulties with that. There's also been some
11 questions on the consulting rates and concerns
12 that there's not equity between this Board and
13 a sort of sister Board, the DTRA veterans'
14 board. So we have with us today Elaine Baker,
15 who's the personnel person for --

16 **DR. WADE:** No, committee management.

17 **DR. ZIEMER:** -- committee management person
18 from CDC. And I think also on the line -- do
19 we have -- is it Janie Oddy?

20 **DR. WADE:** Yes, we should have Janie Oddy, a
21 personnel person from CDC on the line. Janie,
22 are you with us? She's calling in as we speak.

23 **DR. ZIEMER:** Okay.

24 **DR. WADE:** By way of introduction, Elaine Baker
25 is the committee management officer for CDC.

1 She's an important lady, and she agreed to come
2 and to speak to us and to try and answer your
3 questions, or to assuage your fears.

4 **DR. ZIEMER:** Okay. And I understand, Elaine,
5 that you don't necessarily have a formal
6 presentation but are here to answer questions
7 that Board members have. Why don't you begin
8 with that issue of is there -- does this Board
9 get the same -- the same --

10 **MS. MUNN:** Compensation.

11 **DR. ZIEMER:** -- is it called a consulting rate?

12 **MS. MUNN:** Compensation.

13 **DR. ZIEMER:** Compensation as the DTRA Board, do
14 you know the answer to that?

15 **MS. BAKER:** Okay, I'll give you a little
16 background information. The --

17 **DR. WADE:** Closer to the microphone.

18 **MS. BAKER:** The General Service Administration
19 has a delegated authority from the President to
20 administer the Federal Advisory Committee Act.
21 In July of 2001 it published a final rule that
22 provided information regarding maximum amounts
23 that may be paid to advisory committee members.
24 Also in that rule it states that an agency head
25 can determine whether or not to pay that

1 maximum amount. The maximum is level four of
2 the executive schedule, and that equates to
3 about \$550 per meeting -- I'm sorry, per day.
4 The Department in 2001, after the publication
5 of the final rule, looked at this issue and
6 looked at all of the optives -- HHS optives.
7 The Secretary made a determination in 2002 that
8 all HHS optives should pay a maximum of \$250.
9 CDC, dating back from 1983 to 2000, raised its
10 rate from \$100 per day in 1983, in 1988 to
11 about \$188 and in 2000 to \$250. Now the
12 exceptions to this is if in the legislation it
13 states a specific rate, then that committee
14 will pay its members according to that rate.
15 **DR. ZIEMER:** Okay. So I think the answer then
16 is that this is the HHS amount, and this has
17 been in effect for how many decades?
18 **MS. BAKER:** Actually 2002.
19 **DR. ZIEMER:** Okay.
20 **MS. BAKER:** 2002.
21 **DR. ZIEMER:** I was being facetious. You know,
22 it appears to be about the 1960 rate --
23 **MR. PRESLEY:** Yeah.
24 **DR. ZIEMER:** -- but -- okay. I'm
25 editorializing -- since my plumber makes more

1 than that. Okay?

2 Okay, Board members, any questions on that
3 issue? So the DTRA board comes under I think
4 the Veterans Administration or one of the
5 wealthier agencies such as Department of
6 Defense or something. I know you'll hate the
7 Chairman making remarks like this --

8 **DR. WADE:** No, no.

9 **DR. ZIEMER:** -- on the formal record, but I
10 mean what are they going to do, fire me?

11 **DR. WADE:** Cut your pay.

12 **DR. ZIEMER:** Yeah, cut my pay, right. Okay,
13 Board members, any questions on that?
14 Now let me -- let me ask about the issue of the
15 state income tax. Who's had problems with
16 that? Several -- at least four Board members
17 have. They find the State of Georgia taking
18 their high level of wages and absconding with
19 it. What -- what do we know about that issue?

20 **MS. BAKER:** We'll have to defer to the human
21 resources person that's on the line for that.

22 **DR. ZIEMER:** So that would be Janie, did --
23 Janie, are you on the line?

24 **MS. ODDY:** Yes, I am.

25 **DR. ZIEMER:** Okay.

1 **DR. WADE:** Janie, could we ask you to get as
2 close to the -- your mouthpiece as possible and
3 speak as loudly as you can speak?

4 **MS. ODDY:** Yes.

5 **DR. WADE:** Okay. The issue before us is the
6 issue of Georgia income tax, and I know it
7 breaks into two issues. There was yesterday
8 and now there's tomorrow. Could you speak to
9 both of those issues?

10 **MS. ODDY:** I guess -- are you talking about
11 yester-- tomorrow?

12 **DR. WADE:** Well, I'm talking about --

13 **MS. ODDY:** Okay, one of the things that -- when
14 you file, you can file exemption for Georgia
15 taxes. The problem is you have to do it every
16 year, so if you don't -- if you do it in one
17 year, come 1 January if you don't file the
18 exemption again, it goes away and reverts back
19 to the Georgia taxes.

20 **DR. WADE:** So there are two issues, I think.
21 One is, a Board member needs to file that
22 exemption each year. I assume it's at the
23 start of the calendar year?

24 **MS. ODDY:** Yes, each January.

25 **DR. WADE:** And then there is the issue if -- if

1 the State of Georgia is holding people's money
2 from past withholding actions, I would like us
3 to help in any way we can to see those Board
4 members recoup those funds.

5 **MS. ODDY:** The only mechanism -- if it's a
6 prior year, if it's not -- if it's in the
7 current year we can ask for our payroll office
8 to -- to refund. But if it's in a year that
9 the books have already been closed, it has to
10 be filed with the State of Georgia.

11 **DR. WADE:** Now can we help people make those
12 filings? I know -- I know they need to do it,
13 but can you call a Board member and work with a
14 Board member as to the steps they need to go
15 through to accomplish those filings?

16 **MS. ODDY:** No, sir, I can't. Those are --
17 those are individual State filings with their
18 income tax.

19 **MR. PRESLEY:** Ma'am, this is Robert Presley
20 with the Board.

21 **MS. ODDY:** Yes.

22 **MR. PRESLEY:** You all took taxes out on us,
23 knowing that we did not live and did not work
24 in the state of Georgia. We did not find this
25 out for a couple of years after the fact. We

1 did not know, number one, that we were being
2 taxed by the State of Georgia; number two, that
3 we even had to go back and file for taxes
4 individually from the State of Georgia. I
5 think that somebody needs to come up -- step up
6 and help us with what we need to do to get our
7 money back 'cause not only have I been taxed
8 for the earnings -- and I will say meager
9 earnings -- also you all turned in the money
10 that I was supposed to be reimbursed from my
11 travel and my per diem, and the State of
12 Georgia has taxed that as earnings.

13 Something's wrong.

14 **MS. ODDY:** Well, the first thing is, on travel
15 and per diem, it does not come through the
16 payroll office. That is a -- it comes through
17 the CDC financial management office. On the --

18 **DR. ZIEMER:** So that's a different --

19 **MS. ODDY:** -- (unintelligible) send you the
20 Georgia tax form to file for the refund for the
21 year, but if it's a current year we can ask
22 (unintelligible) to refund the money. If it's
23 a past year, they will not refund it. It will
24 have to come through filing for your State --
25 it -- through the State income tax refund.

1 **DR. ZIEMER:** Wanda Munn has a question.

2 **MS. MUNN:** This is more than a little
3 disconcerting. As Mr. Presley pointed out, it
4 was unknown to many of us, certainly it was
5 unknown to me, for at least two years that
6 there was any withholding being taken for the
7 State of Georgia. When I discovered that there
8 was, I was told that what I should do is go to
9 the web site for my pay and indicate on that
10 web site that I should not have Georgia tax
11 withholding. So I did that, but it didn't
12 change anything. And I asked about it again
13 and was told -- instructed to -- to repeat that
14 performance, which I did. I was even queried
15 by my CPA at tax time as to what this Georgia
16 withholding was on my -- my tax forms, and I
17 told him, and he said -- I -- I then asked --
18 I'm certain -- I'm -- I'm not certain who I
19 asked, but I did ask someone in our agency
20 here, do I have to file a Georgia tax income
21 tax return or what do I need to do in order to
22 make sure that this significant number of
23 hundreds of dollars that was withheld last year
24 is returned. And the answer was if you've said
25 on your form that you're not a Georgia resident

1 and it should not be taken out, then it will be
2 taken care of. But I am pleased to say that as
3 of this year -- as of last month, what has been
4 withheld this year has now been paid me.

5 **MS. ODDY:** Yes.

6 **MS. MUNN:** That -- that's been corrected for me
7 this year. But I am hearing you say that I
8 have no recourse for prior years, even though
9 the instructions that I received apparently
10 were either inadequate or incorrect. I'm
11 stuck, right?

12 **DR. WADE:** No, I don't think she's saying
13 there's no recourse. I think she's saying you
14 have to file for the return, that the
15 government can't do it for you, that you have
16 to make the representation to the State of
17 Georgia. What I'd like to do is to have
18 someone call you and walk you through that
19 process --

20 **MS. MUNN:** I would --

21 **DR. WADE:** -- hold your hand through that
22 process.

23 **MS. MUNN:** I would appreciate that.

24 **DR. WADE:** Elaine, I don't know if you have
25 something to say.

1 **MS. BAKER:** What my team will do is to work
2 with the various divisions, whether it's FMO or
3 human resources, with each person that has an
4 issue, to walk through each item that is of
5 concern and to coordinate it and respond to all
6 of the issues.

7 **MR. PRESLEY:** This is Bob Presley again. I
8 have another comment. This past year my taxes
9 showed -- I asked if I was -- had Georgia taxes
10 being taken out and they told me no. Then we
11 did get the tax form that says yeah, you've had
12 400 and something dollars taken out. I get a
13 notice on my statement from the bank that I got
14 200 and something dollars from the State of
15 Georgia just the other day -- not the 400 and
16 something dollars that have been paid out. So
17 there's -- there's a tremendous amount of
18 inequity here. Three years ago this came up
19 again. I had to get the Commissioner of
20 Finance and Banking from the State of Tennessee
21 to call the State of Georgia to tell them that
22 I was not a resident. They wouldn't even
23 believe that, and got absolutely no help on
24 that. And it should have been taken care of
25 then.

1 **DR. WADE:** I'll look --

2 **MR. PRESLEY:** I would appreciate some help.

3 **DR. WADE:** I think at a minimum you and I need
4 to commit to calling each Board member who asks
5 now to be called, and to work through their
6 issues with them.

7 **MS. BAKER:** We will do that.

8 **DR. WADE:** Okay. So who -- I assume Wanda,
9 Robert -- Mike?

10 **MR. GIBSON:** (Off microphone) I guess so, I
11 don't know, I (unintelligible).

12 **MR. PRESLEY:** I have another comment. I'd like
13 to know if at least every quarter that we could
14 get a statement -- this MyPay business don't
15 work. I think five years ago we asked that
16 quarterly we get a statement about our earnings
17 and what we have been paid for travel and stuff
18 like that so we can keep up with it, and I
19 haven't seen that yet. I mean that's only good
20 business.

21 **MS. ODDY:** Sir, I can provide you a statement
22 from the system each quarter, but it will only
23 include your payroll and we will have to get
24 with FMO to prepare a statement for your travel
25 and per diem.

1 **MR. PRESLEY:** I would appreciate that.

2 **MS. ODDY:** Okay.

3 **MS. MUNN:** That would be very helpful.

4 **DR. WADE:** So now just so we get this right,
5 there -- Wanda, Robert, Mike and Dr. Lockey,
6 Brad?

7 **MR. CLAWSON:** Yes.

8 **DR. WADE:** We'll commit to calling those people
9 within two weeks.

10 **MS. BAKER:** Yes, we will do that.

11 **MR. GRIFFON:** I don't know, I mean I'm
12 (unintelligible).

13 (Whereupon, multiple Board members spoke
14 simultaneously.)

15 **DR. WADE:** Okay, we'll call you -- we'll call
16 each Board member and we'll discuss this issue
17 and we'll work through your individual issues.
18 With regard to the monthly --

19 **DR. ZIEMER:** You don't need to call me.
20 Georgia's not figured out how to get my money
21 yet.

22 **DR. WADE:** We will give your name to the State
23 of Georgia. But that --

24 **DR. ZIEMER:** Well, I think states that -- some
25 -- some of it has to do with reciprocity

1 between the states, and some states have
2 agreements with other states. If I'm having
3 Indiana tax withheld, then apparently Georgia
4 doesn't. But they may not have an agreement
5 with Tennessee.

6 **MR. PRESLEY:** They (unintelligible) -- they
7 (unintelligible) an agreement with Tennessee.

8 **DR. ZIEMER:** Yeah. Then that's probably part
9 of the -- the issue, but I don't have that
10 problem so you don't need to --

11 **DR. WADE:** So a call from Elaine and I to every
12 Board member except Paul at this point --

13 **MS. BAKER:** Yes.

14 **DR. WADE:** -- and then the list of people who
15 would like a quarterly roll-up prepared of
16 earnings and then of travel.

17 **MR. GRIFFON:** Why don't you just do that for
18 (unintelligible) --

19 **DR. WADE:** Do it -- we'll do that for each
20 Board member.

21 **DR. ZIEMER:** Well, now let me point out -- now
22 I don't know -- the MyPay thing works fine for
23 me. I get -- I get the thing every two weeks.
24 I download it, it gives me a statement of year-
25 to-date and current earnings. And so -- and --

1 do you -- do you have problems with it, Gen?

2 **DR. ROESSLER:** I -- I get it -- you know, you
3 can check in any time and find that
4 information. The only problem I have with
5 MyPay is that sometimes pay goes into it very
6 mysteriously, and I have no idea what days it's
7 for, what it's for. Other times I will submit
8 an invoice for certain days, identifying what
9 they're associated with -- whether it's
10 preparation or a workgroup or a Board meeting -
11 - and nothing happens. And this is all very
12 mysterious. It's very difficult for me to line
13 up what I think my pay should be with these
14 mysterious deposits and then the mysterious
15 ones that don't appear.

16 **DR. ZIEMER:** Yeah, I think the main issue
17 between MyPay and the prep times that we turn
18 in to CDC through LaShawn is -- is matching
19 them up. I -- I admit that I don't know how to
20 match them up 'cause I can't identify
21 particular --

22 **MS. MUNN:** I can't tell which is which.

23 **DR. ZIEMER:** Yeah.

24 **DR. WADE:** Okay, we'll -- we will call each
25 Board member and talk about these issues

1 individually.

2 **DR. ZIEMER:** Now the travel part, it's
3 understood now that travel is handled
4 separately, a separate group from the -- the
5 compensation group.

6 **MS. BAKER:** Yes, but we'll coordinate with all
7 offices.

8 **DR. ZIEMER:** I don't know why tax would be
9 taken out of travel. That doesn't make sense.
10 I've found that what -- in -- in those travel
11 voucher amounts, they do appear mysteriously in
12 my bank account and I simply have to go back
13 and match them up with the voucher that I get
14 from LaShawn, and I have been able to match
15 them up, so that's -- that's the way I do it.

16 **DR. WADE:** And that's the way I do it, too.
17 But we'll talk to each Board member. Thank
18 you, Elaine, very much for making
19 (unintelligible) --

20 **DR. ZIEMER:** Yeah, thank you very much.

21 **DR. WADE:** -- and your (unintelligible).

22 **DR. ZIEMER:** Any other issues related to
23 administration of your travel and so on,
24 compensation, taxes?

25 (No responses)

1 be something going --

2 **DR. WADE:** I can't hear you.

3 **MR. HINNEFELD:** I know, it's just anti-- you
4 can't hear me?

5 **DR. WADE:** I couldn't hear what you just said.

6 **MR. HINNEFELD:** I was making a lame joke. I
7 said there's a -- seems to be a little
8 excitement out in the hall, and I don't know if
9 you guys are aware of -- there might be
10 something going on.

11 **DR. ZIEMER:** They may have realized that --

12 **MR. GRIFFON:** Probably anticipating your
13 presentation.

14 **MR. HINNEFELD:** I'm hoping to be interrupted.
15 I'm here today to present the outcome of the
16 evaluation report for the -- NIOSH has
17 completed for the Harshaw Chemical plant. This
18 is a chemical plant in Cleveland. It was one
19 of the early uranium production plants during
20 World War II. When the government had a need
21 for -- decided they wanted to investigate a
22 nuclear weapons program and started producing a
23 lot of uranium, Harshaw Chemical plant in
24 Cleveland was one of the plants they called on
25 to assist in that effort.

1 This is an 83.14 petition. The Board members
2 of course all know what that is. This is a
3 situation -- for the audience, a situation
4 where NIOSH has determined that we have -- we
5 have determined it's not feasible to perform
6 dose reconstructions with sufficient accuracy
7 for these -- for these cases and therefore we
8 have proceeded -- essentially initiated with
9 the SE-- initiated the SEC process. We found a
10 -- a claim that we could not do. We felt like
11 we didn't have sufficient information to do a -
12 - a dose reconstruction for that claim and --
13 and then we evaluated similar claims, as well,
14 so the class is not only the one that we can't
15 do, but people who have similar
16 characteristics.
17 There's a two-pronged test of course that has
18 to be established -- or has to be met when
19 establishing an SEC by -- first of all, by
20 83.14-- by 83.14 or 83.13. Is it feasible to
21 estimate the level of radiation doses to the
22 individual members of the class with sufficient
23 accuracy; that's one test. And if not, then is
24 there a reasonable likelihood that the
25 radiation exposure may have endangered the

1 health of the members of the class. So if that
2 is a yes, then there -- the -- then that is the
3 two-- or you've passed the two-pronged test and
4 then you're in a position to proceed forward
5 with the Special Exposure Cohort class.
6 Harshaw Chemical Company produced significant
7 quantities of several uranium compounds. They
8 started with milled uranium ore and other feed
9 materials that came from other plants that were
10 operating at that time, and the products that
11 they produced included uranium chloride,
12 uranium tetrafluoride, uranium hexafluoride,
13 uranium trioxide, uranium dioxide and uranyl
14 nitrate hexahydrate.
15 On at least two occasions Harshaw processed
16 some low enriched uranium. Those -- that
17 process seemed to be what we would refer to as
18 a sweetening operation where they would use
19 some fairly low enriched uranium and blend it
20 with natural uranium, and you get a bigger
21 quantity with an enrichment in the middle. So
22 that seemed to be what they were doing. We
23 know of two -- two instances at least when they
24 did that.
25 The chemical -- the description of how these

1 products were produced is provided in more
2 detail, or somewhat more detail, in the Special
3 Exposure Cohort petition evaluation report
4 which has been provided previously.
5 They performed other activities as well.
6 Between 1943 and 1944 they produced a number of
7 what we might call special radiological
8 materials. These were other uranium compounds
9 that are not so commonly produced anymore or
10 for very long in the -- in the uranium -- in
11 the -- in the weapons production cycle. Those
12 compounds are uranyl fluoride, sodium diuranate
13 and uranyl nitrate. (Unintelligible) look, I
14 think that might be uranium nitrate, actually.
15 From February of 1947 until August of 1950
16 Harshaw also produced in a laboratory bench-
17 type quantities of thorium-234. Thorium-234 is
18 a daughter product of uranium-238, has quite a
19 short half-life -- I believe it's on the order
20 of about a month -- and so would have a high
21 specific activity. You wouldn't need very much
22 ac-- very much mass to have a pretty high
23 activity. But this was essentially a
24 laboratory-scale operation in one -- in that
25 particular area.

1 The production of most of the compounds that
2 they were producing ended in 1951 or perhaps a
3 little earlier. The production of uranium
4 trioxide continued until August of 1953. The
5 plant was placed on standby, except that they
6 had some final conversion. They had a few feed
7 materials they still wanted to convert because
8 it essentially put it in a more stable -- more
9 stable form than -- than maybe the feeds, or a
10 more broadly usable form than the feed
11 materials that they had in the plant. And then
12 there was some decommissioning work that was
13 done after that for a couple of years, I
14 believe.

15 The processes that are relevant to the class is
16 just sort of a restatement. The milled uranium
17 ore and other feed -- feed materials from other
18 plants were converted to -- by a series of
19 chemical treatments to the desired products.
20 And I'd just mentioned the products. The
21 chemical treatments are described a little bit
22 in the -- in the evaluation report.

23 Important to note here that the milled uranium
24 ore will contain the other radioisotopes from
25 the uranium decay chain, not just the uranium

1 isotopes themselves, and so you'll have a
2 number of non-uranium isotopes with potential
3 for exposure since the uranium ore was -- ore
4 was handled there.

5 And the production at this plant increased
6 dramatically during World War II because the
7 Manhattan Engineering District had quite a --
8 quite a demand for uranium during that time,
9 and this was one of the early plants that was
10 providing it.

11 In terms of the information we have available
12 that potentially could be used for dose
13 reconstruction, the routine uranium bioassay
14 program didn't begin until December of 1949.
15 We have some limited instances of bioassay data
16 available from a few dates earlier, but not --
17 it wasn't a routine bioassay program. It sort
18 of seemed like a ad hoc kind of sampling
19 routine that doesn't provide very thorough
20 understanding of what was available or what was
21 being done then.

22 Air monitoring results are available from the
23 period 1948 through '53. These are reported in
24 units of alpha activity per unit of volume, so
25 these are -- will provide information for that

1 later period, '48 through '53, that may be
2 useful.

3 Throughout the operation we have no monitoring
4 data available for internal exposure to non-
5 uranium radionuclides. This would be thorium-
6 234, the other radionuclides that may go along
7 with it, maybe down to radium, so we have no
8 internal monitoring data for those items.
9 We do have some personnel external radiation
10 monitoring data -- you know, film badge type
11 data. And we do have quite a number of direct
12 radiation measurements available from pretty
13 early in the operation. Those kinds of
14 activities would probably be relatively
15 consistent over the course of operation, the
16 kind of dose rates from uranium and uranium
17 products are -- are fairly well established and
18 is fairly standard.

19 And we do have some documentation concerning
20 the early Harshaw medical monitoring program --
21 medical program, and it does indicate that
22 workers received pre-employment chest X-rays
23 and annual physicals that included two X-ray
24 shots, a chest X-ray and a pelvic X-ray exam.
25 Therefore we believe we can adequately

1 reconstruct the doses that were associated with
2 the medical exposure associated with the work
3 based on other Technical Basis Documents that
4 we've already published and knowledge of that
5 medical program.

6 So in terms of progress of this petition, we
7 determined that it was unable -- that we could
8 not obtain sufficient information to complete
9 the dose reconstructions for a particular
10 claim, an existing claim -- sometimes called a
11 litmus test claim or a representative claim --
12 and in June we notified the claimant that we
13 could not reconstruct the dose. And we
14 provided the claimant with a SEC petition Form
15 A, which is the short form that essentially
16 says please sign here and send it back and
17 we'll proceed. The petition was received back
18 by us at the end of July and so we proceeded
19 now with the evaluation report and provide it
20 to the Board.

21 Our conclusions on our evaluation of the data
22 available is that we found that we lack the
23 monitoring, process and source information
24 sufficient to estimate the internal dose
25 resulting from non-uranium nuclides for the

1 period August 14th, 1942 through November 30th
2 of 1949.

3 Now the important thing to remember here is
4 that these non-uranium radionuclides that would
5 have entered with uranium ore would -- first of
6 all, we don't have any particular information
7 about the extent of their content or how --
8 what their content was, how much activity there
9 was from these non-uranium isotopes compared to
10 uranium at any point. And not only do we not
11 have any information at any point, but it would
12 not be constant. Because of the chemical
13 processes that were used at Harshaw, they --
14 the extent of equilibrium or disequilibrium
15 would have been distorted a number of times
16 during these chemical processes, and so there
17 will be potential for exposure to materials
18 with -- with a variety of relative activities.
19 You know, meaning relative -- non-uranium
20 activity to uranium activity, so it -- it makes
21 it impossible to tie the non-uranium exposure
22 to say a reported uranium exposure as a -- a
23 fraction or something.

24 Now we may have sufficient information to
25 estimate the external doses and internal doses

1 from uranium. We definitely believe we have
2 enough information for medical exposure from
3 this period, from the class -- for all doses --
4 or from those doses during the period, and we
5 believe we may be able to do all doses from
6 December 1st, 1949 on. I'm being a little
7 equivocal here because there is still -- it
8 still I think remains to be proven that we can
9 do the uranium intakes from this early period.
10 We do have some monitoring data from the early
11 period. We have monitoring data that starts
12 relatively regularly in late 1949. And some
13 people who worked and had monitoring data from
14 '49 on we believe also started working in 1943
15 and worked throughout. So if you -- for an
16 internal monitoring exposure if you have
17 bioassay data from '49 on, there may be a way
18 to bound an intake that that person received
19 earlier -- you know, years earlier. That may --
20 - it may be feasible. It may turn out that the
21 bound is so high as to be incredible and so it
22 may not work out, so that's why I wanted to be
23 a little equivocal about our ability to do that
24 in terms of the uranium intake.
25 I think we probably feel a little better about

1 the external dose from the -- during the class
2 period. We think we have pretty good
3 information and even -- I mean a source term
4 model for uranium for external dose is a
5 relatively good way to do external dose from --
6 from those materials. And like I said, I
7 believe we can do the medical exposures, as
8 well.

9 Now from 1949 on we have bioassay data --
10 relatively regular bioassay data. We have air
11 sampling data that provides total alpha
12 activity. So we believe it may be possible to
13 reconstruct not only uranium intakes but also
14 the non-uranium intakes later, based on those
15 sets of data. I believe that remains to be
16 demonstrated, and so, like I said, I'm being a
17 little equivocal about whether we can actually
18 -- will find out ultimately that we can find
19 out we can do that or not, but we wanted to
20 proceed with the -- with the petition at this
21 point because it provides a remedy for the
22 people in this class. We know we cannot do
23 these particular internal doses up through
24 November 1949, and it allows some cases then to
25 receive their answer now as opposed to pursuing

1 further research and maybe extending it later
2 on. We may be back at a later date with an
3 additional 83.14 that says that well, we've
4 evaluated and maybe we really can't do this
5 dose and we need to extend these dates later.
6 There is certainly -- we may receive a petition
7 from Harshaw that petitions for later dates,
8 which would then require evaluation and
9 demonstration of that. So -- so but -- for the
10 reason of moving forward with a certain set of
11 claims that we -- we are confident we will not
12 be able to do, we're presenting the petition
13 and the evaluation report at this time.

14 **DR. ZIEMER:** Thank you, Stu. Stu, I noticed in
15 the case of Monsanto NIOSH provided a very
16 helpful chart where they broke down what you
17 could and what you couldn't do.

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

19 **DR. ZIEMER:** If you were to do such a chart for
20 -- for this particular site for -- for Harshaw,
21 I just want to make sure I caught all the
22 pieces.

23 **MR. HINNEFELD:** Okay.

24 **DR. ZIEMER:** You can do occupational medical --

25 **MR. HINNEFELD:** Yes.

1 DR. ZIEMER: -- for those years.

2 MR. HINNEFELD: Yes.

3 DR. ZIEMER: So let's focus on the external.
4 You can do occupational medical.

5 MR. HINNEFELD: Yes.

6 DR. ZIEMER: You can do external uranium
7 exposures, or --

8 MR. HINNEFELD: We believe we can do external
9 exposures pretty much in their entirety.

10 DR. ZIEMER: Of -- of all types --

11 MR. HINNEFELD: Yes.

12 DR. ZIEMER: -- 'cause they have -- okay.

13 MR. HINNEFELD: Yes.

14 DR. ZIEMER: So let's say external beta/gamma.
15 What about external neutron -- there was no
16 neutron --

17 MR. HINNEFELD: Well, there's no neutron
18 monitoring, but we have a precedent for a
19 research of the relative contribution of
20 neutrons to photon dose --

21 DR. ZIEMER: For the --

22 MR. HINNEFELD: -- for these types of
23 compounds, for these fluoride compounds.

24 DR. ZIEMER: So if you were doing such a chart,
25 the external would say dose reconstruction

1 feasible for beta/gamma --

2 **MR. HINNEFELD:** Yes.

3 **DR. ZIEMER:** -- for neutron and for medical.

4 **MR. HINNEFELD:** Yes.

5 **DR. ZIEMER:** For internal, I think you said you
6 may be able to do uranium.

7 **MR. HINNEFELD:** I think for uranium we would
8 say --

9 **DR. ZIEMER:** Or is it --

10 **MR. HINNEFELD:** -- maybe.

11 **DR. ZIEMER:** Okay.

12 **MR. HINNEFELD:** If we put the chart together, I
13 think we would say maybe.

14 **DR. ZIEMER:** That's a new -- new column in the
15 chart.

16 **MR. HINNEFELD:** Well, I'm a new kind of
17 presenter.

18 **DR. ZIEMER:** Yeah, I understand. But the
19 internal issue really revolves around the other
20 nuclides then, the --

21 **MR. HINNEFELD:** Clearly we won't be able to
22 reconstruct the other radionuclides for this
23 class period.

24 **DR. ZIEMER:** Okay.

25 **DR. WADE:** Stu, I think you have more slides.

1 **MR. HINNEFELD:** Yeah.

2 **DR. ZIEMER:** Oh, I'm sorry.

3 **MR. HINNEFELD:** That's okay.

4 **DR. ZIEMER:** Yeah.

5 **DR. MELIUS:** Chair's prerogative.

6 **MR. HINNEFELD:** So our -- our fin-- our
7 conclusions continue about health endangerment.
8 We've determined that members of the class were
9 not exposed to radiation during a discrete
10 incident likely to have involved levels of
11 exposure similar to a high -- or as high as
12 those during a nuclear criticality accident, so
13 we don't believe that presence necessarily is
14 sufficient for health endangerment. But we do
15 believe that the evidence indicates that there
16 was opportunity for chronic exposures that
17 could certainly endanger the health of members
18 of the class.

19 The definition of the class is reproduced here.
20 It's also on the petition evaluation report.
21 It's all the Atomic Weapons Employer's
22 employees who were monitored, or should have
23 been monitored, at the site while working at
24 the Harshaw Harvard-Denison Plant located at
25 1000 Harvard Avenue in Cleveland, Ohio for a

1 number of days aggregating at least 250
2 workdays from August the 14th, 1942 when the
3 relationship with AEC began -- or been going
4 with the MED at that point -- through November
5 30th, 1949, or in combination with work within
6 the parameters established by one or more of
7 the other classes -- SEC classes. So this is
8 the definition.

9 With respect to who should have -- who were
10 monitored or should have been monitored,
11 there's information about contamination at the
12 plant, contamination exterior to the plant. I
13 think it would be -- I can't really speak
14 definitively about, you know, what -- how will
15 that be interpreted because it's not NIOSH's
16 interpretation to make. I think it would be
17 hard -- it would be hard-pressed, though, to
18 identify people who should have not have been
19 monitored by today's standards at the Harshaw
20 plant, based on descriptions of radiological
21 condition of the plant.

22 The recommendation of the petition evaluation
23 report is for the period of August 14, 1942
24 through November 30th, 1949 NIOSH finds that
25 radiation dose estimates cannot be

1 reconstructed for compensation purposes, so we
2 feel that it's not feasible to reconstruct the
3 doses with sufficient accuracy during that
4 time, and that the health was certainly
5 potentially endangered -- the health of the
6 class -- members of the class was potentially
7 endangered.

8 So that's the completion there.

9 **DR. ZIEMER:** Okay. Now just -- I'm going to
10 reiterate again then. I'm -- for internal, we
11 would say not feasible. For external, for --
12 you're saying feasible.

13 **MR. HINNEFELD:** Yes.

14 **DR. ZIEMER:** Across the board, pretty much.

15 **MR. HINNEFELD:** Yes.

16 **DR. ZIEMER:** Yes.

17 **DR. MELIUS:** And some internal, maybe, you
18 said.

19 **UNIDENTIFIED:** (Off microphone) Some internal
20 maybe, the uranium (unintelligible).

21 **DR. ZIEMER:** Well, yes, I understand that, but
22 basically by -- by the fact that they eliminate
23 the other nuclides for -- you're not going to
24 be able to do internal.

25 **MR. HINNEFELD:** We cannot do a complete

1 internal dose reconstruction --

2 **DR. MELIUS:** Partial.

3 **DR. ZIEMER:** Internal's going to be a no, not -
4 - not a maybe.

5 **MR. HINNEFELD:** There may be certain individual
6 claimants that we have bioassay --

7 **DR. MELIUS:** Well, yeah --

8 **DR. ZIEMER:** But for the purposes --

9 **MR. HINNEFELD:** -- data on sufficient for
10 internal uranium there may be a way --

11 **DR. ZIEMER:** -- of this kind of chart, that's
12 the driver.

13 **MR. HINNEFELD:** Yeah.

14 **DR. ZIEMER:** You can't do internal.

15 **MR. HINNEFELD:** Yes.

16 **DR. ZIEMER:** For the class.

17 **MR. PRESLEY:** How many cases are we talking
18 about?

19 **MR. HINNEFELD:** You know, I e-mailed the office
20 for that this morning and asked them to answer
21 by 3:00 o'clock, so I will know later on today.
22 It's not -- I don't think it's a large number
23 of cases 'cause this is, you know, early on at
24 Harshaw.

25 **DR. ZIEMER:** Okay. Questions, Board members?

1 Dr. Melius.

2 **DR. MELIUS:** Just to follow up on that
3 question, I'd also be curious about what cases
4 you've done in -- for the later time period. I
5 suppose -- assume there's overlap and I think
6 it's helpful for context to understand what's
7 going on.

8 **MR. ELLIOTT:** I don't know that I have the
9 information to get specific to your question,
10 Dr. Melius, but I have general information here
11 about the number of claims. We have -- for
12 Harshaw Chemical we have been given 59 claims
13 from DOL for dose reconstruction. Through our
14 efforts at reconstructing what we could
15 reconstruct, we have completed 31 of those 59,
16 and of those 31, let's see, 25 were found to be
17 compensable and six were found to be non-
18 compensable. So that's -- that's all the data
19 I have right here. Stu's -- Stu's --

20 **DR. ZIEMER:** And we don't have the years on
21 those, is --

22 **MR. ELLIOTT:** I don't have the years, no.

23 **DR. ZIEMER:** Other questions, comments? Yes,
24 Mark.

25 **MR. GRIFFON:** Yeah, I'm just curious about the

1 film badge data. You say you have data for 187
2 workers for that time period. Is that -- can
3 you put that in context? That's 187 out of --
4 how many people would have been working there?
5 Was it --

6 **MR. HINNEFELD:** Well, standing --

7 **MR. GRIFFON:** -- 100 percent badging, was it --
8 you know, do you know anything more about that?

9 **MR. HINNEFELD:** Standing here today, I don't.
10 The -- I -- I'm pretty confident it wouldn't be
11 100 percent. Harshaw I believe was a
12 relatively good-sized plant, and that doesn't
13 sound like it would have been 100 percent. Now
14 whether the Harshaw plant involved -- you know,
15 surely -- certainly probably would have
16 involved other chemical operations and so maybe
17 the 187 people who worked in Plant C where the
18 work was done, maybe they were monitored. I
19 don't think -- but we don't have a complete
20 record. I mean it's not like some plants where
21 we have pretty much the complete badging
22 record, but we don't have that.

23 **DR. ZIEMER:** Well, Harshaw was certainly doing
24 a lot -- lot of other things. I mean they were
25 a major chemical supplier in the United States,

1 so certainly many more people working there, so
2 this is one -- is this one building that was
3 exclusively used for this work out of a plant,
4 or part of a -- one building, or do we know
5 what the physical -- how much separation would
6 there have been between these workers and
7 others who worked for Harshaw?

8 **MR. HINNEFELD:** The description of -- of the
9 plant refers to the uranium work being done in
10 Plant C. Now Plant C, by experience, may be
11 more than one building. And I don't have
12 readily at hand the information about the
13 relative position of this plant relative to
14 other facilities that may be included. The
15 intent here is that this was done at I believe
16 one plant, which may not be one building, at
17 that --

18 **DR. ZIEMER:** Right.

19 **MR. HINNEFELD:** -- particular address on
20 Harvard Avenue.

21 **DR. ZIEMER:** Right.

22 **MR. HINNEFELD:** And so --

23 **DR. ZIEMER:** So someone who might really not
24 have been involved with this particular work
25 but who was in that building might be able to

1 make a claim under this --

2 **MR. HINNEFELD:** Yes.

3 **DR. ZIEMER:** -- description, I believe --

4 **MR. HINNEFELD:** Yes.

5 **DR. ZIEMER:** -- if they were in that building.

6 **MR. HINNEFELD:** Yes, I would think that anyone,
7 unless they were, you know, really specifically
8 excluded from this building, unless there's
9 evidence that there was this population that
10 worked at this address that was excluded from
11 this building, unless there's evidence to that
12 effect, I would think anyone who worked at this
13 address would be included in the class -- that
14 would be my judgment, but mine's not the final
15 judgment.

16 **DR. ZIEMER:** Brad.

17 **MR. CLAWSON:** Stu, do we have any information
18 on what -- the cleanup or anything of it? I
19 see it goes to '49. What happened -- what
20 happened then, did --

21 **MR. HINNEFELD:** In December of 1949 we obtained
22 -- they began a routine bioassay program, and
23 so we have monitoring data that -- that's
24 pretty good from December 1949 on. We also
25 have a routine air monitoring program that

1 actually started a little earlier than that.
2 That will allow us, we believe, to -- with the
3 appropriate, you know, calculations and
4 caveats, will allow us to bound the internal
5 exposure to non-uranium nuclides. It may turn
6 out that it doesn't. It may turn out it's not
7 as good as we think it is going to turn out,
8 and so it may not work out to that effect. But
9 our belief today is that we're -- you know, we
10 -- it may allow us to do that, so we haven't
11 included that yet.

12 We also haven't completed that -- the
13 evaluation of that question so that we can move
14 forward with the class that we know we can't do
15 and provide answers to that group of people.

16 **MR. CLAWSON:** Okay.

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

18 **DR. MELIUS:** Can I ask what would -- what's
19 sort of the plan timetable and procedure for
20 doing that? I'm presuming that since ORAU
21 prepared -- worked on this report, some of the
22 same people would be involved in go-- going
23 for-- I'm just sort of trying to understand
24 when we have these --

25 **MR. HINNEFELD:** Yeah, sure. The routine that's

1 followed on these -- and it's the same for --
2 for these 83.14 sites -- is that when an 83.14
3 class is added, there are a number of other
4 things -- you know, you're not done with the
5 site because there are the non-presumptive
6 cases that have to be done. And so when the
7 83.14 class becomes effective -- so that will
8 be after the Secretary's letter and then the
9 waiting period. When it becomes effective,
10 then the class -- the cases in the class that
11 have presumptive cancers, we ship those off to
12 the Department of Labor right away and we say
13 we believe these fit the criteria and that we
14 don't need to deal with them anymore.
15 The non-presumptive cases, which we've
16 typically had pended up until that point, we
17 un-pend and then we attempt -- then we work the
18 dose reconstruction. In order to do that, we
19 have to have essentially a site profile or
20 something like site -- like a site profile that
21 tells the dose reconstructor how to do the dose
22 reconstructions for these non-presumptive
23 cancers so that they're done consistently. So
24 during the interim -- you know, from the time
25 we feel pretty confident that we're going to

1 have an 83.14 class -- up until the time of its
2 effectiveness, what we're working on is what is
3 our non-presumptive approach; what can we do
4 during non-presumptive -- for the non-
5 presumptive cancers, and publishing that
6 document, maybe not in time, but certainly we
7 want to shoot for that time bec-- and then --
8 so that we can proceed with the non-presumptive
9 cancers in doing the partial dose
10 reconstructions.

11 During that development of that -- we still
12 call them site profiles or TBDs. During that
13 development is when these issues will be vetted
14 and we'll be critiquing, you know, the -- the
15 robustness of the data and do we really -- will
16 we really be able to do that. So that is the
17 process that's followed for these. So it will
18 be during the preparation of that site profile
19 for non-presumptives that the issues will be
20 addressed.

21 **DR. MELIUS:** A-- and does that include the
22 later time period, also?

23 **MR. HINNEFELD:** Ye-- it will include the later
24 time period, as well, yes, because we're trying
25 to -- you're trying to write one to address it

1 all. And then if it turns out we can't, like I
2 said, we could end up back here.

3 **DR. MELIUS:** Yeah. I'm just...

4 **DR. ZIEMER:** Thank you. Other comments or
5 questions? Mark.

6 **MR. GRIFFON:** I just -- I -- I think this is
7 probably for a later disc-- may be for a later
8 discussion, but the -- you mentioned that for
9 the later time period you have air sampling and
10 therefore you may be able to do the non-uranium
11 exposures. But I -- I think you've very
12 clearly stated, and I was going to raise this
13 as a question but you addressed it, that you
14 don't know necessarily the variation in
15 activities throughout the process. Things are
16 going to concentrate, you're going to have
17 different ratios.

18 **MR. HINNEFELD:** Right.

19 **MR. GRIFFON:** How is that going to be different
20 in the later time periods when you have -- I'm
21 assuming in '49 it was still probably gross
22 alpha air sampling.

23 **MR. HINNEFELD:** Yeah, the --

24 **MR. GRIFFON:** How -- how will you all of a
25 sudden know the ratios then to apply for non-

1 uranium?

2 **MR. HINNEFELD:** For -- for a bounding dose
3 estimate, which is what's required, I don't
4 know that you need to know the ratios. You
5 have a -- if the bounding estimate is the most
6 accurate you can do, then that's what we'll do.
7 And for a bounding dose estimate, if you choose
8 the radionuclide that is most advantageous to
9 the claimant -- and it may be different for
10 different claimants, you know, since we don't
11 know what the radionuclide was -- you can
12 choose the dose from the one that's most
13 advantageous. It would be different for
14 different claimants, depending upon where --
15 where their cancer originated and if any -- any
16 of those particularly radioactive materials --
17 what -- you know --

18 **MR. GRIFFON:** And you have --

19 **MR. HINNEFELD:** -- aggregated in that organ.
20 So it may be possible to do a bounding exposure
21 for the non-uranium materials. It may.

22 **MR. GRIFFON:** For this earlier time frame you
23 just have no air sampling at all --

24 **MR. HINNEFELD:** No, we don't have air sampling
25 data for this period.

1 **MR. GRIFFON:** Okay. Okay.

2 **DR. ZIEMER:** Stu, could -- just for the sake of
3 argument, could one utilize later air samples
4 as an indication of what earlier concentrations
5 might have been, or do we not know enough about
6 the processes in time to say that what was done
7 later could represent the earlier time period?
8 I mean that -- well, that would be one approach
9 if you were to say well, we can reconstruct
10 dose and here's how we would do it. I mean
11 that -- that's --

12 **MR. HINNEFELD:** Well --

13 **DR. ZIEMER:** -- what would come to mind as a
14 first step and -- and so -- tell -- tell me why
15 you can't do that.

16 **MR. HINNEFELD:** Okay, the -- it -- it may be
17 possible to do that in some situations, but
18 recall the history of these -- these MED
19 plants, the 1942 plants. They operated during
20 the War. They produced this uranium and they
21 needed to produce a bomb, and so there was a
22 certain mindset that we're going to produce a
23 bomb, and health and safety was not terribly
24 well-evaluated. In fact, it wasn't until about
25 1948 when the Health and Safety Laboratory

1 started looking at these plants, said, you
2 know, if we're going to keep making uranium and
3 we're going to keep running these plants, we
4 need to find out the conditions and
5 radiological conditions at these plants and do
6 some evaluation. And so once the Health and
7 Safety Laboratory started paying attention to
8 these plants, you know, you can reasonably con-
9 - you should conclude that they made
10 recommendations, 'cause they almost always did,
11 and they felt like, you know, this needs to be
12 done better and they attempted to do it better
13 from a health and safety standpoint. So air
14 sampling data from -- you know, after HASL got
15 involved and saying that is representative of
16 work that was done during World War II, I don't
17 think that's a logical conclusion that you
18 should make.

19 **DR. ZIEMER:** Yeah. So I think the argument
20 then is that even though you have air samples
21 later, those are coupled with probably improved
22 practices based on the fact that you now have,
23 in a sense, a regulator looking over your
24 shoulder --

25 **MR. HINNEFELD:** We -- we tend to see that.

1 **DR. ZIEMER:** -- and -- and therefore you can't
2 make the argument that the practices remained
3 the same -- or the practices were the same
4 later as they were in the earlier case.

5 **MR. HINNEFELD:** And we tend to see that when
6 the Health and Safety Laboratory gets involved
7 in these plants, that --

8 **DR. ZIEMER:** Sure.

9 **MR. HINNEFELD:** -- changes will happen
10 relatively quickly.

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

12 **MR. PRESLEY:** Stu, we do not know where the
13 material came from for Harshaw. Is that
14 correct?

15 **MR. HINNEFELD:** Oh, I think we know in --

16 **MR. PRESLEY:** Do we --

17 **MR. HINNEFELD:** -- general. I don't know for
18 sure --

19 **MR. PRESLEY:** But we can't --

20 **MR. HINNEFELD:** -- where the milled ore came
21 from, for sure.

22 **MR. PRESLEY:** That's what I'm saying, the
23 milled ore, you know, if it came from -- if it
24 was Congo milled ore it had a higher content.
25 I think --

1 **MR. HINNEFELD:** Oh, you mean like the Belgian
2 Congo K-65 --

3 **MR. PRESLEY:** Yeah, yeah.

4 **MR. HINNEFELD:** -- what they called K-65 in
5 some places? I -- right, that would have --

6 **MR. PRESLEY:** Had a big --

7 **MR. HINNEFELD:** -- significantly higher -- I
8 don't -- I don't know. We may, but --

9 **MR. PRESLEY:** And that's --

10 **MR. HINNEFELD:** -- I don't know standing here.

11 **MR. PRESLEY:** Because, you know, if it -- if it
12 did come from there, it would have a
13 significantly higher amount of air parti-- in
14 the air particles.

15 **MR. HINNEFELD:** Yeah, particularly radium. I
16 mean the --

17 **MR. PRESLEY:** Right.

18 **MR. HINNEFELD:** -- Belgian Congo ore was really
19 -- really nice ore.

20 **DR. ZIEMER:** Okay.

21 **MR. HINNEFELD:** Sorry I'm not more long-winded.

22 **DR. ZIEMER:** Any more comments? Okay --

23 **MR. GRIFFON:** Just -- just one more --

24 **DR. ZIEMER:** Oh, Mark, okay.

25 **MR. GRIFFON:** -- thing on external, I -- 187

1 workers, and I wasn't talking out of the whole
2 plant site, but you don't have any indication
3 whether that was -- whether they had a practice
4 of monitoring all workers in that Plant C area
5 or --

6 **MR. HINNEFELD:** Well, standing here, I don't
7 know. I think our -- our information --

8 **MR. GRIFFON:** Most likely it wasn't --

9 **MR. HINNEFELD:** -- about that early -- early
10 film badge data is -- is not real robust. I
11 don't think we have a lot. I mean it's not
12 like we have 187 people who were monitored from
13 1940 through 1948, you know, that we can see
14 that, you know, certain -- you know, it was the
15 same population monitored over time. I
16 believe, if I'm not mistaken, it's a -- it's a
17 very limited time frame that we have the
18 monitoring data for, and it just happened to be
19 187 people on that report which --

20 **MR. GRIFFON:** But does it cover all four years
21 equal-- or -- or -- I mean --

22 **MR. HINNEFELD:** No, I don't believe it covers
23 all four year equally.

24 **MR. GRIFFON:** Do we have any sense of -- do we
25 have that data anywhere that we can look at it

1 kind of and say how many workers were monitored

2 --

3 **DR. ZIEMER:** LaVon, do you --

4 **MR. HINNEFELD:** I'm looking to LaVon

5 Rutherford, who's a little more familiar with
6 the information about the site than I am.

7 **MR. RUTHERFORD:** Do we actually have air -- we
8 have film badge monitoring data starting as
9 early as 1943 and 1944, but it's sparse amount
10 of da-- I mean it's small numbers because they
11 were not monitoring everyone during that time
12 when they first started. And then as -- as the
13 activity is increased and as they moved on
14 further, the number of people monitored
15 increased.

16 **MR. GRIFFON:** And -- and the basis for the
17 badging?

18 **MR. RUTHERFORD:** Well, the --

19 **MR. GRIFFON:** Do you know anything --

20 **MR. RUTHERFORD:** -- the higher --

21 **MR. GRIFFON:** -- about the badging practices?

22 **MR. RUTHERFORD:** -- exposed people, they were
23 looking for --

24 **MR. GRIFFON:** Higher exposed --

25 **MR. RUTHERFORD:** That's basically what we've

1 seen, anyway. It looks like the higher exposed
2 people were monitored.

3 **MR. GRIFFON:** But you -- and you think you have
4 enough information about --

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

6 **MR. GRIFFON:** -- who was monitored that you can
7 at least bound the external dose for all
8 workers in the class?

9 **MR. RUTHERFORD:** Yes.

10 **MR. GRIFFON:** Is that the idea?

11 **MR. RUTHERFORD:** Yes. Between that information
12 we have there, information we have from other
13 sites that were similar activities, you know,
14 with the information between that -- all of
15 those sources, I think we have enough to do --
16 to bound the external exposure.

17 **DR. ZIEMER:** Good. Okay. Robert, did you have
18 another question or --

19 **MR. PRESLEY:** I'm sorry.

20 **DR. ZIEMER:** Okay. Now on this -- on this
21 particular one, we have the opportunity to make
22 a -- a motion in terms of both the SEC and if -
23 - if we are supportive of the recommendation
24 from NIOSH to have appropriate wording, I
25 think, on the -- the potential for dose

1 reconstruction of certain cases that --

2 **DR. MELIUS:** I think we need to get some
3 specific wording on Monsanto to get some
4 feedback from --

5 **DR. ZIEMER:** Right, and --

6 **DR. MELIUS:** -- Board members about the
7 Monsanto and --

8 **DR. ZIEMER:** Indeed we can do what we did
9 yesterday --

10 **DR. MELIUS:** Yeah, just sort of two-step and so
11 --

12 **DR. ZIEMER:** -- and -- and have a generic
13 motion, and if it -- if it passes, then we can
14 ask that the specific wording be developed in a
15 manner similar to what we did yesterday. And
16 the -- the hope would be that by tomorrow we
17 would have a -- a group of actions that we
18 could look at the specific words.

19 So the Chair would entertain a motion -- pro or
20 con, as the group desires -- or -- okay, Wanda
21 Munn.

22 **MS. MUNN:** I move that we accept the
23 recommendation to declare a Special Exposure
24 Cohort for the years established in this
25 petition and for the individuals established in

1 the petition.

2 **DR. ZIEMER:** Okay. The motion would be to
3 recommend to the Secretary approval of this
4 Special Exposure Cohort as described, and the
5 exact wording of the motion to be confirmed
6 later in the meeting.

7 **MS. MUNN:** Correct.

8 **MR. PRESLEY:** Second.

9 **DR. ZIEMER:** And seconded by Mr. Presley. Now
10 is there any discussion on this motion?

11 (No responses)

12 The understanding then is if the motion passes
13 we will return to it later in the meeting to
14 make sure that we agree on the exact words
15 which will define the class and any related
16 items.

17 All in favor, raise your right hand.

18 (Affirmative responses)

19 And it appears to be unanimous. Any opposed?

20 (No responses)

21 Any abstentions?

22 (No responses)

23 And is Dr. Poston on the line at all? We
24 should check on that again. Apparently not.
25 Then the record will show that the motion has

1 passed. Thank you very much.

2 (Pause)

3 Dr. Wade has suggested that we proceed with a
4 little bit of sort of housekeeping business on
5 future meeting dates, and we can -- we can go
6 over that now. It's something we would have to
7 do sometime in the meeting. And Lew, you can
8 review for us the upcoming meetings and then
9 beyond that what is needed.

10 **DR. WADE:** Okay. What we have on the -- the
11 schedule now is a Board call on January 11th.

12 **DR. ZIEMER:** Do we -- we don't have the time
13 established for that yet, do we, or --

14 **DR. WADE:** Well, we can do that right now. Out
15 of deference to our friends on the west coast,
16 we could start at 10:00 a.m. eastern time.

17 **MS. MUNN:** That would be nice.

18 **MR. CLAWSON:** Be fine.

19 **DR. WADE:** 10:00 a.m. Eastern time on January
20 11th we'll have a Board call.

21 **DR. MELIUS:** 8:00 a.m.

22 **MS. MUNN:** Don't even start.

23 **DR. ZIEMER:** Last time we did it I think at
24 11:00, was it, Eastern time, and --

25 **MS. MUNN:** We did it at 11:00 Eastern time.

1 **DR. ZIEMER:** Did that work pretty well?

2 **DR. WADE:** We'll let a Westerner pick the time,
3 8:00 -- now you guys have got me doing it --
4 10:00 or 11:00 a.m. Eastern time?

5 **MS. MUNN:** Will we be able to conclude our
6 business if we start at 11:00?

7 **DR. ZIEMER:** I believe so.

8 **DR. WADE:** I believe so.

9 **DR. MELIUS:** One way or the other.

10 **MS. MUNN:** I would prefer 11:00.

11 **DR. WADE:** Okay.

12 **DR. ZIEMER:** Without objection, we'll do 11:00
13 o'clock.

14 **DR. WADE:** 11:00 a.m. on the 11th, that'll help
15 those of us memory challenged.

16 **MS. MUNN:** Good.

17 **DR. WADE:** Then on February 7, 8 and 9 the
18 Board will meet -- we're intending to meet in
19 Denver, weather not permitting, on 7, 8 and 9.

20 **MR. PRESLEY:** I've got 6, 7 and 8, is it -- are
21 we changing it?

22 **DR. WADE:** Yes, we changed it --

23 **DR. ZIEMER:** 7, 8, 9 is what I have.

24 **DR. WADE:** -- 7, 8 and 9, yeah -- long time
25 ago. Then on April 5th we have a Board call.

1 I would say ostensibly at 11:00 a.m. again.

2 **MS. MUNN:** On April --

3 **DR. WADE:** 5th.

4 **DR. ZIEMER:** 5th.

5 **MS. MUNN:** -- 5th?

6 **DR. ZIEMER:** Uh-huh.

7 **MS. MUNN:** Have we abandoned the March call, I
8 believe?

9 **DR. WADE:** Yes, in the latest e-mails that we -
10 - trying to deal with everyone's schedule, we
11 have now April 5th.

12 **MS. MUNN:** No 7 March.

13 **DR. ZIEMER:** No.

14 **DR. WADE:** Then on May 2nd, 3rd and 4th we have
15 a Board meeting -- May 2nd, 3rd and 4th, a
16 Board meeting at a location to be determined.
17 This is -- I think we accommodated everyone's
18 wishes.

19 Now that's the end of what's on the schedule
20 now. I have proposals to make to you, so what
21 I would -- what I would propose to do is give
22 you dates, and then tomorrow we can talk about
23 them and hopefully finalize dates. And all I'm
24 doing in choosing these dates is using just a
25 rule of thumb of spacing the meetings out, on

1 average, two and a half months.

2 So I propose on June 12th, a call. No need to
3 comment now; we can comment tomorrow. I
4 propose that on July 24, 25 and 26, a face-to-
5 face meeting. I propose on Sep--

6 **DR. ROESSLER:** May I ask about July?

7 **DR. WADE:** Surely.

8 **DR. ROESSLER:** Okay. I don't have it on my
9 calendar here, but we have a Health Physics
10 meeting. Do you know when --

11 **DR. ZIEMER:** The Health Physics --

12 **DR. ROESSLER:** -- that is?

13 **DR. ZIEMER:** -- meeting is July 8 through 12.

14 **DR. ROESSLER:** Okay, that's good.

15 **DR. WADE:** September 6th, a call.

16 **DR. MELIUS:** Can -- can you go back --

17 **MR. PRESLEY:** Yeah, go back to July, please.

18 **DR. WADE:** July 24, 25 and 26, a face-to-face
19 meeting. September 6th, a Board call. October
20 2nd, 3rd and 4th, a face-to-face meeting.

21 **DR. MELIUS:** Can you repeat those dates?

22 **DR. WADE:** October 2nd, 3rd and 4th. December
23 6th, a call.

24 **UNIDENTIFIED:** December?

25 **DR. WADE:** December 6th, a call. And then

1 January 2008 -- what year is this?

2 **DR. ZIEMER:** Yeah, it'll be 2008. A year from
3 this January.

4 **DR. WADE:** January 8, 9 and 10, 2008, a face-
5 to-face meeting. And that will get us a whole
6 year of activity on the docket and hopefully
7 give you adequate planning time.

8 Now again, I appreciate the fact that I've
9 probably stepped on someone's important dates,
10 and you can -- we can talk about that tomorrow.

11 **DR. ZIEMER:** We'll revisit this later in this
12 meeting. Go back and look at your calendars,
13 unless you have them already and know of
14 conflicts.

15 **DR. WADE:** Right, we can make adjustments. I
16 thought this would be a good way to do a two-
17 step and try and get a year on your -- on your
18 calendars.

19 **MS. MUNN:** Very helpful.

20 (Pause)

21 **DR. ZIEMER:** We're trying to determine if
22 there's any way to track where the Senator
23 might be in terms of his schedule.

24 **MS. MUNN:** Should we have any discussion about
25 where we're going to meet in May?

1 **DR. WADE:** We could. I'm op-- open for
2 discussion of where we would meet in May. I
3 think the rule I've been using is to let the
4 events dictate, and we should be where the
5 people that we will be acting upon will be
6 located. And sometimes that's hard to
7 determine out in front, but I'm open to
8 suggestions. We talked about going to
9 Pinellas, so let's continue to talk.

10 **DR. ZIEMER:** Yes, Larry, in terms of what's
11 coming --

12 **MR. ELLIOTT:** I'll try to help out a little bit
13 here. By February you -- you have Fernald in
14 advance now, Fernald SEC evaluation report's in
15 your hands. You will also have I believe -- we
16 hope to have Bethlehem Steel evaluation report
17 to you. LANL evaluation report should arrive
18 to -- in your hands in January, as well as Dow
19 Chemical, and I believe that's all I can -- all
20 I can identify at this point.

21 **DR. ZIEMER:** So Fernald and LANL might be --

22 **DR. WADE:** Well, you know, you're going to talk
23 about Blockson today. I don't know what you're
24 going to decide about Blockson. You've got a
25 workgroup meeting on Chapman Valve.

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

2 **MR. PRESLEY:** NTS coming up.

3 **DR. WADE:** Got NTS issues, so I don't know that
4 we can choose now, but it's good to get a sense
5 of the Board as to -- to where you might like
6 to be. Mike, thoughts?

7 **DR. MELIUS:** I think we need to probably get
8 back to Los Alamos and Hanford because of the
9 SEC. We haven't -- we haven't been to either
10 place in quite some time. And given the size
11 and the interest of the -- the groups there, so
12 I think those should be under consideration, so
13 forth. I think Fernald is another group that's
14 been active and interested, so that should be -
15 - list and -- 'cause I think it's important
16 with the SEC process that we sort of do -- do
17 what we can to accommodate the people in terms
18 of public interest. It's -- clearly with the
19 numbers involved, it's getting very difficult,
20 but I think that -- that should probably be the
21 -- be the major consideration.

22 Then there are places like Pinellas and Pantex
23 and so forth that we haven't been to and -- at
24 all and we -- we ought to be trying to hold
25 meetings -- meetings there.

1 **DR. ZIEMER:** Well, there's a number of
2 possibilities, and probably by our next meeting
3 we'll have a better sense of what -- what's
4 most pressing and -- and select from one of
5 these sites. Does that give the office enough
6 lead time in terms of hotel arrangements?
7 Okay.

8 **DR. WADE:** Okay, so when we have -- tomorrow
9 we'll be able to close on dates, and I
10 appreciate the thoughts as to location.

11 **DR. ZIEMER:** Any word --

12 **DR. MELIUS:** Pinellas in July.

13 **DR. WADE:** The other issue that we have tabled,
14 not formally, is Dr. Melius's suggestion of a
15 working group to deal with 83.14 petitions.
16 While we have a moment we could begin that
17 discussion. I think with an 83.14 petition
18 fresh in our minds, it might be an appropriate
19 time -- or anything the Chair would think --

20 **DR. MELIUS:** I -- I think --

21 **MR. ELLIOTT:** (Off microphone) (Unintelligible)
22 question yesterday --

23 **DR. ZIEMER:** Sorry? Oh, Larry, did you say you
24 had some feedback for us?

25 **MR. ELLIOTT:** From the questions on General

1 Atomics yesterday, we can provide feedback if
2 you want.

3 **DR. ZIEMER:** Well, let's do that, at least --
4 what -- sure, if you have the information now,
5 it would be good to -- probably wouldn't take
6 very long.

7 **DR. WADE:** And ergonomically speaking, I would
8 suggest you either raise the microphone or --

9 **DR. ZIEMER:** He needs the exercise.

10 **DR. WADE:** This is NIOSH, after all.

11 **MR. RUTHERFORD:** Yeah, the questions were for
12 data captures for General Atomics. We did
13 three specific data captures at General
14 Atomics. We also did NRC research, our search
15 documentation, and found nothing on General
16 Atomics for that period. And let me see, we
17 specifically looked for AEC inspection reports
18 and found nothing. We actually got word from
19 the site that they think they were disposed,
20 so...

21 **DR. ZIEMER:** State of California, did --

22 **MR. RUTHERFORD:** We -- we haven't gone
23 specifically and -- to the State of California
24 and asked them for General Atomics, but we --
25 but what we determined was the State of

1 California did not have a license -- or did not
2 have control of General Atomics at that time,
3 not to -- but --

4 **DR. ZIEMER:** They were not yet a -- an
5 agreement state.

6 **MR. RUTHERFORD:** Well, they an agreement state.
7 Actually in 1962 we found out they were an
8 agreement state, but -- but from what we're
9 reading through, the documentation, it appears
10 that AEC actually had control over most of the
11 material up until the early '70s, especially
12 the special nuclear material --
13 (unintelligible) nuclear material.

14 **DR. ZIEMER:** Very good. Well, thank you for
15 that information. Yeah.

16 **MR. GRIFFON:** You tell me on the data -- you
17 mentioned three data captures --

18 **MR. RUTHERFORD:** Yes.

19 **MR. GRIFFON:** -- can you expand more on what --
20 what -- what did you find and...

21 **MR. RUTHERFORD:** Well, as -- I think I went
22 over yesterday what we found. We did find
23 external monitoring data for all employees
24 through the -- through the operating period.
25 We found internal monitoring bioassay data for

1 uranium. We found no thorium monitoring data
2 for the period. And we found no -- actually we
3 really found no monitoring data, internal
4 monitoring data, for other radionuclides, as
5 well.

CONGRESSIONAL COMMENTS
SENATOR OBAMA

6 **DR. ZIEMER:** Okay. Thank you very much for
7 that information. We're going to pause here
8 now and...

9 (Pause)

10 Do we have a lavalier mark -- mike at the
11 podium, or another mike? Where's our AV guy?

12 (Pause)

13 They're putting on a mike now, okay.

14 (Pause)

15 Ladies and gentlemen, we're pleased to have the
16 Senator from Illinois, Senator Obama, with us
17 today. He's been kind of on a whirlwind. I
18 noticed you were in New Hampshire and then at
19 the ball game last night, and here we are --
20 this'll be the most exciting thing you've done
21 all week. Welcome to -- welcome to the meeting
22 of the Advisory Board on Radiation and Worker
23 Health.

24 (Pause)

1 **SENATOR OBAMA:** Can everybody hear me?

2 Wonderful.

3 Well, to all the members of the Advisory Board,
4 thank you very much for taking the time out of
5 your planned agenda to allow me to speak to you
6 today. I very much appreciate it and I -- I
7 apologize in advance for the -- the fuss that --
8 -- that my appearance is causing to your
9 meeting.

10 During my two years in the United States Senate
11 my staff and I have been advocating on behalf
12 of thousands of men and women in Illinois who
13 worked in our nation's nuclear weapons program.
14 They're hard-working Americans. They toiled
15 for years under difficult conditions to produce
16 the armaments that helped to protect us during
17 the Cold War. And as a nation, I think we owe
18 them our gratitude.

19 The reason I'm here today is because it's my
20 strong feeling that that gratitude needs to be
21 expressed more than just in words. As the
22 Board members are well aware, these workers
23 performed tasks that were often very dangerous.
24 Day after day workers were handling a variety
25 of radioactive substances with a minimal amount

1 of protection. As a result, a large number of
2 the people who worked on the weapons program
3 developed cancers and other radiation-induced
4 illnesses. Many have already died and many
5 more are dying.

6 I think it's also important to note that many
7 of them were not entirely aware of the risks
8 that confronted them at the time that they were
9 working there, and their families were not
10 aware of it. We just heard testimony from a
11 woman whose father used to come home and would
12 be shaking dust off -- off his -- his clothes
13 after having cleaned out bins containing
14 uranium in them, and there was no awareness on
15 his part or his family's part that this could
16 be hazardous.

17 So as all of you are aware, and I'm recognizing
18 I'm saying stuff that -- some -- some things
19 that you already know, to help these brave
20 Americans, Congress passed the Energy Employees
21 Occupational Illness Compensation Program Act
22 in 2000 to provide compensation to eligible
23 workers.

24 Now unfortunately, the process to receive
25 compensation has proven to be not an easy one.

1 It requires a substantial amount of proof on
2 the part of workers, proof of each individual
3 worker's years of employment, the type of work
4 they performed, the radiation to which they
5 were exposed, as well as more general
6 information about the plant's procedures,
7 including its safety measures and its
8 government inspections. For many families and
9 many individuals, this evidence is extremely
10 difficult to obtain, decades after the fact.
11 Now fortunately we have the SEC petition
12 process, which is why the Board is meeting
13 today. So I just want to spend a few moments
14 talking about four Illinois plants in
15 particular that have -- or I hope shortly will
16 have -- SEC petitions before the Board. I have
17 some more detailed comments that I'll submit to
18 you for the record.

19 At the outset let me say that this issue is a
20 serious one in the state of Illinois. Our
21 state ranks third in the nation in the number
22 of sites covered under this program. More than
23 3,500 claims have been filed by workers and
24 their survivors at 17 different sites. The
25 seriousness of this problem has brought

1 together a bipartisan coalition of members of
2 Congress -- Senators Philbin and myself, as
3 well as Congressmen Costello, Shimkus and
4 Weller -- to help these workers receive the
5 compensation they deserve.

6 Today the Board considers the SEC petitions for
7 Blockson Chemical Company in Joliet and Allied
8 Chemical Company in Metropolis. And we have,
9 by the way, some workers who drove the eight
10 hours from Metropolis to be here today. At the
11 Blockson plant 298 claims have been filed on
12 behalf of workers; only nine have been paid.

13 As I understand it, an SEC designation is
14 warranted when there is a lack of evidence to
15 accurately reconstruct the doses of radiation
16 to which the workers were exposed. In this
17 case NIOSH admits that they have no monitoring
18 data for the Blockson workers. NIOSH has,
19 however, contended that there is sufficient
20 information to conduct a dose reconstruction by
21 calculating the radiation that the Blockson
22 employees were exposed to based on radiation
23 that workers at an unrelated factory were
24 exposed to and on urinalysis data from some,
25 but not all, Blockson workers.

1 I confess I am not a radiation expert. There
2 are some around this table who are. But it
3 does strike me that that is a somewhat suspect
4 way at arriving at whether Blockson workers
5 were sufficiently exposed to deserve
6 compensation. It also seems to me to be
7 contrary to the intent of the original
8 legislation governing this compensation
9 program, and I'd strongly urge the Board to
10 review this policy.

11 I'm also concerned that no official worker
12 outreach meeting was conducted with the
13 Blockson workers. Seems to me that if you're
14 going to do a dose reconstruction, you'd want
15 to talk to all the workers, find out what
16 evidence they have, and give them all a chance
17 to comment on the procedure you're going to
18 follow. So as a consequence I would urge the
19 Board to postpone its decision regarding the
20 Blockson SEC petition until after the Board's
21 independent auditor has had a chance to review
22 NIOSH's arguments.

23 At the Allied Chemical plant in Metropolis
24 there have been 227 claims filed, but only 28
25 have been paid. Unlike Blockson, I'm pleased

1 that NIOSH has correctly recognized that there
2 is no exposure data from the Allied plant with
3 which to reconstruct the remaining doses
4 accurately. The only concern I have about the
5 Allied SEC is that NIOSH evaluation report does
6 not seem to take into account evidence of
7 residual contamination, as well as shipments
8 from other sites around the country. Workers
9 have explained that these shipments may have
10 contained recycled uranium residues. For this
11 reason, I hope the Board will consider
12 expanding the Allied Chemical class.
13 At your February meeting I know that you will
14 be considering the SEC petition of the Dow
15 Chemical plant in Madison, Illinois as well.
16 Unfortunately I won't be able to attend that
17 meeting, but I want to lend my support to that
18 petition, and I want to commend the Southern
19 Illinois Nuclear Workers, the group that
20 initially brought this issue to my attention,
21 for all their hard work on behalf of Dow and
22 General Steel workers.
23 Of the 253 claims on file for Dow, only two
24 have been approved. Many of these claims are
25 at least five years old, and unfortunately some

1 of the claimants have died before they were
2 able to receive compensation. Workers at the
3 Dow plant were exposed to uranium, beryllium
4 and thorium metal. Few radiation monitoring
5 badges were ever worn. There was no organized
6 safety program in place, and workers were not
7 informed nor provided with appropriate
8 protection equipment.

9 I commend NIOSH for nominating Dow Chemical for
10 an SEC, and hope the petition can be approved.
11 But I am concerned about the size of the class.
12 I understand that the coverage period will be
13 limited to 1957 to 1960, despite overwhelming
14 evidence that the workers were exposed to many
15 harmful sources of radiation beyond 1960, for
16 which NIOSH cannot reconstruct doses. As a
17 consequence, I hope the Board will examine the
18 time frame proposed for the Dow SEC class.

19 I also want to bring to the Board's attention
20 General Steel Industries, or GSI, in Granite
21 City, Illinois, which has significant amounts
22 of residual contamination to be considered. In
23 fact, the site was not cleaned up by the
24 Department of Energy until 1996. To date GSI
25 has filed 744 claims on file, but none have

1 been paid. Of the 192 cases referred to NIOSH
2 for dose reconstruction, only four have been
3 completed. Clearly these dose reconstructions
4 cannot be performed in a timely fashion.
5 NIOSH also admits that it has no monitoring
6 data of any kind for the General Steel plant,
7 and there is no comparable site around the
8 country. For these reasons, NIOSH should
9 identify General Steel for SEC status.
10 Finally I'd like to offer some general comments
11 about the implementation of this compensation
12 program. First, there is an -- a problem of
13 inordinate delays. Much more -- based on what
14 I'm hearing from families and the workers --
15 needs to be done to ensure dose reconstructions
16 are performed in a timely fashion. The notion
17 that claimants would have to wait more than six
18 years after enactment of the law for their
19 doses to be reconstructed is far beyond the
20 kind of delays imagined when this law was
21 enacted. To this end, I would urge NIOSH to
22 implement performance and evaluation goals for
23 all the employees working on this program.
24 Second, there is the problem of lack of
25 information. Over the past two years the

1 Illinois Congressional delegation has sent
2 numerous information requests to many of the
3 agencies and staff involved with this program.
4 While some requests have been answered in a
5 reasonable time frame, many have not. If a
6 United States Senator or a United States
7 Congressman cannot get timely answers to
8 reasonable questions, I'm hard pressed to
9 imagine how a 70-year-old retired worker who
10 doesn't have a lawyer and has cancer is going
11 to obtain the information he needs to
12 effectively present his claims.

13 Third, I'm concerned that there needs to be a
14 more balanced perspective in the way that these
15 claims are considered. I appreciate the hard
16 work that all of you do, and I recognize that
17 oftentimes we're dealing with difficult
18 scientific issues. At the same time, there's a
19 perception on the outside and among the workers
20 and families that have been impacted that the
21 Board isn't able to properly perform its
22 responsibilities because of lack of medical and
23 worker representatives on the Board, and this
24 is an issue that I plan to address with the
25 White House in the near future.

1 Just my -- my closing point would be this. We
2 are talking about a -- a finite number of
3 workers, many of them aging, who -- as I said
4 at the outset -- conducted work that was vital
5 to this nation's interests. In many ways they
6 are veterans of our Cold War. Many of them
7 were also veterans of hot wars. It strikes me
8 that to the extent that we have a presumption
9 that they should be helped and can be helped,
10 we should apply that presumption. I am always
11 concerned with bodies like this that the
12 presumption works in the opposite direction,
13 and that because of budget considerations we
14 try to restrict, as much as possible, access to
15 help on the part of the workers and their
16 families. I hope that we keep in mind that if
17 this had been our father or our grandfather in
18 this same situation, we would want them to be
19 treated fairly and that that is uppermost on
20 the Board's mind as it makes these decisions.
21 So I thank you very much for allowing me to
22 address you today. My staff and I look forward
23 to working with you on behalf of Illinois'
24 workers who are covered by this important
25 program, and I appreciate the service that

1 'cause you've got some --

2 **MR. RUTHERFORD:** Actually that was for the
3 Monsanto petition.

4 **MR. GRIFFON:** Oh, that was Monsanto?

5 **MR. RUTHERFORD:** Yeah, that was Monsanto, and
6 we actually got those reports on the document
7 drive for you, made available, and I will go
8 ahead and finish that -- addressing that. The
9 Monsanto petition -- Mark had identified -- you
10 know, asked the question how much air sampling
11 data we actually had. And we -- we had -- what
12 we have is summaries of data from 1947 to 1949
13 in progress reports. We don't have any real
14 data prior to that time, and these are -- like
15 I say, there are summaries. And it is alpha
16 activity. And as I pointed out to Mark, the --
17 the activation products and other things, there
18 were pure beta-emitters that we have no data to
19 support air sampling for.

20 **DR. ZIEMER:** Okay. Yes, Jim.

21 **DR. LOCKEY:** Can you give us a summary table
22 for the -- the General Atomics SE--

23 **MR. RUTHERFORD:** What we can and can't do?

24 **DR. LOCKEY:** Yes. Can you do that now for us?

25 **MR. GRIFFON:** Just describe it now, yeah.

1 **MR. RUTHERFORD:** I can say that -- and -- and
2 again, this is -- this is a lot like what Stu
3 had mentioned. In the 83.14 we'd identified a
4 class where we -- you know, a portion of
5 something we could not do and we wanted to move
6 forward with that -- that class. Right now we
7 believe we can do uranium internal dose for the
8 class period. We believe we can do all
9 external dose for the class period, both beta,
10 gamma and neutron. We do not believe we can do
11 any thorium internal exposure for the class
12 period. Oh, and we do believe we can do
13 occupational medical.

14 **DR. ZIEMER:** Okay. So the chart would be all
15 external --

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

17 **DR. ZIEMER:** -- would -- is feasible.

18 **MR. RUTHERFORD:** Right.

19 **DR. ZIEMER:** Internal uranium is feasible.
20 Internal thorium or other nuclides --

21 **MR. RUTHERFORD:** Are not feasible.

22 **DR. ZIEMER:** -- are not feasible. So the --
23 the recommendation is based on inability to do
24 internal dose. Is that correct?

25 And Jim, follow-up on that?

1 **DR. LOCKEY:** Just -- just that I'm satisfied,
2 based on the initial motion when we tabled
3 this, and I -- I'm ready to go ahead and make a
4 motion that we approve this SEC.

5 **DR. ZIEMER:** Okay, before you do that, let's
6 see -- Jim, you have also a comment?

7 **DR. MELIUS:** Yeah, actually I'm not satisfied
8 and I -- in terms of the answers we've gotten
9 so far, and I guess my particular concern is
10 the one that Dr. Ziemer raised, is -- is
11 whether we have adequate justification for the
12 -- it's actually a list of buildings and --
13 there, it's on page 11 of the evaluation
14 report, sort of connecting up some of these as
15 to whether there was -- given what can or
16 cannot be or what can't be re-- reconstructed,
17 are we certain that that's -- all of that is
18 applicable to all of those facilities.

19 **MR. RUTHERFORD:** Our position was is that we
20 had no evidence to support that those buildings
21 were not -- should not be included. Okay? We
22 have evidence that -- you know, if -- without
23 enough information that -- that we could say
24 that -- that thorium materials were not stored,
25 used or processed in those facilities -- you

1 know, without that information, we were -- we
2 were forced to go down that route.

3 **DR. ZIEMER:** And am I correct in understanding
4 there -- there's no evidence that anyone would
5 have been restricted, either by badge or other
6 means, to only certain buildings. For example,
7 if -- if I'm a maintenance worker -- well, or
8 let's say a worker in the accelerator -- that I
9 can go into any building on the site, as
10 opposed to some -- you have -- you have no --

11 **MR. RUTHERFORD:** Yes.

12 **DR. ZIEMER:** -- evidence that they --

13 **MR. RUTHERFORD:** We have no evidence --

14 **DR. ZIEMER:** -- were in some way restricted to
15 certain buildings based on --

16 **MR. RUTHERFORD:** They may have been, but --

17 **DR. ZIEMER:** -- badge, coding or whatever.

18 **MR. RUTHERFORD:** They may have been, but we
19 have evidence of that that we've found to date.

20 **DR. ZIEMER:** So you -- we almost have to assume
21 if they worked on the site, they could enter
22 any of the buildings, regardless -- you know, I
23 -- I raise questions, well, why, for example,
24 is the analytical lab in there. But if those
25 folks can wander into some other building, then

1 that's immaterial, I guess.

2 Did you have a follow-up, Jim, or -- Jim
3 Lockey.

4 **DR. LOCKEY:** So I understand the default
5 position is since you can't reconstruct
6 thorium, you don't know what building it was
7 in, we'll assume that it can't be constructed
8 for anybody who worked in any of those
9 buildings at any time.

10 **MR. RUTHERFORD:** That is correct.

11 **DR. ZIEMER:** Remind me on -- I think General
12 Atomics was the one where we actually didn't
13 even have a sort of straw vote. We tabled it
14 outright; is that correct?

15 **DR. MELIUS:** Correct.

16 **MR. PRESLEY:** That's exactly right.

17 **DR. ZIEMER:** And Jim, are you proposing at this
18 time a motion?

19 **DR. LOCKEY:** I propose a motion we approve the
20 SEC petition for General Atomics.

21 **DR. ZIEMER:** With the caveat that we would find
22 appropriate wording again, as we have arguing
23 on the others.

24 **DR. LOCKEY:** Correct, and with the table
25 outlined -- summary table as to what can be

1 done and what can't be done.

2 **DR. ZIEMER:** Is there a second to that motion?

3 **MR. PRESLEY:** I second that.

4 **DR. ZIEMER:** Actually technically we have to
5 have a motion to take it off the table, but I
6 think -- unless there's an objection -- the
7 Chair will rule that -- that there's consensus
8 that we take it from the table and -- unless
9 there's objection. Any objection to taking it
10 from the table and acting on...

11 (No responses)

12 Okay, so it's -- the motion is before us.

13 Comments, questions? Mark.

14 **MR. GRIFFON:** Really just -- this is to refresh
15 my memory on the uranium, you say you can
16 reconstruct uranium exposures. What data do
17 you -- do you have bioassay -- individual
18 bioassay data?

19 **MR. RUTHERFORD:** Yeah, we have individual
20 bioassay data for the period for uranium.

21 In ad-- in addition to that, Mark, we also have
22 some lung counts that were conducted after
23 1966. There -- there's questions right now how
24 much quality those lung counts -- or how much
25 information they're going to provide, so we are

1 going to focus on the bioassay data because the
2 lung counts were -- at the time they were
3 identified as experimental, and those lung
4 counts were solely identified to workers that
5 were working with uranium. They had absolutely
6 noth-- they did not isolate out any of the
7 thorium workers, so...

8 **DR. ZIEMER:** LaVon, do -- do you know if the
9 uranium bioassays were uranium-specific? In
10 other words, were they doing -- was it a
11 chemical bioassay where you do the chemical
12 process and actually get the uranium out or was
13 it a gross alpha that would --

14 **MR. RUTHERFORD:** It was a gross alpha and we
15 actually looked at the idea of using that gross
16 alpha data to possibly bound our thorium. But
17 the problem was is the thorium operations were
18 so diverse and were not used in conjunction
19 always with the uranium such that you could --

20 **DR. ZIEMER:** So you don't know --

21 **MR. RUTHERFORD:** -- develop the ratios
22 (unintelligible) --

23 **DR. ZIEMER:** -- from the gross alpha whether
24 it's uranium or thorium.

25 **MR. RUTHERFORD:** Right.

1 **DR. ZIEMER:** Okay. And I'm -- I'm --

2 **MR. RUTHERFORD:** And recognizing the bioassay
3 program was set up for uranium workers, it was
4 not specifically associated with thorium
5 workers.

6 **DR. ZIEMER:** Gotcha. I -- I was trying to get
7 a feel for whether or not -- what would happen
8 if you just assumed everything was thorium, but
9 you're still going to miss a bunch of people --

10 **MR. RUTHERFORD:** That's the concern --

11 **DR. ZIEMER:** -- is what you're saying.

12 **MR. RUTHERFORD:** -- that was exact -- our exact
13 concern is is we may have missed the actual
14 person that was the higher exposed individuals
15 for the thorium itself.

16 **DR. ZIEMER:** Right. Okay, gotcha. Board, are
17 -- are you ready to act on this -- on this
18 motion?

19 Okay, all in favor, say aye -- well, let's
20 raise hands, let's catch it here.

21 (Affirmative responses)

22 We've got one, two, three, four, five.

23 And opposed?

24 (No responses)

25 And abstaining?

1 (Indicating)

2 We've got two absten-- three abstentions.

3 Okay. Actually that means the motion carries,

4 and we will have to develop wording again on

5 this one, as we are doing on the others.

6 I think we're going to go ahead and proceed

7 with our lunch break and give you a little --

8 little bit more time to -- to wolf down your

9 lunch. We'll -- we'll recess until 1:00

10 o'clock. Thank you very much.

11 (Whereupon, a recess was taken from 11:43 a.m.

12 to 1:09 p.m.)

BLOCKSON CHEMICAL CO. SEC PETITION

DR. BRANT ULSH, NIOSH/OCAS

13 **DR. ZIEMER:** We're now ready to resume our

14 afternoon session of the Advisory Board on

15 Radiation and Worker Health. The first item on

16 the afternoon agenda is the SEC petition from

17 Blockson Chemical Company. The presentation

18 for NIOSH on their review of the petition is

19 going to be presented by Dr. Ulsh. Also I

20 think we may have some petitioners either

21 present or on the line, do we? Let's double-

22 check.

23 **DR. WADE:** I would ask if the petitioners or

24 their representatives are here in the room or

1 on line, would you identify yourselves.

2 **MR. LAPINE:** My name is Michael Lapine. I'm
3 one of the attorneys working with Dennis
4 Kellogg, who is one of the petitioners for the
5 Special Exposure Cohort for Blockson Chemical.

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

7 **DR. WADE:** And you'll have an opportunity to
8 make a statement, if you'd like, after the
9 statement made by NIOSH.

10 **MR. LAPINE:** Thank you, sir.

11 **DR. ZIEMER:** Any others, either here or on the
12 phone?

13 (No responses)

14 **DR. ZIEMER:** Okay, let's proceed then. Brant,
15 if you'll make the presentation and then we'll
16 proceed from there.

17 **DR. ULSH:** Okay. Thank you, Dr. Ziemer. I was
18 told this morning by Ray that he had trouble
19 hearing me in my presentation. Ray, how are we
20 now? Is it good or -- okay, all right.

21 All right. As Dr. Ziemer mentioned, my name is
22 Brant Ulsh, and I'd like to talk to you today
23 about the NIOSH evaluation of the Blockson
24 Chemical Company SEC petition. And it occurs
25 to me that a lot of us sitting around the table

1 here and a lot of the NIOSH staff are much more
2 familiar with this process than -- than those
3 of you folks sitting out in the audience, so I
4 thought I might just take a few minutes to talk
5 about what I am here to tell you and what I'm
6 not here to tell you.

7 First of all, let me just walk through the
8 process as you might have experienced it if
9 you're a claimant in our program. When you
10 submit a claim for compensation, it's submitted
11 to the Department of Labor. They -- the
12 Department of Labor verifies employment and the
13 covered condition, so employment at a covered
14 facility, in this case, Blockson Chemical
15 Company; and also in this case, a cancer that
16 might be caused by radiation. So that would be
17 any type of cancer, with the exception of
18 chronic lymphocytic leukemia.

19 Once the Department of Labor has verified those
20 facts, they refer the case to NIOSH for dose
21 reconstruction. Now usually we'll do the dose
22 reconstruction and send it back to the
23 Department of Labor and they will make a
24 compensation decision, either award
25 compensation or don't award compensation. Now

1 that's the way the process normally works.
2 In some situations, however, NIOSH is asked to
3 evaluate whether or not we really have the
4 means to do dose reconstruction to inform the
5 Department of Labor's decision. And we are
6 faced with that kind of a situation today with
7 the Blockson Chemical Company.
8 So the message that I want to get across to you
9 is that I'm not here to make a recommendation
10 on whether or not compensation should be
11 awarded to any particular claimant or group of
12 claimants, but rather to comment on our
13 evaluation of whether or not NIOSH can even do
14 dose reconstruction. And there are a couple of
15 possible outcomes, and this is certainly not
16 meant to be an exhaustive list, but let's just
17 consider what might happen today after I give
18 my presentation and the petitioner has an
19 opportunity to speak and the Board deliberates.
20 They could choose to recommend an SEC class.
21 And if they did that, they would issue a
22 recommendation. The Director of NIOSH would
23 also issue a recommendation, and then it would
24 go to the Secretary of Health and Human
25 Services for him to consider and issue his own

1 recommendation to Congress.

2 On the other hand, the Board might choose not
3 to recommend the class, in which case NIOSH
4 would continue as we have been doing, do dose
5 reconstructions for individual claimants, and
6 as we finish those, refer them back to the
7 Department of Labor so that they can make a
8 compensation decision.

9 And lastly, the Board might choose to take more
10 time to think about it, refer it perhaps to
11 their audit contractor for more consideration.
12 Now as I said, this is not meant to be an
13 exhaustive list. The Board can do -- it can
14 act in whatever manner it sees fit. But those
15 are three possible outcomes as what could
16 happen today.

17 All right. So with that introduction -- oh,
18 let me tell you just a little bit more. We are
19 here to consider a petition that was submitted
20 from outside NIOSH by a group of petitioners
21 that don't believe that NIOSH has the means to
22 do dose reconstructions with sufficient
23 accuracy. So let's move into the -- the meat
24 of the presentation.

25 So just a little bit about what happened at

1 Blockson. Most of you in the audience probably
2 already know that Blockson Chemical Company was
3 a facility that their primary mission was to
4 manufacture technical phosphates. Now they
5 were -- Blockson Chemical Company was
6 approached by the Atomic Energy Commission
7 about taking one of the product streams that
8 Blockson uses -- used in their commercial
9 operations, and this is the phosphoric acid
10 stream, and the AEC asked Blockson --
11 approached Blockson about separating uranium
12 from that phosphoric acid stream. So that was
13 the primary covered work that occurred at
14 Blockson.

15 So we're not really -- we're not talking about
16 the normal commercial work that happened at
17 Blockson, but rather the special work that the
18 AEC, Atomic Energy Commission, asked Blockson
19 to perform.

20 And once the uranium was separated into a
21 product called yellowcake, that material was
22 then packaged -- it's a uranium concentrate.
23 It was packaged into drums and shipped off-
24 site.

25 Okay, so here's a little schematic that shows

1 pretty much what I just talked about. The
2 material that was used in Blockson's process
3 was phosphate rock from Florida. That -- that
4 rock arrived on site, and it was separated into
5 a couple of streams. The first stream -- oh,
6 supposedly I have a way to do a laser pointer
7 here but I'd probably wind up screwing it up.
8 The first stream is the top stream here. This
9 is the commercial operations that were used for
10 the technical phosphate production.
11 The second stream, that the AEC was interested
12 in, is right here, the phosphoric acid stream.
13 And that phosphoric acid stream was diverted
14 first into a pilot plant. There was a pilot
15 plant built to demonstrate the feasibility of
16 this process. That was quickly followed by --
17 let's see if I can do this -- Building 55.
18 That building was constructed specifically to
19 do the work that AEC was asking Blockson
20 Chemical Company to perform.
21 Now, the important thing to note here is that
22 in this stream here, the phosphate stream,
23 there is a radionuclide called radium that
24 follows that phosphate stream. When radium
25 decays, one of the daughter products is radon.

1 And I know that that is a topic of great
2 concern for the Blockson folks. I'd like to
3 spend a little bit of time talking about that.
4 The radon, as I mentioned, did not go -- the
5 material that generated radon did not go into
6 Building 55. All right? So I know there's
7 some concern about radon. The material that
8 generated radon, the phosphate rock, came from
9 Florida. So I'm going to get into in a little
10 bit how we estimated radon doses for Blockson
11 workers. But this is an important distinction
12 to keep in mind. Technically, the radon -- the
13 material that generated radon didn't even go
14 into Building 55 and wasn't necessarily part of
15 the covered work at Blockson -- at the Blockson
16 site.

17 Okay, here is a little bit of history of the
18 Blockson site, at least as it concerns the
19 covered work that the Atomic Energy Commission
20 asked them to do.

21 The pilot plant at Blockson was constructed in
22 1951, and Building 55 was constructed shortly
23 thereafter, in 1951 and '52. There was a
24 change in ownership during the covered work.
25 Work was transferred from the Blockson Chemical

1 Company to the Olin Mathieson Chemical
2 Corporation in 1955. And in 1958 the contract
3 was amended to specifically limit the
4 production of yellowcake to 50,000 pounds per
5 year. And the finally the contract ended and
6 production ceased in 1962.

7 Okay. One of the first things that we did was
8 to interview former Blockson workers -- we
9 interviewed five workers -- to get their
10 recollections on the details of the work that
11 was performed at the Blockson site. And the
12 five workers were pretty much in agreement that
13 the work crews in Building 55 were small --
14 they consisted of from two to six individuals -
15 - and they were constant. It wasn't one group
16 of workers one day and another group of workers
17 the next day.

18 Now, this is pretty consistent with the pre-
19 project documentation that we have, some
20 correspondence that went back and forth between
21 Blockson Chemical Company and the Atomic Energy
22 Commission, where they anticipated that there
23 would be approximately 18 to 20 workers
24 involved in this work. So you know, there were
25 multiple shifts at Blockson, so we're in the

1 right ball park here.

2 The workers were also pretty consistent in
3 their recollection that the access to Building
4 55 was controlled. You had to have a security
5 clearance to get into Building 55, and there
6 were guards posted to limit access to Building
7 55. So we don't have a lot of people wandering
8 in and out of this building.

9 Now the workers did have -- the workers did
10 have differing recollections of whether or not
11 -- once the yellowcake was produced and it was
12 being loaded into drums, they had differ--
13 differing recollections about whether or not a
14 hopper was used or whether or not that was done
15 by hand. To be claimant favorable, we assume
16 that it was done by hand. That leads to -- in
17 general, to higher exposures, so that's what we
18 -- that's what we consider.

19 There was also unanimity -- consistency, at
20 least -- that the area in Building 55 was
21 washed and -- was washed down regularly. One
22 of the workers recalled that it was done in
23 between shifts.

24 Now none of the workers could recall explicitly
25 a urinalysis program or activities that they

1 recognized as a radiological control program.
2 Okay. So this was one source of information
3 that we consulted, worker interviews. There
4 were other sources. We issued a site profile.
5 The latest revision is Revision 1, and that was
6 issued on June 29th in 2004.
7 We also have urinalysis data. For those of you
8 in the audience, what this is, it's a urine
9 sample that was analyzed for uranium content.
10 We have 122 samples that cover 25 workers. So
11 again, taking into account the recollections of
12 the workers about the number of people who
13 worked in the building, and also the pre-
14 project correspondence, we're again seeing that
15 there were approximately 25 workers involved in
16 this work at the Blockson site.
17 Now there were certainly more workers at the
18 Blockson site. They just weren't involved in
19 this particular mission.
20 We also consulted the site research database,
21 as we always do. This is a database of
22 documents that was generated by the ORAU team,
23 our contractor. You see there the interviews
24 with the former Blockson workers. And finally,
25 we reviewed the material provided by the

1 petitioners themselves.

2 All right, a little bit of explanation about
3 the process here. Once a petition is submitted
4 to NIOSH, NIOSH works with the petitioner to
5 get that petition into a form that will qualify
6 for evaluation. Now I want to be very careful
7 about how I say this. When we say qualify for
8 evaluation, that doesn't have any implication
9 about whether or not the petition will
10 eventually be approved. It's just to get the
11 petition into a form that we can adequately
12 evaluate and come to a decision. And that
13 qualification occurred for SEC number 45, this
14 was the first petition, on March 6th, 2006.
15 Now, we also had a second petition related to
16 the Blockson site, and that is SEC-58, and that
17 qualified on August 9th of 2006. And shortly
18 thereafter these two petitions were merged into
19 one, on August 30th of 2006.

20 Okay. The initial class proposed by the
21 petitioners were all employees at Blockson who
22 worked in Building 55 from 1951 through 1962.
23 NIOSH expanded this class to read "All
24 employees who were monitored, or should have
25 been monitored, and who performed work for the

1 Atomic Energy Commission in Building 55 and the
2 Pilot Plant during the years of 1951 through
3 1962."

4 All right, let's talk a little bit about the
5 bases for the petition. When -- when a
6 petition is submitted, the petitioner presents
7 reasons that they think that NIOSH cannot do
8 dose reconstructions with sufficient accuracy.
9 And these petitions -- 45 and 58, that were
10 then merged -- had these concerns in them.
11 First, the petitioner was concerned that there
12 was no monitoring for worker exposure. They
13 were concerned about the particle size that we
14 were using in our calculations of internal
15 dose. And they were also concerned that the
16 inhalation to ingestion pathway was not
17 considered. And I know that's a bit cryptic,
18 but I've got some more slides on this so I'll
19 cover it then. And finally, they were
20 concerned that NIOSH had not considered uranium
21 daughters.

22 Okay, so let's walk through these. Here's the
23 concern about monitoring data, and the
24 petitioner was concerned that we didn't have
25 exposure records. Well, in fact it is true

1 that we did not have external dosimetry. We
2 haven't located any external dosimetry. So
3 when I say external dosimetry, what I'm talking
4 about is a -- in this time period it would have
5 been a film badge that the workers would wear -
6 - probably on their lapel, that's pretty
7 typical -- to measure the radiation coming from
8 sources outside their body. For instance,
9 standing near a drum of yellowcake. All right?
10 We also have not located any air sampling for
11 this particular facility.
12 We do, however, have bioassays. We have 122
13 bioassay measurements, which cover 25 workers.
14 Now again, we're coming up to the number of
15 workers here. It's pretty consistent that it's
16 between 20 and 25, and we have bioassay
17 measurements for about 20 to 25 individuals.
18 And these bioassay measurements include -- they
19 include -- from the job descriptions, they
20 include the people that we would expect to be
21 at the highest exposure potential. For
22 instance, chemical operators. And they also
23 include people who we would expect to be at
24 lower exposure potential, like supervisors.
25 Okay. The next concern was how NIOSH treated

1 particle size. The petitioner felt that we
2 were using an inappropriate particle size.
3 Our evaluation of this issue -- five
4 micrometers, which is what we use, is the
5 default particle size recommended by the latest
6 lung model issued by the International
7 Commission on Radiological Protection, the
8 ICRP. Their latest model is ICRP-66, and we
9 use the default model -- the default particle
10 size that they recommend. However, it's
11 important to note that even if we chose a
12 different particle size -- one micron, for
13 instance -- it would result in a higher
14 calculated internal dose by about 15 percent,
15 but it's not infinite. So I guess what I'm
16 getting at here is that this is more an issue
17 that speaks to dose reconstruction or Technical
18 Basis Documents rather than SEC. This is a
19 number that, you know, we can discuss, we can
20 go back and forth on, but at the end of the day
21 it can be quantified.

22 Okay, the inhalation-to-ingestion pathway. The
23 concern that the petitioner expressed was that
24 material that is breathed in -- so if you think
25 about working in a dusty environment and you

1 breathe in dust that contains some level of
2 uranium -- it's initially inhaled. But then
3 the lungs start to clear that material in
4 phlegm, and some of that is -- is ingested.
5 It's transferred to the gastrointestinal tract
6 and it's -- and it's ingested. And the
7 petitioner was concerned that we hadn't
8 considered that.

9 In fact, ICRP-66 does include this pathway, so
10 we are considering this. And we are also
11 considering direct ingestion. Dust might
12 settle out on your hands and you rub your mouth
13 and swallow that. That's direct ingestion. We
14 also are considering that, as well.

15 All right, uranium daughters. The petition
16 expressed the concern that we were not
17 considering the beta-emitting daughters of
18 uranium; that is the thorium-234 and
19 protactinium-234(m). In fact, our revision of
20 the site profile does address this progeny's
21 in-growth and those doses from those
22 radionuclides are considered.

23 Okay, so NIOSH's evaluation report. When a
24 petition is qualified, NIOSH is obligated to
25 consider the bases in the petition and then

1 issue an evaluation report that details our
2 findings on this. And we issued the evaluation
3 report for the Blockson petition on September
4 1st of this year.

5 And I would also like to talk a little bit
6 about dose reconstructions, and our legal
7 representative wanted me to stress that on the
8 back table there are some example --
9 hypothetical dose reconstructions. Those are
10 not meant to resemble in any way any
11 individual's real dose reconstruction. These
12 are examples that -- that we came up with just
13 to demonstrate to the Board how we do dose
14 reconstructions. So don't wonder if -- if one
15 of the examples is yours. It's not, I assure
16 you. And as I mentioned, those are on the --
17 on the back table for -- for your review.
18 We have three dose reconstructions --
19 hypothetical dose reconstructions that we've
20 put in the back. I think one is for a skin
21 cancer, one is for a lung cancer, one is for a
22 colon cancer. We felt that this was perhaps
23 representative of the types of dose
24 reconstructions that we are doing at the
25 Blockson site. And let me go into a little bit

1 more detail about how we are doing those.
2 First of all, the external dose. Recall that I
3 told you that we don't have external dosimetry,
4 so what we have done -- based on the production
5 numbers, we know how much uranium was produced
6 at Blockson. We have bounded the external dose
7 that might be expected in this type of
8 activity. First of all, we have assumed that a
9 worker is working in proximity to -- to aged
10 yellowcake.
11 Now let me tell you why that's important.
12 Fresh yellowcake gives off a very minimal
13 amount of radiation, so the external dose from
14 fresh yellowcake is pretty minimal. As that
15 material gets older, the daughters grow in and
16 the dose rate goes up. So if you think for a
17 minute about the process at Blockson, Blockson
18 was producing fresh yellowcake, and as it was
19 produced it was drummed and shipped off-site.
20 So really when the workers were in close
21 proximity, doing that hands-on work with the
22 yellowcake, it was young, freshly-produced
23 yellowcake. The external dose from that
24 yellowcake would have been minimal. However,
25 to be claimant favorable, to bound the external

1 doses, we assume that it was aged and that the
2 workers spent -- Tom Tomes, my colleague, is
3 here to help me out -- I think it was eight
4 hours a day one day a week, and this is based
5 on the production numbers, that was the
6 geometric mean that we assumed. We also -- we
7 assigned a distribution here, and the high
8 value -- Tom, help me out -- was...

9 **MR. TOMES:** Forty hours per week.

10 **DR. ULSH:** -- 40 hours per week, standing one
11 foot from a drum of yellowcake.

12 Now, we're not representing that this is
13 realistic of what the workers might have been
14 exposed to, but we're representing that this is
15 a bounding estimate of the external dose of
16 what the workers might have been exposed to.
17 And then for the internal dose, those are based
18 on those 122 bioassay measurements that we have
19 for the 25 workers. We generate a coworker
20 distribution that we use to estimate internal
21 dose for the people who worked in Building 55.
22 And finally radon. We are considering radon,
23 and I know it's a topic of concern because we
24 have used radon concentrations -- first of all,
25 there are no measured concentrations of radon

1 during the operational period for Blockson. If
2 there were, we would have used them. However,
3 (unintelligible) concentrations from facilities
4 like Blockson in Florida.

5 Now, you might ask -- logically -- what does a
6 facility in Florida have anything to do -- how
7 can we apply those data across sites. Well,
8 remember I told you that the material that
9 Blockson was working with, where it came from.
10 It came from Florida. And so the mills that
11 were considered in Florida used the same
12 material that the Blockson site used, and the
13 operations were similar. So we have some
14 confidence that the radon estimates that we
15 have used are applicable to the Blockson site.
16 And also recall that in the Blockson operation
17 the material that generated the radon didn't
18 even go to Building 55. However, NIOSH
19 couldn't say that, when that material was
20 shipped to other places on the Blockson site,
21 some of that material could have dispersed into
22 Building 55. So we simply conducted a bounding
23 estimate. We said well, it can't be higher
24 than if all that radon-generating material was
25 in Building 55 itself. So that's, in effect,

1 what we assumed. All that material goes into
2 55, generates radon, and that -- that's how we
3 calculated the radon dose that -- that we
4 applied in our dose reconstructions.

5 Okay, let me give you the status on the
6 Blockson claims. Now, there is always some
7 confusion when we present numbers like this
8 because the Department of Labor has a certain
9 set of numbers and that reflects all of the
10 claims that are submitted to the Department of
11 Labor. Now a subset of those are referred to
12 NIOSH for dose reconstruction, and those are
13 the ones that had qualified employment or a
14 qualified condition, so don't expect that
15 you'll hear the same numbers from the
16 Department of Labor that you'll hear from us.
17 I'm only speaking of the ones that -- that DOL,
18 Department of Labor, has referred to us for
19 dose reconstruction, and there are 113 of those
20 cases that have been sent to us. We have
21 completed dose reconstructions and returned
22 them back to DOL -- 93 of those.

23 Tom, I think -- we talked on the way up here,
24 of the remainder of the 93, we've completed
25 them and they're in the claimants' hands; is

1 that correct?

2 **MR. TOMES:** Except for one.

3 **DR. ULSH:** Except for one. So that's the
4 difference that you see there.

5 Okay. As is typical in the SEC process, we
6 have a two-pronged test. Those of us around
7 the table have seen this before. The first
8 question that NIOSH is -- has to ask is, number
9 one, is it feasible for NIOSH to estimate the
10 level of radiation doses that people in this
11 class might have been exposed to with
12 sufficient accuracy. And if the answer to that
13 question is yes (sic), then we are then
14 obligated to go on and consider is there a
15 reasonable likelihood that the health of the
16 people in this class could have been
17 endangered. But you only have to go to number
18 two if the answer to number one is yes (sic).
19 The conclusion of our evaluation is that the
20 information that we have available -- the
21 process records, the urinalysis data, the
22 recollections of the workers that we talked to
23 and information that we have on the source term
24 -- are sufficient for us to do dose
25 reconstructions of sufficient accuracy.

1 Okay, so here are the types of -- the types of
2 exposure that we consider in a dose
3 reconstruction, and we have concluded that we
4 can do dose reconstructions of sufficient
5 accuracy on the internal side, material that
6 gets inside your body through ingestion or
7 inhalation, for uranium and its daughters and
8 for radon. And we have also concluded that we
9 can estimate the external doses, both from the
10 beta/gamma that the workers might have been
11 exposed to and occupational medical X-ray.
12 So here's the -- I think it's the last slide --
13 that summarizes our position. And that is that
14 for the time period in question, January 1st,
15 1951 through the end of 1962, we have concluded
16 that it is feasible for us to do dose
17 reconstructions of sufficient accuracy.
18 Okay, that is the end of my presentation. I'd
19 be happy to entertain questions.

20 **DR. ZIEMER:** Before we go to the question
21 period, we'll have an opportunity to hear from
22 the petitioners.

23 Oh, Mr. Kellogg's representative is here, go
24 ahead.

25 **MR. LAPINE:** Yes, representing Mr. Kellogg --

1 thank you, Mr. Ulsh, thank you, ladies and
2 gentlemen of the Board. As part of my
3 presentation in response to this, I want to
4 address two factors. Number one is the general
5 flawed nature of much of this. This is based
6 off of interviews of five workers -- five. And
7 statements are made that we know how much was
8 produced at Blockson. No, you don't. You're
9 basing this off of a maximum that 50,000 pounds
10 were produced a year and that's what the
11 contract said. Other reports, based -- such as
12 the one that USA Today based their report off
13 of indicate that 2 million pounds came out of
14 there during that two years. These are all
15 based off of completely unsubstantiated claims.
16 That being said, I look forward to the moment,
17 and I wish each and every worker and their
18 family had the opportunity to speak. It's easy
19 to get lost in the dose reconstructions and
20 forget that these have impacted just about
21 every single family of individuals who worked
22 there. Every single one has suffered. It's
23 that simple.

24 As part of this, I would like to defer briefly
25 to Ms. Marcoski and Mr. Stephan. Ms. Marcoski

1 will address some weaknesses in the dose
2 reconstruction and Mr. Stephan will suggest a
3 plan for future reference. Thank you, ladies
4 and gentlemen.

5 **THE COURT REPORTER:** Could I get your name,
6 please?

7 **MR. LAPINE:** Michael Lapine, L-a-p-i-n-e.
8 Thank you.

9 **MS. MARCOSKI:** I guess I'll -- I'll work
10 backwards from some comments that I scribbled
11 down. With the external dosage with beta/gamma
12 rays, there was no dosimetry badging. You're
13 making this on a assumption of a Florida
14 phosphate-producing plant that has totally
15 different geographic situation. It's outdoor
16 Florida. Their windows are probably open.
17 Radon, you know, can be dispersed when it's
18 open to air. Blockson, you're looking at a
19 place that functions in winter months where
20 you're looking at more closed-in areas, so I
21 would dispute that having adequate external
22 dosing.

23 When you do such a large feas-- feasibility of
24 dose reconstruction, there has to be some
25 percentage of error. I know you've worked very

1 hard on this and put together things to the
2 best of your ability. But when you have so
3 many assumptions, what type of percentage of
4 error are we looking at? Is it ten percent?
5 It goes with mo-- most medical -- mathematical
6 calculations and basic statistics.

7 Back to the phosphate rock, I was trying to
8 make the analogy of an egg yesterday. I don't
9 think you could just defer to the operations
10 that were in Building 55 alone. A certain
11 percentage of that phosphate rock that was
12 brought from the Florida facility, even though
13 not all of the chemical processes occurred in
14 Building 55, it still -- part of it had to
15 occur so that uranium could be extracted for
16 atomic weapons. I don't believe you could just
17 segregate out Building 55 alone and look at
18 that part.

19 I believe higher calculation can be given to
20 radon and radon exposure. In talking to Mr.
21 Miller yesterday, a 95th percentile has been
22 given to most of this in your calculations. I
23 understand the radon was given at the 50th
24 percentile, and I'm not sure why that
25 calculation was given such a low rating based

1 on all the other mathematical formulas were
2 given the 95th percentile. And it does make a
3 difference in the lung cases. There's a direct
4 correlation of radon and lung cancer.

5 I guess I did (unintelligible) some other
6 situations with petitioning. With Allied
7 Health there was a SEC petition that looked
8 like it was passing because they didn't have
9 adequate monitoring data. I guess I would
10 question some of the assumptions and wondering
11 if they are adequate based on such a small
12 representative of five workers and there were
13 113. I do have a seniority list. The plant
14 only employed somewhere between 200 and 300
15 people. That isn't a large plant.

16 I guess that's all unless there are any other
17 comments.

18 **DR. ZIEMER:** Thank you.

19 **MR. LAPINE:** Thank you, Ms. Marcoski, and next
20 I am going to ask Mr. Robert Stephan, the
21 regional director for Senator Obama's office,
22 to address the Board.

23 **MR. STEPHAN:** That's Robert, last name is S-t-
24 e-p-h-a-n. Thank you guys for the opportunity
25 to let the Senator speak this morning. He

1 wanted me to follow up on a few of the points
2 that he made in his speech. Number one was the
3 request to postpone this vote until February.
4 He wanted to see if you guys were willing to do
5 that. I don't know if that is an answer you
6 can give today or not.

7 The other -- the other issue is that he -- he
8 wants to make sure that specifically it is on
9 the record that he requested that SC&A be
10 referred this issue so that they can, you know,
11 just take another look and give a second
12 opinion on the Blockson process, which we think
13 is reasonable and I think is in line with your,
14 you know, prior activity to -- to sometimes go
15 slow if need be and make sure you get it right.

16 The third issue is that I want to make sure
17 that we get the class definition right. NIOSH
18 was very generous this week and they gave a
19 briefing to our office, and at that time and in
20 subsequent e-mails with the NIOSH staff, it's
21 our understanding that all employees at
22 Blockson are covered in the petition. However,
23 the -- the petition as it is written in the
24 evaluation report, and as it was presented
25 earlier -- I think we have a problem of words.

1 The petition says the Pilot building, Pilot
2 facility and Building 55, and the way many
3 people read that, including our office, is that
4 that does not include all the workers. So I'm
5 just wondering if we could touch base on that.
6 I know we talked this week and -- and Mr.
7 Elliott, and -- and it was a little bit
8 different in our discussion and the follow-up
9 and then what is on there, so I'm just
10 wondering, maybe you guys can clarify that for
11 us.

12 **UNIDENTIFIED:** (Unintelligible)

13 **MR. STEPHAN:** Okay. Thank you. And then the
14 last point is that it -- it is -- in the
15 Senator's comments, which I'm not sure that he
16 made totally clear, the policy that he was
17 requesting be reviewed is the policy of using
18 coworker data. We know that's a big issue. We
19 know it's very difficult, you know, for you
20 guys to move forward if you don't consider
21 coworker data. But from the Senator's point of
22 view, he -- he -- he is asking, in a big
23 picture sense, not just at Blockson, that the
24 Blockson coworker data be reviewed, but that
25 the policy of using coworker data throughout

1 the entire implementation of the Act is
2 reviewed. So we just want to make sure we have
3 that on the record. And certainly if you guys
4 are willing to commit now to getting SC&A
5 involved, that would be good news that we can
6 report back to the Senator. Thank you.

7 **DR. ZIEMER:** Thank you, Robert. We can open
8 the floor -- any other petitioners to speak, on
9 the phone or here?

10 **MS. PINCHETTI:** Yeah, this is Kathy Pinchetti.
11 I'm a petitioner for number 58 -- am I getting
12 feedback?

13 **DR. WADE:** Could I ask you -- just let me
14 interrupt for a minute. Could you just speak
15 right into the -- the -- the handset and speak
16 as loud as you can for us, please.

17 **MS. PINCHETTI:** Okay. Is that better?

18 **DR. ZIEMER:** Yes.

19 **DR. WADE:** Yes.

20 **DR. ZIEMER:** Repeat your name, please.

21 **MS. PINCHETTI:** Kathy Pinchetti, P-i-n-c-h-e-t-
22 t-i.

23 **DR. ZIEMER:** Yes.

24 **MS. PINCHETTI:** I am the daughter of William
25 Bell, who's there in the audience with my

1 sister. And initially I filed the SEC
2 specifically with my father in mind because
3 that was the only information I had was his
4 direct report. And then it became included to
5 include all the workers in Building 55. And it
6 originally came out of my filing with EEOIC and
7 that application was denied because he didn't
8 have one of the specified cancers. I also
9 applied with RECA, Radiation Exposure
10 Compensation Act. They also denied it because
11 they felt that, you know, he didn't meet one of
12 the qualifying illnesses. But then there was
13 information on the internet, which is where I
14 got a lot of my information on how to go about
15 applying for him, and it said that there's no
16 requirement that the members of the class even
17 have yet to be diagnosed with cancer. So then
18 I started the SEC petition and then after I
19 submitted it, then it was merged with another
20 one that I think included people other than
21 those that were specifically identified as
22 being maybe those 25 workers that had the
23 urinalysis done, that showed, you know, how
24 they were sickened. But my father was actually
25 in a VA hospital for three weeks during the

1 time he was working in Building 55 and he had
2 symptoms of vomiting, he lost 35 pounds in a
3 month. He had a rash on his hands, all sorts
4 of problems, and they were giving him cancer
5 treatments. I believe it was Compamine, that's
6 a cancer-treating drug; also atropine, which is
7 for nerve poisoning or nerve agents and
8 poisoning, and also phenobarbital, and that's
9 pretty heavy-duty medication. So he was really
10 sick and I think -- all in all I think he was
11 off work maybe six weeks, and so that was my
12 motivation for filing the application.

13 I am impressed with the summary and just in
14 general how people are able to reconstruct
15 things like crash sites where you don't have to
16 actually have information from back then. I
17 don't think in the '50s they -- they were very
18 sophisticated in how they monitored things or -
19 - or what sort of rules they would -- they
20 would implement, but my dad worked more than 40
21 hours a week. There were a lot of times he
22 worked double shifts and I think that was
23 pretty typical of the bunch that was in
24 Building 55. I mean if there was only like 16
25 to 25 people that were allowed in there, and

1 they had to cover three shifts, there was a lot
2 of doubles. So I don't know if he was alone in
3 that, but I know it for a fact that he always
4 worked a lot of doubles, so his exposure might
5 have been even higher.

6 What else did I want to say? Other than about
7 particle size or daughters or any of that stuff
8 about the exposure, but I think -- I do believe
9 that that does need to be clarified, who is
10 covered by this petition. Is it just the 16 to
11 25 people in Building 55 or anybody that was
12 employed by Blockson during that ten-year
13 period?

14 **DR. ZIEMER:** Okay. Thank you very much,
15 Kathleen.

16 **MS. PINCHETTI:** All right. Thank you.

17 **DR. ZIEMER:** On behalf of the petitioners?
18 I guess it'll be up to the petitioners. I'll
19 allow it if it's okay with the petitioners. I
20 think she's speaking on behalf of the
21 claimants. Yes.

22 **UNIDENTIFIED:** Okay. Thank you. I don't know
23 if you'll be able to (unintelligible)
24 microphone.

25 **DR. ZIEMER:** Give us your name.

1 **MS. PIERCE:** My name is Lois Pierce. My father
2 was Rudolph Dernalz*. He was probably the
3 number fifth in play on a list for Blockson
4 Chemical. He had about 37 years there. Me and
5 my sisters had applied for this compensation
6 and we recently got a second dose
7 reconstruction. And the first one was -- that
8 was sent was like October 2003. They had
9 listed two cancers, which we had talked about
10 through papers we had from the doctors that we
11 could get our hands on. When the second of the
12 recent dose reconstruction came through,
13 November 9th of this year, it eliminated one of
14 the cancers. So my -- we are doubtful why
15 wasn't all the information forwarded. It was
16 both by NIOSH and one of the cancers is listed
17 on the Act of 2000, the year 2000, the
18 Occupational Illness Program put out by the
19 Department of Energy, and why it was changed,
20 we have no idea. So we feel that the dose
21 reconstruction is not true to what it should be
22 because they eliminated a cancer. They only
23 put down one cancer and I have paperwork where
24 it was two back in 2003.
25 My dad worked with the chemists, and he was

1 called out during the night. He was in
2 Building 55. My brother-in-law even signed a
3 paper that was like an affidavit or something
4 saying he knew my dad was in Building 55. He
5 wore goggles and gloves, we knew that. And all
6 his work clothes came home, which my mom
7 washed, and he did shower -- that was the only
8 building with a shower was Building 55. We
9 knew there was security. My father didn't talk
10 about what he did. He was very respectful of
11 his bosses because he cared a lot about them
12 and being one of the first employees at
13 Blockson and number five on a list of, you
14 know, how many, I assume he's probably in that
15 25 urinalysis but I'm not sure.
16 Now my sister did tell me there was a thing
17 about some paperwork we got where they said
18 they did X-rays of their chests. We never
19 remembered our dad going for an X-ray of his
20 chest, and he would have done that, I assume,
21 away from Blockson because I don't think they
22 had the facility to do anything like that.
23 But that's what I wanted to say to you. I
24 think they need to go back -- with our claim, I
25 don't know what they did with others, but 2003

1 it was two cancers; now it's one, and it's the
2 same department, NIOSH, and why they changed
3 it, I have no idea. And I assume I have to
4 make a phone call to somebody.

5 **DR. ZIEMER:** There are NIOSH people here that
6 will help you address this particular case yet
7 while you're here, so --

8 **MS. PIERCE:** Okay, thank you.

9 **DR. ZIEMER:** Thank you very much. We can open
10 the floor for questions, and I'd like to start.
11 I'd like to get some clarity on a couple of
12 items. I think that, Brant, you talked about
13 the inventory there and I -- I think then we
14 heard from Michael about -- I think it was USA
15 Today story that perhaps had a different -- and
16 -- and I'm wondering if we know the source of
17 the USA Today's information versus NIOSH's --
18 clearly like an order of magnitude.

19 Now you realize that many of us at this table
20 tend not to trust what we read in the media all
21 the time, although sometimes they have better
22 sources of information than we do. So do -- do
23 you have some notion that would help us clarify
24 that issue of that inventory? It seems to be
25 pretty wide apart.

1 **MR. LAPINE:** (Off microphone) I don't know the
2 source of that article. I know that
3 (unintelligible) USA Today report was the
4 catalyst that (unintelligible) brought to me
5 (unintelligible) --

6 **DR. ZIEMER:** Yeah.

7 **MR. LAPINE:** -- (unintelligible) --

8 **DR. ZIEMER:** Right.

9 **MR. LAPINE:** -- in that (unintelligible)
10 Blockson (unintelligible) report. It did
11 suggest (unintelligible) reports of
12 (unintelligible) orders and the like. It was
13 estimating 2 million were taken out in the two
14 years -- or the ten years --

15 **DR. ZIEMER:** Uh-huh.

16 **MR. LAPINE:** -- (unintelligible) the uranium
17 extracted.

18 **DR. ZIEMER:** Might be helpful if we could track
19 that down, or at least get some clarity.

20 **MS. MUNN:** I'd like to know the date of that
21 USA Today.

22 **DR. ZIEMER:** Yeah, and maybe we can find out
23 when that report was and track it down. But
24 let's hear from Dan first.

25 **DR. MCKEEL:** The USA Today series was reported

1 by Peter Eisler, that's E-i-s-l-e-r, and my
2 recollection of that series -- I'm trying to
3 think of the year, I'm sor-- I don't want to
4 say something that's wrong.

5 **DR. ZIEMER:** Do you have any idea, Dan, what
6 his source of information was?

7 **DR. MCKEEL:** Well, he -- he compiled -- I
8 remember in the lead to that series -- he said
9 100,000 primary documents which he put into a
10 database. And about two years ago actually I
11 contacted USA Today to see if he was -- would
12 be willing to share any of that information.
13 Now Peter -- I saw a story from him a few
14 months ago. Actually I saw a story from him
15 about the Hostettler subcommittee hearings, so
16 he's still active, alive, well, and I would
17 imagine that database has perhaps grown. But
18 that's a major resource for this program. I
19 don't know, I -- I understood that they went to
20 -- in that story they said they went to
21 national records, so they did a data -- a
22 massive data capture effort from the same kind
23 of sources that NIOSH and all of us have
24 available and -- you know, but specifically for
25 Blockson where they came up with that large

1 number. But there may be documentation like
2 that that could be sought and retrieved.

3 **DR. ZIEMER:** Thank you.

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

5 **DR. ZIEMER:** Brant, do you or Larry have any
6 notion or can you help us understand that
7 discrepancy?

8 **MR. TOMES:** I'm Tom Tomes from NIOSH. We do
9 have some source of good records for production
10 quantities at Blockson, and they were in August
11 through December of 1955. We located some
12 monthly reports of production out of the AEC
13 offices, and they give details of monthly
14 reports that was produced every -- every single
15 month that month (sic), and a total of the --
16 the total production from Blockson had produced
17 through December, 1955 from the start of the
18 contract, and that is in the Technical Basis
19 Document. However, we don't have any -- any
20 specific details after 1955.

21 **DR. ZIEMER:** Thank you.

22 **DR. ULSH:** Except -- I don't know -- am I on?
23 Okay. We do have where the contract was
24 amended to place a limit on the production. I
25 think that occurred in 1958, and the limit was

1 -- 58,000 pounds per year?

2 **UNIDENTIFIED:** Fifty thousand.

3 **DR. ULSH:** Fifty thousand, 50,000 pounds per
4 year.

5 **DR. ZIEMER:** Thank you. I'd like to -- oh,
6 Larry, you have an additional comment on this?

7 **MR. ELLIOTT:** I think it's very easy to get
8 confused when we start talking about numbers.
9 We would need to see the references that --
10 that are being used here. What we do know
11 about Blockson is that they were in a
12 commercial process of -- of working up
13 limestone or phosphate and rock, and the AEC
14 come to them and said you're doing this
15 commercial base process. We would like to take
16 a side stream off of that to understand and
17 determine whether or not uranium can be
18 captured in this side stream process. So I
19 don't know if this is the case, but it could be
20 that the 200,000 pounds per year may be the
21 incoming stone that was being processed. We'd
22 have to look at that. But what we do know is
23 what you've just heard Tom Tomes say. The
24 contractual language that we have been given in
25 the documentation from the Department of Energy

1 and the AEC was that they were seeking 50,000
2 pounds, total, over the course of the contract
3 -- of uranium. So but -- pardon me? Per year,
4 per year.

5 **DR. ZIEMER:** Let me also ask a somewhat related
6 question and I -- it has to do with the issue
7 of Building 55 and the language as to what
8 defines the -- the cohort. What do we know
9 about the restrictions on who could go into
10 Building 55 and whether other people on the
11 site in other operations -- one of the
12 petitioners said he thought -- he was told
13 everyone was covered and --

14 **MR. ELLIOTT:** Well, this -- if your question
15 goes to coverage --

16 **DR. ZIEMER:** Yeah.

17 **MR. ELLIOTT:** -- our understanding of the --
18 the facility definition for coverage is
19 Building 55 or the -- and the Pilot plant.

20 **DR. ZIEMER:** Or anyone who had access to that
21 building?

22 **MR. ELLIOTT:** Anyone who worked at Blockson
23 Chemical -- and my understanding -- and Pete
24 Turcic's here, he might want to opine about how
25 DOL determines eligibility, but it's our

1 understanding at NIOSH that anybody who worked
2 at Blockson Chemical Company can file a claim.
3 Their eligibility's determined on did they work
4 there, not whether they worked in 55 or the
5 Pilot plant --

6 **DR. ZIEMER:** That worked there.

7 **MR. ELLIOTT:** -- but did they work at Blockson,
8 and did they come up with a cancer. If the
9 answer to both of those questions is yes, they
10 are deemed an eligible claimant and sent to us
11 for dose reconstruction.

12 **DR. ZIEMER:** So the Building 55 issue doesn't
13 arise as far as Labor's concerned. Is that
14 what I'm hearing?

15 **MR. TURCIC:** That's correct, Paul. It's --
16 when -- you know, when we look at these things,
17 you know, it starts out as an empirical --
18 looking at what data is available. Early on in
19 the program we found out that there are no
20 records that exist that can put people, you
21 know, in the mainstream versus Building 55, so
22 we put it -- you know, we have a bulletin --
23 basically we made the policy determination that
24 if -- if we confirm employment at Blockston
25 (sic) Chemical, the facility is the entire

1 facility.

2 **DR. ZIEMER:** Okay. So even though it sounds,
3 from what some of the petitioners even said,
4 that there was a sort of a restricted area, you
5 can't determine who actually was kept out or
6 allowed in there.

7 **MR. TURCIC:** That's correct, and that's why,
8 you know, if that language gets in, though --

9 **DR. ZIEMER:** Right.

10 **MR. TURCIC:** -- that, you know, causes
11 confusion.

12 **DR. ZIEMER:** Right. So is it important that
13 the class definition include the mention of
14 Building 55? Apparently not.

15 Okay, thank you. That's helpful. I think I
16 had one other question. Let me defer -- I
17 think Dr. Melius is waiting patiently.

18 **DR. MELIUS:** I always defer to the Chair, I
19 don't --

20 **DR. ZIEMER:** Right.

21 **DR. MELIUS:** My -- my -- I have one question to
22 start with and that's the -- the issue that was
23 brought up by the Senator regarding whether or
24 not there'd been any outreach activities for
25 this site. I guess I was a little surprised to

1 hear that in the five or six years of the
2 program that there had not been any outreach
3 activities or any meetings held here and I
4 guess I'd like clarification on that. I...

5 **DR. ULSH:** Dr. Melius, I can tell you that the
6 one -- one meeting that I attended was a DOL
7 meeting. Pete, wasn't that for residual
8 contamination? I think that was the subject of
9 --

10 **MR. TURCIC:** Early -- early on when the program
11 first started, we did some 85 town hall
12 meetings and we were in Joliet then, and then
13 there was a residual contamination outreach,
14 also. So there's at least two that I'm aware
15 of.

16 **DR. MELIUS:** Yeah, but -- but none specifically
17 by NIOSH in terms of developing their Technical
18 Basis Documents and regarding -- and regarding
19 this Special Exposure Cohort petition?

20 **DR. ULSH:** You're correct, Dr. Melius, that we
21 didn't have an official TBD rollout outreach
22 meeting conducted by NIOSH with Blockson. We
23 did not. What we did have was the interviews
24 with the former workers that informed the SEC
25 petition, but there was no official NIOSH

1 outreach meeting related to the TBD.

2 **DR. MELIUS:** And so that -- that was the
3 interview with the five workers. Correct?

4 **DR. ULSH:** That's correct, Dr. Melius.

5 **DR. ZIEMER:** I remember now my other question.
6 The -- the phosphate rock was already being
7 used, as I understand it, by Blockson for other
8 chemical extractions or --

9 **DR. ULSH:** That is correct, Dr. Ziemer. The
10 primary product of the Blockson site was
11 technical phosphates.

12 **DR. ZIEMER:** Right. And one of the petitioners
13 asked the question about the assignment of --
14 of radon exposures.

15 **DR. ULSH:** Uh-huh.

16 **DR. ZIEMER:** And I'm unclear now -- if you have
17 a -- if you have a claimant -- well, of course
18 if there's an SEC, it becomes a sort of a moot
19 point, except you might have non-- you may have
20 some cancers which are in a category not
21 covered by the SEC. If such a claimant came,
22 what do we do about, for example, radon
23 exposure assignments? Are -- you can -- you
24 said you can do medical?

25 **DR. ULSH:** Well, it's -- it's NIOSH's position

1 that we can reconstruct all the -- all of the
2 doses, and it's really not a moot point --

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

4 **DR. ULSH:** -- in terms of if the -- if the
5 Board chose to recommend an SEC class --

6 **DR. ZIEMER:** All right, but if -- if that were
7 the case, but -- all right, take -- take a
8 regular -- assume there's no SEC, then --

9 **DR. ULSH:** Okay.

10 **DR. ZIEMER:** -- what do -- what do we do about
11 the radon part for any individual?

12 **DR. ULSH:** That is included in all the dose
13 reconstructions that we do at Blockson, based
14 on the radon values that were measured in
15 similar facilities using similar source
16 material, and that is included in the dose
17 reconstruction --

18 **DR. ZIEMER:** Okay.

19 **DR. ULSH:** -- for -- for lung cancers.

20 **DR. ZIEMER:** Okay. Are these radon levels
21 simply based on buildings of similar size that
22 were handling Florida phosphates or -- what's
23 the basis for the radon calculation.

24 **DR. ULSH:** I'm going to let Tom answer that
25 one.

1 **MR. TOMES:** There was a Technical Information
2 Bulletin produced by ORAU that discussed the
3 exposures from radon -- radium and radon in
4 phosphate facilities, and that was an
5 evaluation that included multiple results of
6 different studies published by Florida and
7 other studies, and it's a compilation of
8 various results -- indoor measurements of
9 chemical processing plants (unintelligible)
10 general data used, and the -- and the
11 recommendations from that OTIB was what we
12 adopted for the operational period at Blockson.

13 **DR. ZIEMER:** Thank you. Other comments or
14 questions?

15 **PETITIONER:** I have one question. This is
16 Petitioner (unintelligible) --

17 **DR. ZIEMER:** And the petitioner...

18 **PETITIONER:** -- 58.

19 **DR. ZIEMER:** Speak -- speak in to the --

20 **PETITIONER:** Okay. Kathy Pinchetti.

21 **DR. ZIEMER:** Yes, Katherine.

22 **MS. PINCHETTI:** Okay. You had said that when
23 you were clarifying the definition, you defined
24 it as people who worked there and come up with
25 a cancer, so that sounds kind of like the EEOIC

1 requirement that you have one of the named
2 cancers in order to qualify for compensation.
3 But under SEC it says a petition is prepared
4 representing a class of employees whose members
5 have or have not filed claims with Department
6 of Labor under the Act. There's no requirement
7 that the members of the class even have yet to
8 be diagnosed with a cancer. I just wanted to
9 clarify if the people that qualify for
10 compensation still have to have one of the
11 identified cancers.

12 **DR. ZIEMER:** Yes, and Larry Elliott will speak
13 to that, but there are some so-called
14 presumptive cancers that would be a condition
15 of the compensation. Larry.

16 **MR. ELLIOTT:** The Special Exposure Cohort and
17 the classes that are represented in the Special
18 Exposure Cohort represent all workers who find
19 themselves having time spent in that class
20 definition. If they -- whether they have
21 cancer or not. If they have cancer, then it --
22 if the cancer is one of 22, then they are
23 presumed -- the cancer's presumed to have been
24 caused by their exposure during that time frame
25 at that particular work facility. So yes, you

1 are correct, ma'am. The class would represent
2 those individuals who have and those who do not
3 have cancer at this point in time, if there was
4 a class to be added. NIOSH is --

5 **DR. ZIEMER:** But to compensate, they have to
6 have the cancer.

7 **MR. ELLIOTT:** Yes, to be compensated, you have
8 to, unfortunately, have acquired cancer. Let
9 me -- let me make sure that there's -- I want
10 to make a point of clarification here.

11 NIOSH is here today presenting a report on an
12 evaluation of this petition, stating that we
13 feel we have the ability to reconstruct dose
14 for the various types of radiation exposure
15 that were encountered by the workers at
16 Blockson Chemical. If the Board were to say,
17 or Board were to take an action to recommend
18 that a class be established for this particular
19 facility, then it's absolutely correct that the
20 definition needs to be carefully considered.
21 Our definition for this class, as we -- as
22 Brant has presented it this afternoon, under
23 the context that we feel we can reconstruct
24 dose, includes all people who worked at
25 Blockson Chemical for those years. But if you

1 go forward with a recommendation to add a
2 class, what I think Mr. Turcic was alluding to
3 earlier is you don't want to include Building
4 55 and the Pilot plant in that class definition
5 for recommendation. You only want to say
6 Blockson Chemical. If you -- if you narrow it
7 just to Building 55 and Pilot plant, which we
8 have done saying we can reconstruct all dose,
9 because that's the covered facility here, if
10 you narrow it for a recommendation to add a
11 class and you include those words, Building 55
12 and the Pilot plant, you've also narrowed the
13 eligibility. Okay? I just want to make sure
14 that that's on the record. I think that goes
15 to Mr. Stephan's question and Senator Obama's
16 concern.

17 **DR. ZIEMER:** Thank you, Larry. That's helpful.
18 Also could -- Larry, could -- or maybe Brant
19 can tell me, on the issue of the amount of
20 inventory that was processed, will that -- if --
21 -- if in fact the -- the greater number were the
22 one, does that have any impact on your ability
23 to reconstruct dose? It doesn't appear to me
24 that it would, but...

25 **MR. TOMES:** I believe we'd have to take another

1 look at the numbers, what we'd have to do, you
2 know, far -- far as the -- and -- and to re-
3 evaluate it. I --

4 **DR. ZIEMER:** Well, to --

5 **MR. TOMES:** -- (unintelligible) source term
6 (unintelligible) --

7 **DR. ZIEMER:** -- what extent does the knowledge
8 of that inventory play into the -- into the
9 reconstruction, as you see it now?

10 **MR. TOMES:** Well, we just need to look at --

11 **DR. ZIEMER:** Is that --

12 **MR. TOMES:** Well, ba-- basically what we're
13 looking at right now is producing a sma-- a few
14 num-- a several drums, you know, of -- of
15 material, and -- and we just have to consider
16 is our evaluation satisfactory for more --
17 bigger source term and --

18 **DR. ZIEMER:** So the source term does enter into
19 the calculation, so that would be an important
20 piece of information.

21 **DR. ULSH:** Dr. Ziemer, perhaps I could add to
22 that. It probably would not affect the way
23 that we calculate internal doses because that's
24 based on the urinalyses. But where it might
25 have an impact would be on the way that we

1 calculate external doses. Then it would be a
2 scaling factor. If we find out that it's four
3 times what we've estimated, then we -- we would
4 perhaps, I don't know -- I'm going a little
5 further than I should, perhaps -- that -- that
6 might have --

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

8 **DR. ULSH:** Okay, then I'll stop.

9 **DR. ZIEMER:** Okay. Other comments or
10 questions?

11 **DR. WADE:** Mr. Stephan has.

12 **DR. ZIEMER:** Mr. Stephan has an additional
13 comment.

14 **MR. STEPHAN:** Thank you. I want to thank you,
15 Mr. Elliott, for the clarification. So I think
16 we are clear now for the workers. What is not
17 happening today is there will not be a vote on
18 SEC petition for Blockson for only Building 55
19 and the Pilot facility; that that is not
20 happening here today. Is that correct?

21 **DR. ZIEMER:** Actually the Board hasn't
22 determined that there will be a vote or not be
23 a vote.

24 **MR. STEPHAN:** Okay.

25 **DR. ZIEMER:** All that he has done is clarify

1 what happens --

2 **MR. STEPHAN:** Okay.

3 **DR. ZIEMER:** -- in each case.

4 **MR. STEPHAN:** Okay.

5 **DR. ZIEMER:** That is, if -- if the NIOSH
6 recommendation, which says we can reconstruct
7 dose and therefore we don't need an SEC -- is
8 what it says --

9 **MR. STEPHAN:** Uh-huh, okay.

10 **DR. ZIEMER:** -- if -- if that were followed,
11 then the -- the point about Building 55 is
12 basically a moot point.

13 **MR. STEPHAN:** Okay.

14 **DR. ZIEMER:** If we were to recommend that there
15 be an SEC --

16 **MR. STEPHAN:** Uh-huh.

17 **DR. ZIEMER:** -- then it covers anyone at
18 Blockson and you don't have to specify Building
19 55.

20 **MR. STEPHAN:** Okay.

21 **DR. ZIEMER:** That would be my understanding of
22 it.

23 **MR. STEPHAN:** Okay.

24 **MR. ELLIOTT:** Let me say it one more time a
25 different way. If we were coming to you today

1 and presenting a recommendation to add a class,
2 we would not have presented the class
3 definition that you see today. We would have
4 presented a class definition that said all
5 employees who worked at Blo-- who were
6 monitored, or should have been monitored, at
7 Blockson Chemical. We would not have mentioned
8 Building 55 or the Pilot.

9 **DR. ZIEMER:** This definition grew out of the
10 original petition, I presume, rather than --
11 'cause you would have -- you would have amended
12 it somewhere along the line.

13 **MR. ELLIOTT:** The definition that we presented
14 to you today in our evaluation for this
15 particular petition speaks to all workers who
16 came to Blockson to work. Okay? And it speaks
17 to the covered part of that facility, and we're
18 saying we feel we can reconstruct dose.

19 If we were coming to you and saying we don't
20 think we can reconstruct all the dose, we would
21 have presented to you a -- a different
22 definition of the class that would not have
23 spoken to Building 55 or the Pilot plant.

24 **DR. ZIEMER:** Thank you.

25 **MR. STEPHAN:** Thank you, Mr. Elliott. The --

1 the main point that I wanted to underscore,
2 which was brought up about the worker outreach
3 meeting, the -- the worker outreach meeting
4 that Senator Obama is looking for for Blockson
5 is -- is a worker outreach meeting similar to
6 what I believe NIOSH did -- I know Stu was
7 there and Laurie Ishak, I believe; numerous
8 NIOSH staff, is that right? -- when they came
9 and did a worker outreach meeting for General
10 Steel Industries in the southern part of the
11 state, and Dow Chemical. Those were all
12 affidavits on the record, and so I'm just
13 trying to make sure that I'm differentiating,
14 Mr. Turcic, that that is different than the
15 town hall meetings. And so I think it's fair
16 to say that with a decision such as this,
17 interviews over the telephone with five
18 workers, you know, is -- as our opinion is,
19 it's not sufficient. But it goes to the issue
20 of confidence. Whatever the decision is that
21 comes about, we'll have more confidence, and
22 you will have more confidence, in the decision
23 if there is some outreach on the record,
24 publicized in the media well in advance where
25 people can come testify, a -- a written report

1 is produced from -- from all the workers. That
2 is a step we would hope would take place. I
3 just want to differentiate between what we're
4 looking for and maybe what has taken place in
5 the past. And I do want to give credit to
6 NIOSH for what they did on the Dow and the GSI
7 site. That was very helpful. Thank you.

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

9 **MR. ELLIOTT:** We can certainly do a worker
10 outreach meeting at Blockson and enter-- and
11 entertain comments and thoughts about the site
12 profile that we have developed. We can present
13 dose reconstruction examples and explain how we
14 do dose reconstruction. But we -- we -- it's
15 not that we don't want to do it. There are
16 more than 300 sites covered under this program
17 and unfortunately we've not been able to get
18 around to all of them, and my apologies for
19 that. But yes, if you want us to, we'll --
20 we'll schedule a worker outreach meeting for
21 Blockson in the very, very near future.

22 **DR. ZIEMER:** Wanda.

23 **MS. MUNN:** Perhaps the comment should be made -
24 - I'm not sure that everyone who hears what's
25 transpiring here understands that any

1 individual who has any claim at all has been
2 interviewed. Not perhaps face to face, but
3 they've certainly been interviewed, more than
4 one time, by telephone. Is that not correct,
5 Dr. Elliott -- Mr. Elliott?

6 **MR. ELLIOTT:** It's Mister --

7 **MS. MUNN:** Yeah --

8 **MR. ELLIOTT:** -- thank you.

9 **MS. MUNN:** -- I'll keep trying.

10 **MR. ELLIOTT:** I have aspirations of being a
11 doctor sometime, but I don't know if I'll ever
12 get out of my childhood to get there. But
13 anyway, yes, you're absolutely correct and --
14 and I don't speak to that because there's a
15 difficulty there with the survivors. You know,
16 that -- they're put at a disadvantage through
17 the interview process, but everyone who files a
18 claim gets an interview at the start of the
19 process. We hope to understand from that
20 interview what the Energy employee's work
21 experience was like, what did they encounter,
22 what did they do. We use it to try to develop
23 a little bit of a work history about that
24 person that the health physicist who's doing
25 the dose reconstruction can use.

1 I met with a lady yesterday afternoon who
2 provided public comment, and they're concerned
3 that their -- their father was a -- a
4 maintenance worker who, you know, was heavily
5 involved in all the maintenance activities of
6 Building 55, the Pilot plant, lived there
7 almost -- you know, 24/7 kind of a thing -- and
8 did things in his usual routines that probably
9 gave him higher exposures. We want to capture
10 that kind of information if we can in an
11 interview and see it applied and addressed in
12 our dose reconstructions. I'm not going to
13 tell you it happens like that all the time, but
14 that's what we're striving for.

15 So there's also a closeout interview that
16 occurs once the dose reconstruction report has
17 been drafted and delivered to the claimants,
18 and we ask again at that point in time do you
19 have any additional information that would help
20 us do a better job of estimating the exposure
21 for your -- for this particular individual
22 worker. So yes, there are these activities,
23 but I would not -- I would say that -- that
24 they're a best effort, a best attempt, but
25 worker outreach does afford a different type of

1 collection of information because it allows
2 people to bounce their thoughts off of each
3 other and say don't you recall what happened
4 there? Oh, yeah. In a survivor situation you
5 don't get that kind of a dynamic, and if you're
6 interviewing the Energy employee you have that
7 also lost there. You don't have that dynamic.

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

9 **DR. MELIUS:** Yeah, I -- actually a comment,
10 then a separate question, but I think we
11 certainly have found such meetings to be
12 useful. I think a recent one at Chapman Valve,
13 which actually followed up an earlier meeting
14 on the site profile -- around the time the site
15 profile originally came out, but a follow-up
16 meeting recently, I think with NIOSH, our
17 contractor and actually the chair of our
18 working group, John Poston, was there and some
19 people came forward who hadn't been -- come
20 forward before and were able to provide very
21 significant useful information on the facility.
22 So I'd strongly urge that that -- that get done
23 in this case and I -- particularly given some
24 of the questions that have been raised here.
25 My question for -- for you, Brant, is -- if you

1 could explain a little bit more about the basis
2 for the radon estimates.

3 **DR. ULSH:** Okay, sure. I actually may not be
4 the best person, that might be Tom Tomes again
5 -- Tom, if you could perhaps speak to that.

6 **DR. WADE:** Tom, could you identify yourself and
7 your affiliation and...

8 **MR. TOMES:** Tom Tomes, I'm with NIOSH.

9 **DR. WADE:** And then speak slowly.

10 **MR. TOMES:** All right. You're wanting some
11 clarification on how we reconstruct the radon
12 doses, is that --

13 **DR. MELIUS:** Yeah, I'm -- I'm...

14 **MR. TOMES:** Okay. Well, I'm not an authority
15 on the Technical Information Bulletin that was
16 developed. I've -- I've read it several times
17 and I was not involved with developing it, so
18 I'm not the best person to speak on -- on that
19 particular issue. But I can summarize what's
20 in it. It -- it's -- contains evaluation of
21 radon studies that have been done by various
22 phosphate plants --

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

24 **MR. TOMES:** -- and including mining, which --
25 phosphates, which was not part of the

1 particular process that we associated with --
2 with Blockson. And that study -- it's TIB-43
3 and I -- I -- like I say, I cannot -- I cannot
4 be an authority on the development of that.
5 However, that does recommend various results
6 and those -- the results were a recommendation
7 for (unintelligible) radon to phosphate plants.
8 And so we have taken that result and applied it
9 to Blockson. The radon -- the results are --
10 there is a multitude of results in that
11 document, various radon levels, and we applied
12 the distribution to Blockson.

13 **DR. MELIUS:** Okay. Thanks for trying, but --

14 **MR. GRIFFON:** Just to -- just to follow up on
15 that question, though, I think it's been raised
16 by some of the commenters, too. How did you
17 determine whether this facility was similar
18 enough in size, in ventilation, to be -- for
19 TIB-43 to be applicable to this facility,
20 Blockson?

21 **MR. TOMES:** Well, base -- the -- the reasoning
22 behind the radon at -- that we're assigning at
23 Blockson is basically not that the radon was in
24 that building, because the -- the radium was
25 not diverted to Building 55. So we're assuming

1 that the radium -- the rad-- there was radon on
2 the site, and we've taken this study and used
3 the results, because we cannot say with
4 confidence that radon did not migrate into that
5 building from other facilities on-site.

6 **DR. MELIUS:** So -- so is -- is the issue of
7 sort of the possibility for migration the
8 reason for the assigning the 50th percentile?

9 **MR. TOMES:** Well, the -- I -- I took the --
10 actually I took the recommendation for a best
11 estimate.

12 **DR. MELIUS:** Okay. Okay.

13 **DR. ZIEMER:** Well, okay, clarify then -- was
14 the separation of the uranium from the stream
15 done prior to the uranium arriving in Building
16 55?

17 **MR. TOMES:** Yes, it was.

18 **DR. ZIEMER:** Okay, so there -- there's no
19 phosphate in Building 55, per se.

20 **MR. TOMES:** Right, the phosphogypsum is --

21 **DR. ZIEMER:** So the only --

22 **MR. TOMES:** -- separated --

23 **DR. ZIEMER:** -- radium -- if you're doing
24 workers in Building 55 -- not under an SEC,
25 just the regular dose reconstruction -- you're

1 only talking about -- well, are you even
2 talking about natural radium -- or natural
3 radon in the building? Is that a -- is that a
4 component of this? Because that -- that's
5 there anyway.

6 **MR. ELLIOTT:** I think what we're talking about
7 here is ambient radon that found its way inside
8 Building 55, not part of the process stream.
9 It's on-site. These are huge piles --

10 **DR. ZIEMER:** Because of the piles of --

11 **MR. ELLIOTT:** -- huge piles of rock --

12 **DR. ZIEMER:** Okay.

13 **MR. ELLIOTT:** -- that are being processed.
14 They're sitting there all around these
15 different buildings. Yes, we understand that
16 Florida's buildings may have open windows where
17 Illinois's buildings are typically closed in
18 (unintelligible) --

19 **DR. ZIEMER:** And that -- that radon would have
20 been there even if they weren't doing the
21 uranium work, 'cause they were still doing the
22 phosphate --

23 **MR. ELLIOTT:** That's correct. That's correct.
24 That's the commercial radiation exposure.

25 **DR. ZIEMER:** Okay. But -- but what you're

1 saying, though, is that nonetheless, we will
2 add that by some means --

3 **MR. ELLIOTT:** We think it's --

4 **DR. ZIEMER:** -- to this since it -- in a sense,
5 it's part of the process.

6 **MR. ELLIOTT:** -- beneficial to the claimants
7 that we do include this.

8 **DR. MELIUS:** Yeah, my -- my problem is in both
9 the example dose reconstruction and in the
10 Technical Basis Document that's not well-
11 explained. I think it's probably back in that
12 TIB-0043, whatever it is that's the -- the
13 generic document for -- for that.

14 **MR. ELLIOTT:** Well, we didn't -- Brant didn't
15 walk you through the dose reconstruction
16 examples and so perhaps that's part of the why
17 it's not clearer. If we'd explained those
18 individually, you might have --

19 **DR. MELIUS:** Cer-- certainly it's -- it's --

20 **MR. ELLIOTT:** -- been able to --

21 **DR. MELIUS:** -- as it's written, it's not
22 clear.

23 **MR. ELLIOTT:** Understood. Understood.

24 **DR. MELIUS:** So I -- but --

25 **MR. ELLIOTT:** The studies that Tom is referring

1 to are a collection of studies that come out of
2 the Bureau of Mines and NIOSH has done some
3 work on these -- these Florida phosphate
4 facilities, and so that's where we get our data
5 from.

6 **DR. MELIUS:** I -- I have a follow-up question,
7 I -- John Mauro is here? Yeah, he just
8 happened to be standing up. Is that -- is that
9 TIB is one of the ones on our review list or
10 not, TIB -- I think it's TIB-0043, yeah.

11 **DR. MAURO:** The site profile review? Is that
12 what you're -- I'm sorry, I (unintelligible) --

13 **DR. ZIEMER:** No, no, this is the radon -- the
14 TIB on --

15 **DR. MAURO:** No, it's not.

16 **DR. MELIUS:** Okay.

17 **DR. MAURO:** We checked into that.

18 **DR. ZIEMER:** Thank you. Yes, Gen Roessler.

19 **DR. ROESSLER:** I may have one additional radon
20 question, and I don't think it's been clear.
21 And while we have the -- I think the person who
22 brought this up in the audience, I would like a
23 more specific answer on it. I think -- and I'm
24 not sure who it was, was talking about the
25 difference in the ventilation and the climate

1 and -- and the building construction and that
2 sort of thing between Florida and here in
3 Illinois. And I don't -- I didn't hear anybody
4 specifically say that they took that into
5 consideration when they used the data from the
6 Florida process and extrapolated to -- to here
7 in Illinois. And I just thought while we have
8 the person here I assumed when they asked the
9 question, I'd like more clarification on it.

10 **MR. TOMES:** Well, the dat-- the data that was
11 used in the old TIB was indoor data, primarily.
12 There may have been a few outside results
13 'cause I read through all the results that was
14 put in that data, and it was primarily indoor
15 data.

16 **DR. ROESSLER:** Yeah, but even so, if it's
17 indoor air, if -- and we know this from homes
18 with radon. If you have a lot of ventilation,
19 then your levels are going to be a lot lower.
20 And so I think there has to be some sort of
21 consideration for the different type of
22 building and -- and the ventilation and perhaps
23 the way the building is constructed.

24 **DR. ZIEMER:** Well, obviously some points of
25 confusion here on how that radon document was

1 used. But what we're talking I think about
2 piles of excess or -- what would be the proper
3 term -- spent phosphate that contains residual
4 radium, I believe, that is emitting radon into
5 the air. So presumably you have a higher
6 source of radon in the vicinity of the plant
7 and the plants -- the buildings are having some
8 air intakes and so it's a question of --

9 **DR. ROESSLER:** Then it might be just the
10 opposite.

11 **DR. ZIEMER:** Well, there's --

12 **DR. ROESSLER:** Yeah, I'm beginning to
13 understand that --

14 **DR. ZIEMER:** -- also data to show you don't
15 have to be very far from a pretty big source of
16 radon before you can't even see it again, so...

17 **DR. ROESSLER:** Yeah, but if you're talking then
18 about a Florida situation, then those levels --
19 if there was more ventilation -- inside the
20 building might have been higher and it might be
21 the -- what was I think a misunderstanding --
22 more claimant-friendly. Is that --

23 **DR. ULSH:** If I could perhaps take a crack at
24 this, Dr. Roessler -- I don't know, maybe I
25 won't be any more successful than I have

1 already, but you have to keep in mind the way
2 that we applied this at Blockson. The rock --
3 the phosphate rock came onto the site and the
4 streams were split. The part of the phosphate
5 rock stream that contained the radium that
6 generates the radon did not go into Building
7 55. It did not. But in order to bound the
8 radon doses, we treated it as if it did. So if
9 you're asking if the radon estimate that we've
10 provided -- is that realistic, the answer's
11 probably no; it's probably way high because --

12 **DR. ZIEMER:** Are you assuming the phosphate is
13 in the building?

14 **DR. ULSH:** The numbers that we used in TIB-43
15 are numbers from phosphate mills in Florida
16 where the phosphate material is inside the
17 building. That's what I'm trying to say is
18 that this is a bounding estimate and --

19 **DR. ZIEMER:** That would greatly overestimate
20 the radon.

21 **DR. ROESSLER:** Thank you, that --

22 **UNIDENTIFIED:** (Off microphone)

23 (Unintelligible)

24 **DR. ULSH:** Oh, here?

25 **UNIDENTIFIED:** (Off microphone) Yes.

1 **DR. ULSH:** Oh, you caught me. This represents

2 --

3 **UNIDENTIFIED:** (Off microphone)

4 (Unintelligible)

5 **DR. ULSH:** This represents my attempt to say

6 that Blockson made fertilizer -- which they

7 didn't do, that's why I didn't say it in the

8 presentation -- because phosphate rock is

9 frequently used in the production of

10 fertilizers. However, that did not occur at

11 Blockson, so that graphic is -- you caught me.

12 **UNIDENTIFIED:** (Off microphone)

13 (Unintelligible)

14 **DR. ULSH:** You know, it never occurred to me

15 that it resembles that. If it had, I probably

16 would have picked something different, too, so

17 -- no, it's supposed to be a --

18 **UNIDENTIFIED:** (Off microphone)

19 (Unintelligible)

20 **DR. ULSH:** -- agricultural.

21 **UNIDENTIFIED:** (Off microphone)

22 (Unintelligible)

23 **DR. ZIEMER:** Okay.

24 **UNIDENTIFIED:** (Off microphone)

25 (Unintelligible)

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DR. ZIEMER: It prob-- it just goes into the air. That's what normally happens.

Michael, did you have a question?

MR. LAPINE: Yes, I do have something to add. I just want to bring it back to a little bit of basics here and let's remember what this is all about. The EEOICPA was designed to help classes of workers who fell ill working during the time of the Cold War. Why do we have the SEC? It's for groups of people who dose reconstruction can't be done on an individual basis. With all due respect, Mr. (sic) Ulsh, you have estimated the engineering controls. You have no dust measurements. You have estimated the monitoring. You based that on five workers. You have estimated the hours worked at 40 hours per week. Who works 40 hours per week, then or now? You've estimated the production. You have no records after 1955 of how much was produced. You estimated radon exposure based on a facility in Florida? As I see it, you guys have one hard-core fact. It is the urinalysis of 25 workers. That's it. We have 296 claimants. What is their one

1 common denominator? They all worked at
2 Blockson. What's their other common
3 denominator? They all fell ill. Let's bring
4 it back to basics. I'd like Mr. Miller to add
5 something to this, as well. Thank you.

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

7 **MR. MILLER:** Richard Miller from GAP. I just
8 have a couple of questions, and -- and I
9 appreciate that neither Tom nor Brant are all
10 that familiar with OTIB-43. Who wrote OTIB-43?

11 **DR. ULSH:** The ORAU team wrote OTIB-43.

12 **MR. MILLER:** Who on ORAU wrote it?

13 **DR. ULSH:** I would have to get back to Ed --
14 Tom, do you have a copy of it?

15 **MR. MILLER:** Okay, and -- and -- and then
16 behind that is who reviewed it in NIOSH that
17 has familiarity with the data that went into
18 it, is sort of the next question, so if someone
19 could answer those to start with.

20 **MR. TOMES:** I have the list of the subject
21 experts here, on the -- on the document -- Gary
22 Dare, Roger Gard and Michaeline Rodriguez, and
23 I was not the reviewer of this in OCAS so I can
24 -- I cannot answer that question.

25 **MR. MILLER:** You don't -- nobody knows who the

1 reviewer of this was? In other words, if this
2 is a NIOSH document that is owned by the
3 agency, who is the owner on -- on this? The
4 document shows that it's signed by Elise
5 Thomas, Kate Kimpan and Jim Neton. Now who
6 actually did the review and owns it? 'Cause we
7 need to hear from NIOSH on TIB-43 'cause I
8 think this is really at the crux of a lot of
9 the questions that we're grap-- grappling with
10 here. Does -- can anyone answer that? Who
11 owns this document in NIOSH? Who is the person
12 who says Jim Neton, put your John Hancock on
13 it?

14 **DR. ZIEMER:** We may have to track that down.
15 Did you have a comment, Richard?

16 **MR. MILLER:** Yeah, I mean I -- this -- this
17 gets at it, though, because -- and I appreciate
18 the difficulty you're facing presenting
19 something that you don't have intimate
20 familiarity with.

21 The first question I guess I have is when I
22 looked at TIB-43, TIB-43 sought to break out a
23 variety of radon datapoints, some were from the
24 underground rock tunnels which were excluded
25 because they're not comparable to a phosphate

1 plant. And then there were a number of other
2 datapoints that were included. These were then
3 put into a distribution and then a geometric
4 mean was taken of that, and that was what was
5 applied here.

6 Now the question that I had posed yesterday and
7 would pose again is why is it that, for
8 example, the upper 95th percentile -- which is
9 normally what you'd do with coworker models,
10 assuming this data is representative, which we
11 haven't established yet -- why is it the 95th
12 percentile wouldn't have been used as your
13 bounding dose estimate?

14 **DR. ULSH:** Okay. First of all, we're not
15 representing -- we're not -- it's not our
16 position that this is representative. It's our
17 position that this is bounding. And the reason
18 that we're making -- we're taking that position
19 because this -- the radon data was for
20 facilities that were similar to Blockson and
21 had the same source material; that is,
22 phosphate rock from Florida.

23 Now with regards to the 95th percentile,
24 certainly that would be an overestimate. But
25 when you consider the fact that the ra-- the

1 radon-generating material never even went into
2 Building 55, we considered that the 50th
3 percentile was an appropriate value to use --
4 the geometric mean.

5 **MR. MILLER:** Okay, fine. Now let's go to the
6 second question which Pete Turcic raised, which
7 was when Blockson Chemical was initially
8 listed, it was Building 55 only, and then there
9 were -- and there was a series of *Federal*
10 *Register* notices that were made about Blockson
11 Chemical over the years. I believe there were
12 two supplements to that in terms of defining
13 what constituted covered employment and covered
14 activities at the facility.

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

17 **MR. MILLER:** Bear with me for a second.

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

20 **MR. MILLER:** Yeah, bear with me for a second.
21 I just want to get to it for a second and --
22 and delighted to hear your answer to it.
23 My understanding is -- from having read the
24 contract between Atomic Energy Commission and
25 Blockson -- that Blockson purchased uranium at

1 around \$10 bucks a pound -- Blockson sold,
2 rather, uranium at about \$10 bucks a pound to
3 the government. The government didn't pay for
4 a phase of the process; they paid for a product
5 out the end of the door -- off the -- off the
6 gate.

7 My understanding of how this plant and the
8 process worked was that you had the rock
9 phosphate come in. It was dissolved I believe
10 in sulfuric acid. It went through a
11 precipitating process. At a certain point, the
12 radium precipitated out of the stream and then
13 once it got through several precipitating
14 processes, it wound up getting to Building 55
15 where there probably wasn't much radium left in
16 there anymore given the precipitating process.
17 The question was, given that this is not a side
18 stream and that all dose has to be counted --
19 all dose to workers has to be counted in the
20 course of this, including NARM, or nat-- you
21 know, some sort of naturally occurring
22 radioactive materials here, the question is,
23 how can you exclude or are you excluding those
24 who were involved in the pestle-grinding? They
25 had these big grinders that ground up the rock,

1 and then you had another group of people that
2 loaded it with front-loaders and then they
3 dumped them into vats, and then once they're in
4 the vats they added the sulfuric acid, and then
5 they neutralized the acid and then they
6 precipitated out the sludges. Okay. All of
7 those phases of the production process took
8 place in some kind of building or maybe they
9 took place out -- out of doors, I don't know.
10 How come -- first of all, is that covered
11 activity under -- for purposes of dose
12 reconstruction?

13 Second question, is that covered activity
14 appropriately bounded here? And if it's
15 appropriately bounded, how do you know it's
16 appropriately bounded with respect to the
17 facilities in Florida?

18 **DR. ULSH:** Okay. The answer to your first
19 question, Mr. Miller, if I could perhaps take a
20 stab at that. As I understand it, and I'll let
21 Pete correct me if I misspeak, since placing
22 someone in Building 55 or somewhere else on the
23 Blockson site.

24 They don't make an effort to do that. In other
25 words, anyone who works at Blockson is eligible

1 to apply -- put in a claim for compensation in
2 this program.

3 Pete, do you want to add to that?

4 **MR. TURCIC:** Yeah, I think there's some
5 confusion going on here, confusing the
6 difference between what is the covered facility
7 versus what we're talking about here is who is
8 a covered employee, you know, who gets in that
9 door.

10 What -- the covered facility is Building 55,
11 the Pilot plant, and any of the activities that
12 were involved in the phosphate trail in the
13 main production line that was involved in the
14 process that ended up dumping the uranium out -
15 - you know, outside. So the covered facility
16 are parts of that phosphate trail plus Building
17 55 and the Pilot plant.

18 From a standpoint of then administering the
19 program, we found that there was no way we
20 could identify only those people -- you know,
21 identify the people that actually worked in
22 Building 55 or in the functions that -- there
23 were functions added to the main product stream
24 in order to subtract it out. Those added
25 functions are in fact part of the covered

1 employment.

2 So we have two things here. We have the
3 covered facility. But then how do we get to
4 who is covered in those facilities; and for all
5 intents and purposes, it's everybody in
6 Blockson because we are unable to make those
7 separations.

8 **DR. ULSH:** Okay. Now with regard to the second
9 question that you asked, how do we know that
10 the activities that occurred in Building 55 are
11 bounding for the other things that Pete just
12 mentioned. You have to recall, Richard, that
13 what they were doing in Building 55 was
14 concentrating uranium there, and so the
15 concentration of the uranium that they handled
16 in Building 55 was higher than any of the steps
17 prior. And the workers had direct contact with
18 the yellowcake. Therefore the -- it's normal --
19 -- it's reasonable to assume that the -- that
20 the activities that occurred in Building 55
21 with more concentrated uranium are bounding --
22 I mean in a general sense.

23 **MR. MILLER:** Bounding except for radon, because
24 radon was already removed by that stage in the
25 process.

1 **DR. ULSH:** That is correct.

2 **MR. MILLER:** And because of that, the -- the --
3 the production process -- I guess the question
4 that I'm trying to still get clarity on, I
5 think Dr. Ziemer was kind of zoning in on this
6 better maybe than I did or -- when he spoke
7 earlier. My question is, are you assuming --
8 when you're saying that you can reconstruct
9 dose with sufficient accuracy -- that you can
10 reconstruct the dose with sufficient accuracy
11 for the ball grinder, the loader, the tank --
12 the guys who dump the stuff in the tank, the
13 people who shoveled out the sludge which had
14 all of the precipitate that came out in the
15 various stages as it moved through the process
16 prior to it ever getting to Building 55? Are
17 you saying you can bound it for them as well,
18 and if so, what is your basis for concluding
19 that you can bound it and -- and -- in terms of
20 your comparison with these Florida facilities?

21 **DR. ULSH:** Okay, I -- I think you're perhaps
22 combining a couple of different issues. The
23 ans-- the short answer to your question is yes,
24 we are saying that the dose reconstructions
25 that we do that consider the activities in

1 Building 55 bound any dose from any activity
2 that occurred at the Blockson Chemical site. I
3 think that might answer your question. Now --

4 **MR. MILLER:** Except for radon.

5 **DR. ULSH:** Now, in terms of radon, we are using
6 numbers from similar facilities in Florida
7 where the radon-generating material was
8 actually inside the building, which is not the
9 case here. That's -- the radon-generating
10 material at Blockson is outside the building
11 and not inside --

12 **MR. MILLER:** But -- but it -- but was it in
13 another building or was it just all handled out
14 in the snow and the ice and the sleet?

15 **DR. ULSH:** I can't answer that. It was
16 somewhere outside of the covered facility --

17 **MR. MILLER:** But --

18 **DR. ULSH:** -- on the Blockson site.

19 **MR. MILLER:** -- but you see, this notion that
20 it's outside the covered facility is creating a
21 bit of -- I mean Pete just explained, I think
22 very clearly, that the covered activities go
23 well beyond Building 55 and so we have to
24 analyze what took place with the folks who
25 ground -- I mean most of the radium is going to

1 **DR. ZIEMER:** -- do you wish to make a motion?

2 **DR. MELIUS:** No, I don't want to make a motion,
3 but let me say what I'm thinking about and get
4 some reactions from the Board. First of all, I
5 -- I'm -- I would propose that we postpone
6 action on this. I think for -- two things I --
7 several reasons. One is I think it would be
8 helpful, certainly to the credibility of the --
9 of the process and so forth, that NIOSH do more
10 outreach and -- and hold a meeting as been --
11 as has been suggested and I think Larry agreed
12 to it. I'm not -- don't want to commit you,
13 but I think there -- there was a willingness to
14 do that, so I think it -- that -- that would be
15 helpful.

16 Meanwhile, I think we need -- certainly need
17 clarification on this production issue. My
18 neighbor here, Bob Presley, looked up the USA
19 Today article on the Internet while we were
20 talking and it did -- did say two million
21 pounds or something like that of uranium. Now
22 again, what the basis for that is, I think we
23 need to know and get a better handle on. And I
24 think that's something NIOSH should do and --
25 and can do and so forth.

1 I would also like to get clarification on this
2 radon issue and exactly what's being done
3 there, and I would I think propose that we have
4 SC&A foc-- do an evaluation focused on that
5 specific issue and re-- report back to the
6 Board. I'm not sure if there were other issues
7 that other members of the Board have that
8 they'd like sort of technical clarification on,
9 but I guess I would be proposing a sort of a
10 focused review by SC&A, focusing on that
11 particul-- at least on that particular issue --
12 with the idea that that could be reported back
13 in a timely and fairly short -- short period of
14 time.

15 **DR. ZIEMER:** Dr. Melius, I guess at this point
16 you're -- you're raising a flag here to see if
17 anyone salutes -- as opposed to making a formal
18 motion or what might be included in a motion --

19 **DR. MELIUS:** Yeah.

20 **DR. ZIEMER:** -- in addition to the items you
21 raise. I think you've identified or clarified
22 several points that have been the focus of this
23 discussion -- the worker outreach point, the
24 issue of the -- basically the source term --

25 **DR. MELIUS:** Right.

1 **DR. ZIEMER:** -- the production level, and then
2 the use of the radon data.

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

4 **DR. ZIEMER:** Wanda Munn.

5 **MS. MUNN:** As a matter of simple clarification,
6 Dr. Melius's suggestions are well taken.
7 Particularly of importance I think is that the
8 SC&A, if we do ask them to do so, focus very
9 clearly on this single point and not go astray
10 into other portions of what additional minutiae
11 might impact in some small way what's going on,
12 because this appears to be a large enough issue
13 that it could bear their scrutiny on its own.

14 **DR. ZIEMER:** Clearly the first two points, the
15 worker outreach, the ball would be in NIOSH's
16 court on that. The production issue, hopefully
17 we can get the source of the USA Today's data
18 and NIOSH's and find out perhaps -- I don't
19 know if Mr. Lapine can help us on that, but if
20 we can -- I guess we know now where the USA
21 Today data comes from. If Peter Eisler's
22 information can be made available, if he can
23 reveal his secret sources to us, perhaps we can
24 get clarity on that. And then the issue of the
25 radon, we have the TIB. In essence I think you

1 would be asking for a TIB review, and then how
2 it was applied to this particular facility.

3 **DR. MELIUS:** Correct, and -- and I think we'd
4 ask them to look both how it was -- well, I
5 think it's really how it was applied in the SEC
6 evaluation would I think sort of cover -- cover
7 it.

8 **DR. ZIEMER:** Other comments, Board members?

9 **MR. GRIFFON:** Just a -- yeah, I don't disagree
10 with the -- the notion of a targeted review. I
11 -- I think it might be worthwhile for at least
12 the Board to consider some of the other issues,
13 though. I think we -- we probably need SC&A's
14 assistance on the radon, but I want to point
15 out that there's -- you know, there's no
16 external data, there's no -- there -- there is
17 urinalysis data, but we -- we should look at
18 the representativeness issue. I'm not sure
19 everybody's had a chance to really mull over
20 that data. I know I haven't. I looked in some
21 of the example DRs and there's -- there's some
22 different value applied. I think it's based on
23 maximizing principles in one case and different
24 values for other cases.

25 Also on the external, I think there's an

1 important point. We've been talking about this
2 40-hour issue, which seems very -- at least
3 NIOSH is proposing that as a sort of claimant-
4 favorable option, but I think we need to pay
5 attention to the -- the one-foot part of that
6 equation because if you look at figure five in
7 the TBD, the beta doses drop off from 150
8 millirem per hour on contact to two millirem
9 per hour at one foot, so I think -- you know,
10 it -- it's almost more claimant favorable to
11 assume one hour of direct handling than 40
12 hours at one foot -- it is more claimant
13 favorable. So there -- there's some details in
14 there that I think I need to look at. I'm not
15 sure we need to involve the contractor on all
16 of those, but --

17 **DR. ZIEMER:** In fact, if we were to pass a
18 motion of the type described, I -- I think the
19 -- the Chair would probably want to assign a
20 workgroup to track these between now and our
21 next meeting and -- and to address any related
22 issues. I -- I'm wondering if -- if it would
23 be helpful for the potential mover of the
24 motion to have some break time to prepare some
25 wording, and we are close to our -- our break.

1 And Jim, if you're willing to --

2 **DR. MELIUS:** Oh, I can -- I'm willing to take a
3 stab at it right now.

4 **DR. ZIEMER:** Right now, okay.

5 **DR. MELIUS:** Yeah.

6 **MR. STEPHAN:** Chairman, can we have just one
7 final comment before the motion comes on the
8 floor?

9 **DR. ZIEMER:** Sure.

10 **MR. STEPHAN:** I just have to make sure, not to
11 belabor the point, I think Mr. Griffon -- or
12 Dr. Griffon?

13 **MR. GRIFFON:** Mister.

14 **MR. STEPHAN:** -- Mr. Griffon and the doctor
15 have hit on this point, but I want to clarify
16 the -- the Senator's position. The Senator's
17 position is not to ask SC&A to review radon
18 only. The Senator's position is to ask SC&A --
19 and it's just his request; certainly --
20 obviously you don't have to do it, but his
21 request is to ask them to review the entire
22 process, so that is the external and internal,
23 whether or not it is reasonable; the source
24 term -- I believe it was mentioned earlier and
25 I'm not sure that I understand this correctly,

1 but that we only have data up until 1955 about
2 the volume of what was produced. Is that
3 correct? And so -- so that is one thing that
4 we would want to take a look at and how that is
5 factored in, if we can, 'cause that goes to the
6 issue of how -- how much was there. I just
7 want to make sure I have it all here.

8 Basically, you know, his request is a full
9 review of the SEC evaluation. We just -- we
10 just think that is fair. You know, I -- I
11 don't think the Senator would think that the
12 rest of those issues are minutiae, so however
13 they are addressed, hopefully they will be
14 addressed -- it is our request that they are
15 addressed by the audit contractor. Thank you.

16 **MR. GRIFFON:** The oth-- the other --

17 **DR. ZIEMER:** Let me -- let me respond to that,
18 and I understand the statement that you've
19 made. We generally put some boun-- bounds on
20 our auditor in terms of tasking them. It's --
21 it's not simply an open thing to do whatever
22 you wish.

23 The other part of it is that we have -- we have
24 to be careful that we don't task our auditor to
25 do work that NIOSH should be doing. For

1 example, the identification of the correct
2 source term I think rightfully is NIOSH's task.
3 And you know, we would want to look over the
4 shoulder and say have they used the right
5 sources, but I, for example, would not want to
6 task our auditor with the job of finding that
7 information when rightfully it's -- it's the
8 agency's job to do that. We -- we are auditing
9 what they do, and if a problem is identified
10 and there appears to be a discrepancy on a
11 point like that, then they need to go back and
12 -- and convince us that either they have the
13 correct information or if the USA Today's --
14 and -- and certainly if necessary we can have
15 our auditor look at the sources and say, you
16 know, who's reliable and so on. So I don't --
17 I don't think we'll tie their hands in saying
18 you can't look at anything else, but we -- we
19 do want to keep the scope somewhat focused,
20 also recognizing that concurrently we have a
21 whole lot of additional SECs that are not
22 unlike this, and there are limits to what we
23 can do in terms of our auditor's own resources
24 and time.

25 Mark.

1 **MR. GRIFFON:** That's fine, that's
2 (unintelligible).

3 **DR. ZIEMER:** Yeah. But -- but I think if we
4 have a workgroup that's tracking this and if we
5 find other issues, we do have the capability of
6 tasking the -- the contractor to do additional
7 tasks. And Lew, I think that's been our
8 practice and we can certainly do that as we
9 proceed, so -- we will be sensitive to those
10 other issues, as well.

11 So the Chair recognizes Dr. Melius for the
12 purposes of -- of making a motion.

13 **DR. MELIUS:** Yeah. Yeah. Yeah, I would move
14 that we postpone consideration of this SE-- of
15 our review of this SEC evaluation pending,
16 number one, that NIOSH conduct further activity
17 to attempt to clarify the discrepant--
18 important discrepancy in production figures
19 related to this facility and the time period in
20 question; number two, that until NIOSH has held
21 a meeting with people near -- near the facility
22 to obtain input from people, the
23 representatives, claimants and people that have
24 been involved in the SEC petition; and number
25 three, that the Board establish a workgroup

1 the one sort of slight change. It was in point
2 three that we established the workgroup and,
3 with the help of the contractor, track
4 appropriate issues including but not limited to
5 the radon issue. So it opens the door for
6 other issues to -- to be addressed.
7 That is the motion. Let us vote. All in favor
8 of the motion, raise your right hand. The
9 Chair is also voting. I was told that, for the
10 record, I needed to record my vote.
11 I see all eyes. Any no's that I haven't
12 detected?

13 (No responses)

14 And no abstentions. The motion carries. Thank
15 you very much. We're going to take a break.

16 **DR. WADE:** Well, could we do the workgroup
17 quickly? I mean it --

18 **DR. ZIEMER:** Oh, appoint -- appoint the
19 workgroup.

20 **DR. WADE:** While it's right here.

21 **DR. ZIEMER:** We can do that. As you know, the
22 Chair usually likes to get volunteers for
23 workgroups. We like three, or possibly four
24 individuals who are willing to participate in
25 this workgroup.

1 **MS. MUNN:** (Off microphone) (Unintelligible)
2 **DR. ZIEMER:** Wanda Munn.
3 **DR. MELIUS:** In that case...
4 **MR. GRIFFON:** What are you guys doing,
5 (unintelligible).
6 **DR. ZIEMER:** These two love to work together.
7 **DR. ROESSLER:** It's called balance.
8 **DR. MELIUS:** I missed you on Hanford.
9 **DR. ZIEMER:** Are there any others?
10 **DR. WADE:** It can be two.
11 **MR. GIBSON:** (Off microphone) (Unintelligible)
12 **DR. ZIEMER:** Okay, Mike Gibson. And --
13 **MR. GRIFFON:** You want to stay at three or --
14 **DR. ZIEMER:** -- I'll take one more. Okay, Gen
15 Roessler.
16 Dr. Roessler, you haven't chaired any
17 workgroups lately, have you?
18 **DR. ROESSLER:** I -- if this is to be done by
19 February, I couldn't take on the Chairmanship,
20 I don't think, but I could be on it.
21 **DR. ZIEMER:** You could be on it, okay.
22 **DR. ROESSLER:** Yeah.
23 **DR. ZIEMER:** Let's see, Wanda, are you chairing
24 anything? I know that Jim is and I know that
25 Mike is.

1 **MS. MUNN:** No, I'm not.

2 **DR. ZIEMER:** Would you chair?

3 **MS. MUNN:** Sure.

4 **DR. ZIEMER:** Okay, Wanda Munn. And the Chair
5 will be responsible for establishing times and
6 so on. Jim?

7 **DR. MELIUS:** Yeah, I have one further request
8 that's -- came up here and it's come up in the
9 past, also, and that's the whole issue of using
10 data from other facilities as part of either
11 coworker models or other models on source terms
12 and so forth. I really think we need to sort
13 of re-evaluate that and at least re-discuss
14 that at a -- at a Board meeting. There's
15 certainly some --

16 **DR. ZIEMER:** This may in fact be in that
17 category of an overarching or (unintelligible)
18 --

19 **DR. MELIUS:** Yeah, overarching technical issue
20 -- well, it's also a -- there's a legal aspect
21 to this because of the wording in -- in the Act
22 and so forth and I really think we need to pay
23 a little bit -- little attention to -- we
24 haven't talked about it in a while and it --

25 **DR. ZIEMER:** Basically this is a big-picture

1 policy issue of using coworker data.

2 **DR. MELIUS:** Yeah.

3 **DR. ZIEMER:** It's not confined to this site,
4 has a wider-reaching -- actually I think Mr.
5 Stephan mentioned that, as well --

6 **DR. MELIUS:** Yeah.

7 **DR. ZIEMER:** -- and that's one, when we talk
8 about workgroups, we can --

9 **DR. MELIUS:** And even -- I would like to have
10 some open discussion at our next Board meeting
11 on this --

12 **DR. ZIEMER:** We'll put it on --

13 **DR. WADE:** We can put it on the agenda.

14 **DR. ZIEMER:** Yeah.

15 **DR. WADE:** For my own edification, is there any
16 sense of timing conveyed with this motion or
17 the workgroup? Are we aiming at the February
18 meeting? Are we standing silent?

19 **DR. ZIEMER:** Well, maybe Larry can address the
20 issue of -- I mean --

21 **DR. WADE:** An outreach meeting.

22 **DR. ZIEMER:** -- we're -- we're recommending the
23 worker outreach program and, you know, what are
24 we talking about in terms of time-wise on that,
25 and also --

1 **MR. ELLIOTT:** Well, I'd like to get it done as
2 soon as possible. Can I have it done before
3 the February meeting? I don't know; we'll have
4 to look into that. We need to talk with the
5 right people and make sure we get it all
6 scheduled and coordinated.

7 What I came to the mike was to provide
8 clarification. You're not talking about
9 coworker data. When we use the term
10 "coworker," that has a specific definition.
11 Okay? What you're talking about is using data
12 from similar operations or processes not at
13 this particular facility.

14 **DR. MELIUS:** Correct.

15 **MR. ELLIOTT:** Okay. Coworker data, in our
16 parlance, means we've taken a distribution of
17 the workers' exposure data and we're applying
18 that to situations and people who do not have
19 monitoring data, so there's a subtle difference
20 there, but when you schedule this for your next
21 Board meeting, we want to be prepared to talk
22 about data used across facilities for similar
23 operations.

24 **DR. MELIUS:** Correct.

25 **DR. ZIEMER:** Thank you.

1 **DR. WADE:** Can -- can I assume then that -- as
2 to the timing of this, February is -- is
3 desirable, but certainly May is a target for
4 having this issue --

5 **DR. MELIUS:** Yeah --

6 **DR. ZIEMER:** Well, we certainly want an update
7 in February and to --

8 **DR. MELIUS:** Yeah.

9 **DR. ZIEMER:** -- to be as far along as we can.
10 Obviously we don't want to drag the decision on
11 Blockson on and on and on, so we -- we need to
12 move forward.

13 Michael?

14 **MR. GIBSON:** Yeah. Larry, this question's to
15 you. On the issue of coworker data, I know
16 there's the issue of using data from one plant
17 to another plant on workers, but there's also
18 the issue of coworker data at people at the
19 same site on the same job when the contractor
20 would maybe put a breathing air lapel monitor
21 on one out of every four workers, and it's the
22 rad tech who stands over here in the corner,
23 and the rest of us are over here doing the
24 work.

25 **MR. ELLIOTT:** And certainly that is a coworker

1 data issue. That's how we apply -- you --
2 you're bringing up an issue about how we apply
3 coworker data for people who weren't monitored,
4 but that's different than what you were talking
5 about here a moment ago.

6 **MR. GIBSON:** I understand, but I -- I mean I
7 brought that question up before and I bring it
8 up again. I'd like an answer to that.

9 **DR. MELIUS:** But -- but -- I mean -- my
10 understanding -- excuse me for interrupting,
11 Mike, but is that that is -- there's a number
12 of procedures that address that and my
13 recollection is that those were some of the
14 procedures that SC&A was reviewing. And so I
15 thought we were covering that -- that specific
16 issue, the co--

17 **DR. ZIEMER:** In a different TIB, I believe.

18 **DR. MELIUS:** In a different TIB, correct, yeah,
19 but that's -- so --

20 **DR. ZIEMER:** But that -- that issue is still --

21 **DR. MELIUS:** Yeah, so what we're --

22 **DR. ZIEMER:** -- to be addressed later.

23 **DR. MELIUS:** -- I guess what I was saying is we
24 weren't -- the -- sort of ignoring that issue,
25 but it was -- the facility to facility issue is

1 where...

2 **DR. ZIEMER:** Okay, thank you. Yes, Brad
3 Clawson.

4 **MR. CLAWSON:** I -- I just have one issue and
5 that is, you know, we're -- we're getting so
6 many -- we're getting on so many workgroups,
7 and one of the problems that I've seen here
8 lately is when the Chair is not able to be able
9 to meet at it, it's hard to be able to address.
10 Would it be beneficial for us to be able to
11 have a co-chair so that -- so that we can
12 proceed on with these? I know that in several
13 of our groups it's been quite difficult and I
14 just think it'd be -- if we appointed a co-
15 chair along with the chair so that we'd be able
16 to proceed on further and faster.

17 **DR. WADE:** I think we can take that up for all
18 the workgroups tomorrow.

19 **DR. ZIEMER:** Sure. Good -- good suggestion.
20 Okay, let's take a 15-minute break and then
21 we'll resume.

22 **DR. MELIUS:** I want to co-chair with Wanda.
23 (Whereupon, a recess was taken from 3:00 p.m.
24 to 3:30 p.m.)

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ALLIED CHEMICAL CORP. SEC PETITION
MR. STUART HINNEFELD, NIOSH/OCAS

DR. ZIEMER: Board members, we're ready to now turn our attention to the SEC petition for Allied Chemical Corporation, and Stuart Hinnefeld is going to present the evaluation report from NIOSH for Allied. Stu?

DR. WADE: As Stu is miking up, I would also ask, if there are petitioners or representatives for Allied Chemical, that they identify themselves.

MR. KLINGHAMMER:* Yes, my name is Billy Klinghammer. I'm the local President -- out of Metropolis, Illinois, Local 7-669.

DR. ZIEMER: Okay. Thank you, Billy.

DR. WADE: And we'll give you an opportunity to speak, Billy.

DR. ZIEMER: After he speaks, if you wish, we'll turn the mike to you.

DR. WADE: Anyone else?

(No responses)

Okay. Stu?

MR. HINNEFELD: (Off microphone) Okay. Thank you. I'm here to discuss the (unintelligible)

--

1 (Pause)

2 **DR. ZIEMER:** Are we on?

3 (Pause)

4 **MR. HINNEFELD:** I think I might be on now. Can
5 -- can you hear me? Okay.

6 I'm here to discuss our petition evaluation
7 report for the SEC -- class for SEC petition
8 associated with Allied Chemical Corporation in
9 Metropolis. Allied Chemical is a uranium
10 conversion plant. It's located in Metropolis,
11 Illinois. It converts uranium to -- largely
12 uranium hexafluoride for use elsewhere.

13 It had an arrangement with the AEC for a period
14 of time to produce uranium hexafluoride for I
15 believe the Paducah Gaseous Diffusion Plant,
16 for sure. Maybe for others, but certainly
17 Paducah. And so they had a relation--
18 relationship with the AEC during that time and
19 therefore is considered an Atomic Weapons
20 Employer for that period of time.

21 This again is an 83.14 petition. We've
22 evaluated the potential exposures there and
23 find that we have an issue with providing dose
24 reconstruction with sufficient accuracy for
25 dose reconstruction for all members of the

1 class, and so we've identified a particular
2 claimant, a representative claimant, that --
3 whose dose reconstruction we felt we couldn't
4 do appropriately, notified that person of that
5 and then we evaluated the class of similar
6 workers who may be in a similar situation.
7 I just went through these a little -- a little
8 bit ago. Our two-pronged test is to determine
9 if it's feasible to estimate the radiation
10 doses with sufficient accuracy. And if it is
11 not feasible, then we make a judgment about
12 whether there's a reasonable likelihood that
13 the radiation exposures at the plant may have
14 endangered the health of the members of the
15 class.

16 The Allied Chemical Plant's a uranium
17 conversion plant. It converted uranium ore
18 concentrates -- and probably other feed
19 materials, as well -- to UF-6. This was then
20 sent to enrichment facilities.

21 Covered employment period begins in 1959 when
22 the plant opened, and it continues until 1976,
23 which appears to be the end of the relationship
24 with AEC. Operation of the plant for
25 commercial purposes continued past our covered

1 employment period and, if I'm not mistaken,
2 still continues today. The plant still
3 operates today for commercial purposes.
4 Uranium ore, ore concentrates, and uranium
5 recovered from site operations -- you know, the
6 things you recover from the waste streams and
7 put back into the production stream -- were put
8 through a series of chemical reactions that --
9 of -- I outlined briefly there, ultimately
10 resulting in a UF-6 product. The SEC
11 evaluation report contains additional
12 information about the specifics of the
13 processes and what those actual chemical
14 processes were.
15 The UF-6 then -- the product is loaded into
16 cylinders, the big UF-6 cylinders -- or at
17 least most of them are big -- that we're
18 familiar with for -- those are suitable for
19 transport to other facilities.
20 It appears that personnel were routinely
21 monitored for external exposure, and we do have
22 monitoring results. The plant there cooperates
23 with us and provides exposure histories for
24 claimants when we go -- when we request them.
25 And personnel were monitored for internal

1 exposure for uranium by in vivo and in vitro,
2 you know, urinalysis bioassay. Those results
3 are available, though the in vivo monitoring
4 began after 1976. There's actually no in vivo
5 monitoring during the -- the period of -- the
6 covered period.

7 Now there are no monitoring data available in
8 the exposure records for exposures to non-
9 uranium radionuclides that would have been
10 present -- would have come in in the uranium
11 ore and ore concentrates, and then would have
12 been -- the relative states of equilibrium and
13 disequilibrium would have been disturbed as the
14 -- as the materials went through the conversion
15 processes.

16 And I say here there is no particular
17 information available about the relative
18 abundance of non-uranium radionuclides and
19 about how that relative abundance may have
20 changed in various parts of the plant.

21 We do have available to us some limited air
22 monitoring data for years after the covered
23 period. These indica-- these data indicate the
24 airborne concentrations -- concentrations
25 tended to decrease over time for this period

1 that we have data for, so since there is a --
2 since it's a -- not a constant concentration,
3 since it tends -- it has declined as time goes
4 on, which is probably generally true of the
5 industry in general that airborne
6 concentrations tended to decline as time went
7 on, we don't feel that these airborne data from
8 after the covered period provide us a method to
9 bound the exposures during the covered period
10 or what the airborne concentrations might have
11 been during the covered period because, while
12 we see them decline in later years, we don't
13 know where they declined from in 1959. And so
14 we don't feel like we're able to bound those
15 earlier exposures -- or earlier airborne
16 concentrations based on that later data.
17 Based on claimant interviews that have been
18 conducted, it appears pretty regularly that
19 routine chest X-rays were performed on an
20 annual basis as part of the routine physical.
21 This is not an unusual practice, and so if --
22 we believe we can reconstruct the medical dose
23 based on those protocols in the other existing
24 Technical Basis Documents that we've already
25 published about reconstructing medical

1 exposure.

2 So we have identified a case where we felt it
3 was not -- we could not obtain sufficient
4 information to do a dose reconstruction with
5 sufficient accuracy. On August 25th we
6 notified the representative claimant that dose
7 reconstruction could not be completed for his
8 case -- or her case, I don't know which -- and
9 a copy of the Special Exposure Cohort petition
10 Form A was provided that claimant. This is
11 essentially the short form petition, please
12 sign and send it back and we will do a petition
13 evaluation report.

14 Petition -- the type -- part A -- Form A
15 petition was returned to us on September 6th
16 and we proceeded with the preparation of
17 petition evaluation report which, you know, we
18 -- much of the research for we had done in
19 order to arrive at the conclusion that we
20 couldn't do the -- it wasn't feasible to do
21 dose reconstruction.

22 So our conclusion is we lack the monitoring,
23 process, or source information sufficient to
24 estimate the internal doses resulting from non-
25 uranium nuclides for the period of January 1st,

1 1959 through December 31st, 1976, which is the
2 entire covered period for the EEOICPA program
3 for this facility.

4 And we do believe that we have sufficient
5 information, though, based on the records we've
6 received from claimants -- relative to
7 claimants -- not from claimants, but the
8 records of the claimants that we have received,
9 we have sufficient information to estimate the
10 external dose, the internal doses from uranium
11 and the medical exposures for the period, for
12 the SEC period.

13 With respect to your health endangerment, we
14 have not identified incidents or a single
15 incident that would result in a -- in a dose of
16 the magnitude similar to a criticality
17 accident, so we don't believe that presence is
18 suitable -- is a suitable criterion for
19 inclusion. But we do believe that there's
20 evidence that workers were chronically exposed
21 to some level of radiation exposure, and that
22 exposure is sufficient to potentially endanger
23 their health, and therefore there's a -- we do
24 believe that there is a potential for harm,
25 given chronic exposure to the -- at the plant.

1 Our proposed class definition is all AWE
2 employees who were monitored, or should have
3 been monitored, for exposure to ionizing
4 radiation while working at the Allied Chemical
5 Corporation plant, Metropolis, Illinois, for a
6 number of work days aggregating at least 250
7 from January 1st, 1959 through December 31st,
8 1976, or in combination with work days within
9 the parameters established for one or more
10 other classes of employees in the SEC.
11 Now it's probably worth mentioning at this
12 point that when we use the phrase "monitored,
13 or should have been monitored" for this plant,
14 and it appears that certainly for a period of
15 this -- of this time there was a -- a strong
16 comprehensive monitoring program. I think
17 there -- it may be that there would be people
18 who worked during this period who should not
19 have been monitored, were not monitored, and
20 were correctly not monitored. And there may be
21 judgments made to that effect based upon --
22 perhaps on job title or perhaps on other
23 considerations. I'm just speculating at this
24 point. But I think the opportunity is here to
25 say that the -- there -- maybe not everyone was

1 exposed and therefore faced with potential for
2 harm for -- that the exposed workers faced, so
3 I would comment that that may be the case here.
4 Our recommendation then, based upon our
5 evaluation of available data, is that for this
6 period, January 1st, 1959 through December
7 31st, 1976, we find that we cannot construct
8 the entire dose with sufficient accuracy for
9 compensation purposes, so we don't believe it's
10 feasible to reconstruct the dose entirely
11 during that period. And we do believe that
12 there's potential for health endangerment.
13 These are the two questions that we have to
14 address in our recommendation.

15 And so much for my presentation.

16 **DR. ZIEMER:** Thank you, Stu, and if we were to
17 use the additional breakdown chart as we did in
18 the others, then if I can summarize --

19 **MR. HINNEFELD:** Uh-huh.

20 **DR. ZIEMER:** -- for external you would say
21 feasibility is yes?

22 **MR. HINNEFELD:** Yes.

23 **DR. ZIEMER:** For internal, uranium would be yes
24 --

25 **MR. HINNEFELD:** Yes.

1 **DR. ZIEMER:** -- and other nuclides would be no.

2 **MR. HINNEFELD:** Correct.

3 **DR. ZIEMER:** For external medical, yes.

4 **MR. HINNEFELD:** Yes.

5 **DR. ZIEMER:** So it's again, as in other cases,
6 the driver here is internal other than uranium.

7 **MR. HINNEFELD:** That's correct.

8 **DR. ZIEMER:** Thank you. Comments or questions
9 on this -- yeah, Wanda Munn.

10 **MS. MUNN:** I guess this does raise a question
11 that perhaps has not gotten as much thought as
12 it deserves, which is, in situations like this,
13 how are we going to legitimately decide whether
14 a person should have been monitored when we
15 have this interesting mixture of employees and
16 very differing sets of -- of job descriptions
17 there. Is there -- is there some way we can
18 parse that reasonably?

19 **MR. HINNEFELD:** Well, I -- maybe the short
20 answer is it's not our responsibility to decide
21 that. The Department of Labor administers the
22 class, and so -- I mean that would be the short
23 answer.

24 There are probably -- there -- there may be
25 information available for the specific

1 individual based on job title or other
2 information that we have from them, but I don't
3 -- I'm not familiar with, I don't have handy --
4 you know, memorized, or I don't know particular
5 -- that provides additional information about
6 that and about who really was potentially
7 exposed or not.

8 **MS. MUNN:** Really just wanted reassurance that
9 that responsibility was not going to wash over
10 into some of the activities that we have, that
11 this will remain outside the purview of this
12 Board's --

13 **DR. WADE:** Oh, I don't --

14 **MS. MUNN:** -- responsibility.

15 **DR. WADE:** I mean I don't know that that's a
16 given. I mean the Board can approach its
17 definition of a class in a variety of ways, so
18 the Board could decide to opine on that issue
19 based upon how it would define the class. The
20 -- the Board could say all the workers. So I
21 don't know that it's necessarily outside the
22 purview of the Board. It could be, depending
23 on how the Board chooses to do its business.

24 **MS. MUNN:** Thank you.

25 **MR. HINNEFELD:** Now when I was up here earlier

1 I was asked -- when I was up here speaking
2 about Harshaw, I was asked how many claims are
3 we talking about and I said I'd have the answer
4 by 3:00 o'clock from my staff back in
5 Cincinnati, and I do have it. I have it for
6 both sites.

7 For Allied Chemical, the site we're talking
8 about now, there are 59 total claims that have
9 time in the SEC time period, in the covered
10 period; 26 of those claims have at least one
11 SEC-listed cancer.

12 For Harshaw, the one I spoke about earlier,
13 they have 13 total claims in the SEC time
14 period, and nine of those have at least one
15 SEC-listed cancer.

16 **DR. ZIEMER:** Harshaw was 13 and nine?

17 **MR. HINNEFELD:** Thirteen and nine.

18 **MS. MUNN:** Very good.

19 **DR. WADE:** But we do have a petitioner's
20 representative to hear from, as well.

21 **DR. ZIEMER:** Yes, do you have comments to make
22 on this petition, sir?

23 **MR. KLINGHAMMER:** Yes, sir. I do appreciate
24 the work that NIOSH has done and all the hard
25 work went into it there. To the one question

1 about the job titles in the -- in the plant, if
2 I could maybe clarify some of that, in the
3 plant, as far as maintenance, we work -- we
4 work all over the plant, so you would be
5 assigned -- you were always going to get to
6 work in the feed building or the related
7 buildings around.

8 And on -- in the production side, everyone is
9 expected to do general labor, so they're liable
10 to -- they -- they might shut your unit down
11 here and have you digging out a elevator of UF-
12 4 in the basement. So the jobs are just spread
13 all over the plant, and there's no way you can
14 escape. Our main process is, you know, UF-6,
15 and some of the by-product operations outside
16 in the different buildings, they will all
17 eventually work in the feed building. It's
18 just -- it's just part of it. You're going to
19 be there.

20 On -- course I do appreciate the work done,
21 like I said, in the -- in the years of
22 eligibility, but we also had two incidents and
23 one of them I'd like to bring up was a UF-4
24 with plutonium in it that came from Fernald
25 that ca-- that ended up in our plant in the

1 late '90s. And I don't know if anyone ever
2 brought this to NIOSH's attention. We have a
3 hard time pap-- paper-chasing this down. We
4 know it came from Fernald, but we don't
5 actually know where its origin was. It could
6 have been -- you know, it could have been Oak
7 Ridge, it could have been Paducah; we don't
8 know. But it came in that plant and we're
9 estimating -- I've got paperwork on it --
10 probably '98 or '99 from there. And also --
11 and with that said, I think that deserves to be
12 looked into because that's introducing some
13 compounds in our plant that -- you know, that
14 most people didn't know was there and maybe
15 should not have been there.

16 Also on cylinder -- cylinder wash, we -- we
17 received cylinders back from Paducah, and they
18 could come from anywhere in the complex and --
19 our UF-6 cylinders, and we also -- we washed
20 the hills out of them. So we believe there is
21 a very good possibility that transuranics were
22 introduced back into the plant from either
23 Paducah, Portsmouth or wherever, 'cause we have
24 no way of knowing, what we sent out, if we got
25 the same cylinder back. Those cylinders in the

1 -- in the complex could come from anywhere.
2 So those are two of our concerns. And on our
3 dates of eligibility, like I say, I've -- I'm
4 not here to look a gift horse in the mouth and
5 -- and I appreciate the work that's being done,
6 and I'm just trying to add to it and I think
7 there's more work to be done. And we have not
8 had a official worker's outreach. I did
9 organize a little bit last summer with the DOL
10 and NIOSH came in and they was very helpful to
11 some of my retirees, but I -- I could be more
12 organized if I had an outlet to -- to go to.

13 **DR. ZIEMER:** In regard to your statement about
14 the plutonium and other possible nuclides, if
15 that were the case, I -- I don't see that that
16 would change your recommendation. It would
17 basically reinforce it, would it not?

18 **MR. HINNEFELD:** Yes, it -- and I --

19 **DR. ZIEMER:** The recommendation for SEC.
20 Unless it changes the dates in some way.

21 **MR. HINNEFELD:** Well, there's -- there's a
22 question here about the dates.

23 **MR. KLINGHAMMER:** The dates is -- and I know
24 the people that set the parameters on dates are
25 not here, and I know that the Department of

1 Labor -- with DOE or whoever -- helps set the
2 dates, and we just have to follow those
3 guidelines, or NIOSH does. But I just wanted
4 to put it as part of the record --

5 **DR. ZIEMER:** Yeah.

6 **MR. KLINGHAMMER:** -- of what we see that could
7 contribute to expanding these dates and the
8 residual effect, even without this other
9 material, could come --

10 **DR. ZIEMER:** Is that information --

11 **MR. KLINGHAMMER:** -- into play.

12 **DR. ZIEMER:** -- available on when the plutonium
13 that you referred to was introduced, or the
14 other...

15 **MR. KLINGHAMMER:** I would have to dig into my
16 files 'cause when the plutonium hit the plant -
17 - or this green salt hit the plant, I would
18 have to do what I could, but it might take more
19 than me to get -- to get to the bottom of it --

20 **DR. ZIEMER:** Is this --

21 **MR. KLINGHAMMER:** -- as to --

22 **DR. ZIEMER:** Well, let me ask NIOSH. Is this
23 new information or is this something we knew
24 about?

25 **MR. HINNEFELD:** This is not something that was

1 talked about in the petition evaluation report,
2 given the time frame. I mean, you know, for
3 material that was sent there in the '90s and,
4 you know, our -- you know, we really don't have
5 the authority or the ability to expand the
6 covered period of a site beyond, you know,
7 what's been established.

8 Now, having heard this information, though,
9 there may be avenues we could pursue about
10 finding out the -- the evolution of that --

11 **DR. ZIEMER:** Or -- or if there was something --

12 **MR. HINNEFELD:** -- and the (unintelligible) --

13 **DR. ZIEMER:** -- present after this time period
14 that could open --

15 **MR. HINNEFELD:** Yes. Then again, this is
16 pretty far outside my bailiwick in terms of
17 talking about what makes a site covered and
18 what makes it --

19 **DR. ZIEMER:** Yeah.

20 **MR. HINNEFELD:** -- covered work. In the -- in
21 the '90s, certainly Fernald wa-- had done --
22 was done producing and was dispositioning DOE
23 inventory in whatever way it could. This may
24 have been an excess uranium sale to the private
25 -- to private -- which probably is a little

1 different than a shipment from a DOE facility
2 as part of that DOE facility's operation.

3 **MR. KLINGHAMMER:** I do have -- I do have
4 further -- I do remember. We did bring NRC
5 involved in that and so they would have -- they
6 came in and done their own investigation as far
7 as checking the material, so they would -- it
8 would be on record with NRC.

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

10 **DR. WADE:** We do have a request from the
11 audience that we all speak into the microphones
12 clearly, so -- to the Board and to people who
13 come to the microphone, please.

14 **DR. ZIEMER:** Thank you.

15 **MR. KLINGHAMMER:** Thank you very much.

16 **DR. ZIEMER:** Brad, do you have a comment?

17 **MR. CLAWSON:** Yeah, I -- hello? I was just
18 concerned because they were only calling out
19 the UF-6, and what I was wondering was if it
20 addressed any of the -- if they'd diluted,
21 because I guess from my standpoint, I know that
22 Idaho sent out some stuff from -- that had not
23 gone through first or second or third cycle yet
24 and it was not highly enriched, so I know that
25 they sent out to Metropolis a dilution process

1 to be able to utilize that. I've -- I'm
2 wondering if we got any information on that
3 because --

4 **DR. ZIEMER:** Do you know what form that was in,
5 other than these forms here, you mean?

6 **MR. CLAWSON:** Yes, it was a -- it was a
7 different form. It was after the process of
8 dissolving the fuel down. But it's -- it had
9 not gone through first or second or third cycle
10 because -- to be cleaned up because it was not
11 enriched enough to be able to utilize that, so
12 it was sent out to be able to ru-- to be run
13 through there with their feed stock to go into
14 the cleanup process, and this was in the early
15 -- early '70s and late '60s. So I was just
16 wondering if the -- if -- if NIOSH had looked
17 at any of -- any of the other products that
18 came in from other sites, say Hanford or Idaho.
19 It seems like we had a tendency to do that.

20 **DR. ZIEMER:** Again I would ask whether that
21 would change this recommendation at all.

22 **MR. HINNEFELD:** Yeah, we've said that for
23 products that would have other constituents in
24 it, you know, other radionuclides besides
25 uranium, we can't -- we don't feel like we can

1 reconstruct --

2 **DR. ZIEMER:** They're saying --

3 **MR. HINNEFELD:** -- the internal dose
4 (unintelligible).

5 **DR. ZIEMER:** -- they can't reconstruct dose
6 anyway, so that --

7 **MR. HINNEFELD:** The external dose should be
8 appropriate to be measured by the monitoring
9 devices they used, we believe. We can't -- we
10 can't reconstruct the internal doses from
11 things other than uranium, so the things other
12 than uranium that would have come in with that
13 material we can't reconstruct anyway, so our
14 evaluation wouldn't be changed by that
15 information.

16 **MR. CLAWSON:** Okay, I understand.

17 **DR. ZIEMER:** I guess the way I'm looking at it
18 is unless the plutonium and other materials
19 came in after '76, it doesn't appear that it
20 would change this recommendation. At least
21 that's how I read it. And is -- in this case,
22 is the '76 date -- is that established by the -
23 - either the contract or the DOL? Pete, can
24 you speak to that? Do you know in this
25 particular case, is that -- '76 is locked in,

1 you know --

2 **MR. TURCIC:** That -- well, it's not locked in
3 if we get information that's material and that
4 there was a contract at a later date that went
5 beyond that, we could expand that date.

6 **DR. ZIEMER:** Could expand, so that doesn't
7 close the door if --

8 **MR. TURCIC:** Right.

9 **DR. ZIEMER:** -- if --

10 **MR. TURCIC:** But if it came from Paducah -- you
11 know, if it came from Paducah after Paducah
12 became USEC, that wouldn't be DOE. So that
13 would just be a commercial operation and...

14 **DR. WADE:** Yeah, I'd like to just get on the
15 record that -- is -- is the NIOSH
16 recommendation for the entire covered period?

17 **MR. HINNEFELD:** Yes.

18 **DR. WADE:** Okay. And -- and if that period was
19 to be changed, it would need to be changed by
20 DOL and DOE, not NIOSH or this Board.

21 **MR. HINNEFELD:** Yes, and if it were changed, I
22 -- now we may really want to look at what we
23 know about those years. You know, we have no
24 non-uranium bioassay data up through 1976,
25 because that's what we evaluated. If the -- if

1 the -- if the covered period is changed, if
2 there's a contract in the 1990s, for instance,
3 and there -- so that is added, then it would
4 still take us to look in 1990 -- do we have
5 non-uranium data in 1990, because that was not
6 part of what we looked at at this time.

7 **DR. ZIEMER:** Yeah. So in fact that wouldn't
8 affect this recommendation for an SEC at this
9 point.

10 **MR. HINNEFELD:** Correct.

11 **DR. ZIEMER:** Okay. Thank you. Other comments
12 or questions?

13 (No responses)

14 Okay. Thank you, Stu. Board members, do you
15 wish to make a recommendation on this
16 particular petition at this time?

17 **MS. MUNN:** Yes.

18 (Pause)

19 **DR. ZIEMER:** Wanda and Jim are in collusion
20 here, I think, for some reason. They're trying
21 to see who's going to make the recommendation.

22 **DR. MELIUS:** No, no -- being requested. I
23 already have my second, though.

24 **DR. ZIEMER:** Okay, Wanda is -- is going to make
25 --

1 **DR. MELIUS:** I would -- oh, go ahead.

2 **DR. ZIEMER:** Jim's ready to recommend whatever
3 you say, Wanda.

4 **MS. MUNN:** That's nice.

5 **DR. MELIUS:** Save it, right?

6 **MS. MUNN:** I would like to move that the worker
7 at Allied Chemical Corporation who are covered
8 by the Special Exposure Cohort -- that's before
9 us today, Petition Number 00067, be granted
10 Special Exposure Cohort status in accordance
11 with the stipulations of that SEC petition.

12 **DR. ZIEMER:** And seconded?

13 **DR. MELIUS:** I second it.

14 **DR. ZIEMER:** And this again the Chair will
15 interpret as being with the caveat that the
16 exact wording of the motion will come before us
17 for a final look tomorrow.

18 **DR. MELIUS:** Right.

19 **DR. ZIEMER:** In a similar fashion as the other
20 items that we've agreed to earlier in this
21 meeting.

22 Are you ready then to vote on this petition?

23 **DR. WADE:** Could I -- could I raise a qualif--
24 just a clarifying point? We do have this issue
25 of -- of workers who were monitored or should

1 have been monitored, and I -- I haven't heard
2 discussion on that, or resolution of that.

3 **DR. ZIEMER:** Well, let me comment on that, Stu,
4 and then you can comment on it. I -- it would
5 seem to me that, since we're arguing that dose
6 cannot be reconstructed because of the internal
7 issue, we can argue that those should have been
8 monitored for internal and weren't and
9 therefore meet the criteria. That's my initial
10 reaction. Help me understand that if that
11 doesn't make sense. I mean --

12 **MR. HINNEFELD:** Well --

13 **DR. ZIEMER:** -- yes, they were monitored, but
14 not completely monitored is sort of...

15 **DR. MELIUS:** If they --

16 **MR. HINNEFELD:** We have a population of workers
17 who were monitored for uranium, effectively.
18 Okay? And it's a pretty -- a pretty robust
19 set.

20 **DR. ZIEMER:** Right.

21 **MR. HINNEFELD:** I mean a pretty high
22 percentage. There may be other workers who
23 were not, where we have these people -- you
24 know, no monitoring performed. And so the
25 question then becomes did they correctly not

1 monitor certain people, and this -- we'd do --
2 what we'd have to do -- we'd have to learn some
3 more about the plant. Was there, for instance,
4 an administration building. Was there an
5 administration building somewhat remote from
6 the plant that people didn't leave the
7 administration building. And if the
8 characterization of the site was sufficient,
9 you would say well, okay, people in the
10 administration building maybe wouldn't need to
11 be monitored. So there's a opportunity for
12 that.

13 I'm not saying that there's anybody like that.
14 I'm saying that, unlike Harshaw where we're
15 pretty clear that we wouldn't today say that
16 people who worked at Harshaw shouldn't have
17 been monitored, we may today say that there may
18 be jobs at Metropolis where people don't need
19 to be monitored. So it's just an op-- it's a
20 possibility that I wanted to -- you know, to
21 mention, not a definitive statement that there
22 are some people there who shouldn't have been
23 monitored. I didn't mean to say that.

24 **DR. ZIEMER:** Okay, Jim, and then --

25 **DR. MELIUS:** Yeah. Yeah, my understanding is

1 that we'll hear Pete Turcic and the Department
2 of Labor will be presenting tomorrow and --
3 morning, and my understanding was that we were
4 going to wait before we finalized our -- our,
5 you know, letters until after we'd had a chance
6 to discuss some of these issues -- at least
7 generally and maybe specifically -- for these
8 sites with -- with Pete, so...

9 **DR. WADE:** That's fine.

10 **MR. KLINGHAMMER:** Also I'd like to ask if our
11 security guards are part as covered employees.

12 **MR. HINNEFELD:** Well, as -- as a general rule,
13 security guards -- our view of security guards
14 is they're exposed. You know, security guards
15 sometimes in the DOE system weren't
16 particularly -- weren't necessarily badged or
17 monitored the same way the production workers
18 were. As a general rule, security workers,
19 security guards were exposed.

20 **MR. KLINGHAMMER:** Okay, so they would be
21 covered in --

22 **DR. ZIEMER:** Well, that's true, even if --

23 **MR. HINNEFELD:** Again, that's not my decision.

24 **DR. ZIEMER:** They might not have been employed
25 by --

1 **MR. HINNEFELD:** It's not my decision.

2 **DR. ZIEMER:** Security guards are often employed
3 by, you know, Wackenhut or somebody --

4 **MR. KLINGHAMMER:** They are Wackenhut.

5 **DR. ZIEMER:** Okay, how about that? That was a
6 shot in the dark, but they're -- they're not
7 employed -- so -- so what's -- what's the
8 impact of that, Pete?

9 **MR. TURCIC:** Since it's an AWE, any
10 subcontractors are not covered. That's
11 statutory. There is just no way around it.

12 **MR. KLINGHAMMER:** Okay. Given that, how about
13 our sampling plant that was run by a
14 contractor, Lucius Pitkins*, up to what year,
15 (unintelligible), '78?

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

18 **MR. KLINGHAMMER:** It was a contractor that run
19 the sampling plant. It was not Allied
20 Chemical.

21 **MR. TURCIC:** (Off microphone) (Unintelligible)

22 **DR. ZIEMER:** Pete can put -- put that on the
23 record on the mike here.

24 **MR. TURCIC:** Again, for AWEs, only employees of
25 the AWE are covered, and that's a statutory

1 requirement that -- just cannot get around, so
2 no subcontractors are covered at AWEs.

3 **MR. PRESLEY:** I have a question, please. Were
4 your -- when did Wackenhut pick up your
5 security contract?

6 **MR. KLINGHAMMER:** Wackenhut -- it used to be
7 Burns, so it's --

8 **MR. PRESLEY:** Oh, okay.

9 **MR. KLINGHAMMER:** -- always been a
10 (unintelligible) --

11 **MR. PRESLEY:** So it has been a -- it's always
12 been a --

13 **MR. KLINGHAMMER:** It's always been external,
14 yes.

15 **MR. PRESLEY:** Okay. Thank you, sir.

16 **DR. ZIEMER:** Was there another question?

17 (No responses)

18 Okay. The implication here is that there --
19 there might be some words in the actual final
20 document that address this issue of "or should
21 have been monitored". Okay.

22 **MR. HINNEFELD:** Well, that -- that language
23 also comes from the statute in the
24 establishment of the original --

25 **DR. ZIEMER:** Right.

1 **MR. HINNEFELD:** -- the statutory --

2 **DR. ZIEMER:** Right.

3 **MR. HINNEFELD:** -- defined classes.

4 **DR. ZIEMER:** Okay. We'll now vote. All in
5 favor of this motion -- the motion is to
6 approve the SEC -- say aye -- well, raise your
7 hand, we'll get a hand count.

8 (Affirmative responses)

9 The Chair's also voting. It appears to be
10 everyone here.

11 Any no's?

12 (No responses)

13 Any abstentions?

14 (No responses)

15 None? I assume Dr. Poston is not on the line.
16 Is that correct?

17 **DR. WADE:** Correct. And so the vote, for the
18 record, is nine zero.

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

20 **MR. PRESLEY:** We need to find out something
21 about John.

22 **DR. ZIEMER:** We have -- we have a public
23 comment period this evening, but we have a
24 couple of individuals who did wish to make
25 public comment that are not going to be able to

1 be here this evening, and we want to afford
2 them the opportunity to speak. Do we know who
3 they are?

4 **DR. WADE:** One's --

5 **DR. ZIEMER:** Mary Beth -- is it Mary Beth?
6 Okay. And is there another one also, do you
7 know?

8 **DR. WADE:** I don't know.

9 **DR. ZIEMER:** Okay. Well, go ahead, Mary Beth.

10 **MS. CHARLEY:** My name's Mary Beth Charley. I'm
11 here on behalf of my father, Robert, who worked
12 at Blockson. We've heard so much about the
13 dose reconstructions inside the building,
14 outside the building, in Florida, in Joliet.
15 We've heard absolutely nothing about the four
16 retention ponds that were there that these men
17 had to stand there with rifles and guard. I've
18 heard absolutely nothing about that. And this
19 is my -- just a little comment I'd like to
20 make. This has been going on now for almost
21 seven years.

22 Most times you're given a specific amount of
23 time in order to produce your records or you're
24 held responsible. If they can't produce the
25 records from '55 to '58 and this has been going

1 on for seven years, how much longer will it go
2 on? Thank you.

3 **DR. ZIEMER:** Thank you. And could somebody
4 help me understand the retention pond issue
5 further. Is -- was that -- is this a retention
6 pond that's holding the -- the tailings or what
7 -- what is the issue on the retention ponds, do
8 we know?

9 Larry, okay.

10 **MR. ELLIOTT:** Unfortunately Brant Ulsh and Tom
11 Tomes have left, and they were the ones who
12 might have been aware of this. I am not aware
13 of the retention ponds. We'll check --

14 **DR. ZIEMER:** But since we --

15 **MR. ELLIOTT:** -- into this.

16 **DR. ZIEMER:** -- are going to be reviewing
17 Blockson further, perhaps we can ask that any
18 issues relating to that -- it's not obvious to
19 me whether that would be included if there were
20 an SEC or if it's included if there's not an
21 SEC. It's par-- it's on the site. Is that
22 correct?

23 Okay. Thank you. Was there someone else that
24 wished to make a comment?

25 (No responses)

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DOL PROGRAM UPDATE
MR. PETER TURCIC, DOL

Okay. We are a bit ahead of schedule and since there are members of the Board that were hoping tomorrow to -- to be able to catch planes in the late afternoon, it -- it is possible that -- and I believe Pete has agreed that if we have the time we would proceed with the report from Department of Labor. It's on our agenda for tomorrow morning. But Pete, if you're agreeable, without objection from the Board, we'll hear the report from -- Department of Labor update.

13 (Pause)

14 **MR. TURCIC:** Is it on now? Okay. Just to give
15 you a status of -- of where we're at with the
16 program, again, just a brief overview. The
17 Part B became effective July of 2001 and to
18 date, as of November 30th, we've received
19 nearly 55,000 claims -- cases, with over 78,000
20 claims involved in those cases. Of those,
21 35,000 of them are claiming cancer and 22,700-
22 and-some have been referred to NIOSH for dose
23 reconstruction.

24 Part E was enacted in 2004 and our regs were

1 issued in June of 2005. And in that program
2 we've -- we have about 43,000 cases involving
3 58,000 claims. Now we inherited some 25,000 --
4 over 25,000 cases from DOE, which was the old
5 Part D program. And that, again, became
6 effective in -- in June.

7 Now under the two programs now we've been
8 getting on the average -- we get about 100
9 cases -- new cases a week in Part B and right
10 around 200 -- anywhere from 150 to 200 a week
11 in Part E.

12 The compensation that has been paid -- we've
13 paid a total of \$2.4 billion in compensation.
14 Of that, \$1.8 billion is from Part B, with \$1.3
15 billion being related to cancer claims and
16 another \$212 million -- \$212 million were RECA
17 claims under the Radiation Exposure
18 Compensation Act.

19 Part E, as -- as you can see, is growing
20 rapidly and we're at \$519 million in Part E
21 already. In fact, the number of cases that we
22 have made decisions and paid in in Part E have
23 now exceeded the cases in dose reconstruction.
24 And then we've paid another \$132 million in
25 medical benefits.

1 The -- the payees, they're -- between the two
2 programs there's a total of 26,000 unique
3 payees. You know, many payees got -- received
4 benefits under B and then also received
5 benefits under E, but uniquely -- 26,000 unique
6 payees have received EEOICPA benefits to date.
7 Of those, 21,700 are Part B payees with 8,756
8 cancer cases; 5,000 cases that are NIOSH case -
9 - related cases, and 6,679 RECA payees, and
10 4,267 payees under Part E. And you can see the
11 percentage that -- you know, that that makes
12 up. And as you can see, about 35 percent of
13 the -- of the cases had -- are cancer cases, of
14 the payees.

15 The status of these 35,000 cases, 24,000 have
16 final decisions. Then there's another 2,646
17 that have a recommended decision, and at the --
18 between a recommended decision and awaiting a
19 final decision, a little bit over 5,000, the --
20 the cases at NIOSH. And 2,910 are pending
21 initial action.

22 The result of these final decisions in these
23 cancer cases, again, 8,906 approved --
24 approvals, total 15,397 denials. Now if you
25 look at the denials, 2,700 of them are for non-

1 covered employment and -- you know, that's
2 either they worked at a facility -- usually
3 it's a facility of -- that is not covered by
4 the Act, or it may be that, you know,
5 subcontractors at AWE facilities, so that would
6 be non-covered employment; 9,052 because the --
7 the product -- the probability of causation was
8 less than 50 percent; and 2,200 insufficient
9 medical evidence, and 1,130 were non-covered
10 conditions. We had a lot of cases filed under
11 Part B that it was, you know, just a non-
12 covered condition. And then there was, under
13 Part B, 287 ineligible survivors.
14 The status of the cases referred to NIOSH,
15 again, nearly 23,000 cases have been referred
16 to NIOSH. Seventeen -- you know, nearly 18,000
17 have been returned, with 1,239 were withdrawn
18 and that's usually -- most of those withdrawn
19 cases are for added SECs, so then the case is
20 withdrawn from NIOSH; 1,600 and -- 16,481 dose
21 reconstructions with currently 937 reworks, and
22 I'll talk a little bit more about that, and
23 about 5,000 initial referrals at NIOSH.
24 The case status, the 15,000 with a dose
25 reconstruction, 12,700 have final decisions, so

1 82 percent of the cases that have come back
2 with a dose reconstruction have gone through
3 the system and are at final decision -- have a
4 final decision; 1,900 have a recommended
5 decision but no final, and 885 are pending a
6 recommended decision.

7 For the results of the cases from dose
8 reconstruction, here again, approvals 3,708 are
9 approvals and 9,033 have been denials.

10 The new SECs, we track those and we have a
11 process where, you know, we withdraw the cases,
12 we -- those that we can establish as part of
13 the SEC, we process them. Those that aren't,
14 we would, you know, send back to NIOSH. The
15 1,222 withdrawn for SEC review, 772 of them
16 have final decisions, with 636 approvals and
17 136 denials. And 343 have a recommended
18 decision but no final decision at this point,
19 and 107 are -- are pending.

20 The NIOSH -- what we refer to as NIOSH case-
21 related compensation -- so these would be cases
22 that have gone through dose reconstruction or
23 cases that were, you know, at a facility that
24 then became an SEC, total of \$636 million in
25 compensation, with 6,240 payees in 4,251 cases.

1 Of that, \$543 million have been paid on dose
2 reconstructed cases and another \$93 million so
3 far on cases that have been, you know,
4 withdrawn and processed under an added SEC.
5 These numbers don't include, you know, the five
6 -- or the four statutory SECs. That's just the
7 -- the new added SECs.

8 And I've been asked about these reworks. From
9 the inception of the program there's only been
10 1,891 cases that have been returned to NIOSH
11 for a rework. Now looking at what constitutes
12 those -- you know, what was the reason for
13 those reworks, well, 1,159 were changes in
14 medical condition. Either the case -- a -- an
15 additional cancer is identified or, you know,
16 sometimes we'll -- you'll have a case where
17 it's a unknown primary; we send it to NIOSH for
18 a dose reconstruction with an unknown primary.
19 Further medical evidence comes in and now we
20 know what the primary is, so there's a -- a
21 number of reasons. But as you can see, the
22 vast, vast majority of cases that are sent back
23 for a rework are cases -- the reason for the
24 rework is a change in the medical status. And
25 of those, only 150 -- 150 of them had come back

1 from NIOSH, would have been an approval, and
2 then was sent back for some change in medical
3 condition. And the vast majority there, you
4 know, over 1,000 of them, were denials that
5 were being sent back for a rework to see if --
6 if the -- you know, that then changed the
7 outcome. And the outcome -- it's been running
8 about 25 percent. When we -- when we send a
9 case -- when we send cases back to NIOSH for a
10 rework, overall -- the overall statistics, and
11 it's been holding right at about 25 percent of
12 them will -- you know, they'll be returned to
13 NIOSH -- it would have been a denial, returned
14 to NIOSH, comes back and it flips from a non-
15 compensable to compensable in about -- about a
16 quarter of the time. Another 607 are
17 employment-related issues. We either find
18 additional employment, usually. You know, in
19 543 cases we found additional employment and so
20 the case had to go back for a -- a rework.
21 Thirty-four of them were administrative.
22 Could be that the -- several things there would
23 be -- you know, if we found a new -- an
24 additional survivor, for example. We have to
25 send it back because to give the additional

1 survivor that was just -- you know, just came
2 forward the opportunity to do the -- for NIOSH
3 to do the interview and so forth. And so --
4 and again, there's only been 34 cases. And
5 only 91 have involved technical issues. So
6 from -- from the program inception to date,
7 there's only been 91 cases that involved a
8 technical issue that was sent back for a
9 rework.

10 Now one thing on there that I do see and we do
11 see and have a concern that is really looming
12 in the future, and I mean we're starting to get
13 -- and as you know, our process -- NIOSH gives
14 us a dose reconstruction, we issue a
15 recommended decision, that goes to the
16 claimant. The claimant has the opportunity at
17 that point -- in fact, the only point that the
18 claimant has the oppor-- that's the first point
19 that the oppor-- claimant has an opportunity to
20 file an objection on, you know, anything in the
21 case, including the dose reconstruction. And
22 we're getting an awful lot of -- we're starting
23 to get a lot of objections filed based on
24 issues that are before the Board. And what's
25 looming is they're not being resolved.

1 In our regulation, in -- in a year, a -- if we
2 do not issue a final decision within one year,
3 then the recommended decision becomes affirmed.
4 Well, if we can't address, you know, the
5 objection because the issue is still
6 unresolved, you know, with the Board and NIOSH,
7 then we have no choice but to send that -- that
8 case back. And there are, you know,
9 ramifications, you know, to that. So we do
10 see that looming. That is a ever-growing
11 prospect, and I would just, you know, urge the
12 Board to, you know, come to resolution because
13 -- on issues because, you know, there are
14 consequences to, you know, not having
15 resolutions. I mean these -- there are real
16 cases out there that are really dependent upon
17 resolution of those issues.
18 And with that, I'd be happy to take any
19 questions.

20 **DR. ZIEMER:** Thank you, Pete. Pete, on your
21 fourth slide where you showed the number of
22 NIOSH case payees, these are Part B payees,
23 would -- would that number -- it was 5,035,
24 does that include the SEC --

25 **MR. TURCIC:** No.

1 **DR. ZIEMER:** -- payees, or is that just the DR
2 -- dose reconstruction?

3 **MR. TURCIC:** That would be the DR.

4 **DR. ZIEMER:** Okay. Thank you. Jim Melius.

5 **DR. MELIUS:** Yeah. I like your new color
6 scheme for your slides. Maybe NIOSH needs --
7 you know, we've had this yellow and blue and
8 white for a long time. We need a -- maybe a
9 change here.

10 I -- I have a question on the -- as you just
11 brought up on the rework -- actually a number
12 of questions, but could you give an example of
13 an issue that's waiting for the Board to
14 resolve, 'cause this is the first I believe
15 I've -- we've heard of it, so --

16 **MR. TURCIC:** Okay. We'll --

17 **DR. MELIUS:** -- this is an issue, so I mean I'd
18 like to have more detail so we can try to
19 address it and figure out how we -- also
20 communicate so we know that -- you know, what -
21 - what is being held up and -- and so forth.

22 **MR. TURCIC:** Well, one -- one example is, you
23 know, someone can file a -- you know, there are
24 issues related to like Rocky Flats.

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

1 **MR. TURCIC:** Okay. So we have cases that are
2 hanging there, and the objection is that NIOSH
3 did the dose reconstruction in one way and
4 there were issues that are involved --

5 **DR. MELIUS:** With the -- yeah.

6 **MR. TURCIC:** -- that are unresolved, so we're
7 going to have no choice -- and those are really
8 approaching a year, and they also involve new
9 cases coming in. You know, for consistency, we
10 can't let those -- so -- so that's why I'm
11 saying it's --

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

13 **MR. TURCIC:** -- it's really the water building
14 behind the dam.

15 **DR. MELIUS:** But -- but -- but are they all SEC
16 issues? I guess I'm --

17 **MR. TURCIC:** No.

18 **DR. MELIUS:** -- trying to identify 'cause --

19 **MR. TURCIC:** No, a lot of them are --

20 **DR. ZIEMER:** Sounds like they're DR issues, but
21 --

22 **MR. TURCIC:** Most of them are site profile
23 issues.

24 **DR. ZIEMER:** Yeah, but they involve individual
25 dose reconstructions or SEC cases?

1 **MR. TURCIC:** They involve --

2 **DR. ZIEMER:** Or both?

3 **MR. TURCIC:** You see, what happens, Paul, is
4 the individual will get a dose reconstruction
5 based on --

6 **DR. ZIEMER:** So it is a --

7 **MR. TURCIC:** -- a site profile --

8 **DR. ZIEMER:** -- DR case.

9 **DR. MELIUS:** Yeah.

10 **DR. ZIEMER:** Okay.

11 **MR. TURCIC:** -- and then they file an objection
12 at the FAB based on the issues that are, you
13 know, being --

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

15 **DR. ZIEMER:** I guess there's --

16 **MR. TURCIC:** -- identified for --

17 **DR. ZIEMER:** -- cases out there that -- where
18 there's kind of a time clock running, and I --
19 this is the first I've heard of it.

20 **DR. MELIUS:** Yeah.

21 **DR. ZIEMER:** I'm wondering -- and do you make
22 NIOSH aware of those cases, like, you know,
23 case number such-and-such is going to be closed
24 on a certain date if we don't have this
25 decision and --

1 **MR. TURCIC:** The -- the way we do that now is
2 we've been trying to hold onto them until, you
3 know, there is resolution. So there's a lot of
4 back and forth between us and NIOSH on is there
5 resolution on this particular issue. You know,
6 if -- if a case comes through that -- that the
7 -- that issue is not going to address, we move
8 it forward. But if -- if there's an issue
9 that's being worked on, and in discussions
10 between the staff -- you know, DOL staff and
11 NIOSH staff -- if there is no resolution --
12 yeah, and then we -- we do say well, you know,
13 this is approaching a year and we're going to
14 have to send it back. And this is -- this is a
15 growing thing that --

16 **DR. ZIEMER:** Yeah, I'm just wondering as we
17 look forward do -- do we need to be made
18 cognizant of what issues these are and the
19 numbers of cases being affected and -- so that
20 --

21 **MR. TURCIC:** Sure.

22 **DR. MELIUS:** Could --

23 **DR. ZIEMER:** -- I mean we're operating I guess
24 in sort of -- oblivious of this --

25 **DR. MELIUS:** Yeah --

1 **DR. ZIEMER:** -- occurrence.

2 **DR. MELIUS:** -- what might be a way of
3 addressing this is if we could at least, for
4 our next meeting, have a snapshot of --

5 **MR. TURCIC:** I'll be glad to (unintelligible) -
6 -

7 **DR. MELIUS:** -- yeah, yeah, of those that --
8 that would categorize them in broad categ--
9 'cause at this --

10 **DR. ZIEMER:** Just an idea of the kind of issues
11 --

12 **DR. MELIUS:** Yeah.

13 **MR. TURCIC:** That can --

14 **DR. ZIEMER:** -- and numbers of cases involved
15 and --

16 **DR. MELIUS:** Yeah, 'cause --

17 **DR. ZIEMER:** -- if there's actions that we can
18 take, either on an interim basis or permanently
19 -- and I don't know, Larry, if you have any
20 guidance for us on that, but we certainly want
21 to help -- if -- if we -- if we're -- if we
22 need to do something to assist NIOSH on that
23 issue, we need to be aware of it.

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

25 **MR. ELLIOTT:** Well, this is an emerging issue

1 that we've been made aware of just recently, as
2 Pete says. When we talk -- when we talk about
3 this interaction between NIOSH and DOL, what we
4 -- what we're trying to communicate in that --
5 those interactions are have we at NIOSH taken
6 up something we've heard in the Board's
7 deliberation and made an adjustment. And if we
8 have made an adjustment, we let them know that
9 so that they can move that -- that piece
10 forward. If we haven't made an adjustment
11 because it's still unresolved in our minds,
12 then we tell them that. And what I'm hearing
13 Pete tell me in these -- in the latest
14 interactions on this is that we're going to see
15 a lot of claims come back to us that we're
16 going to have to start, you know, attending to
17 and -- and answering questions about and -- and
18 unfortunately for the claimants, not see any
19 progress on until we have a resolution of the
20 issue.

21 **DR. ZIEMER:** So it sounds like you're trying to
22 hold off as long as you can, but at some point
23 you've got to do something.

24 **MR. TURCIC:** It's -- it's getting to the point,
25 Paul -- we tried to hold off, but we're under

1 this one-year thing. And you know, I mean if
2 it gets affirmed, then it could go to District
3 Court, and they're just going to send it back
4 anyhow because it's unresolved. But it's
5 starting to become large enough that -- you
6 know, I can't go up to the line on the one
7 year. You know, so that's going to have to
8 start back-- backing off a little bit. But --
9 but I'd be glad at the next meeting to give you
10 a -- a snapshot of what they are.

11 **DR. WADE:** Pete, just so I -- I understand. So
12 with the clock running and approaching a year,
13 your options then are to send it back to NIOSH.

14 **MR. TURCIC:** It's -- that-- that's the only
15 option I have.

16 **DR. WADE:** The only option you have. And then
17 --

18 **MR. TURCIC:** But Lew, it -- it affects -- that
19 would be disingenuous if I only sent those back
20 that approached a year. I mean once the first
21 case approaches a year, I've got to send them
22 all back, even the new ones that come, that
23 suffer the same -- the same thing.

24 **DR. WADE:** Okay. Thank you.

25 **DR. MELIUS:** You know, I -- I think if we had a

1 snapshot -- I mean --

2 **MR. TURCIC:** Yeah, that'll be -- okay.

3 **DR. MELIUS:** -- let's work on it to -- together
4 -- the extent that we -- we can. On -- on the
5 reworks, I believe -- and this may be part of
6 the same discussion because it may be somewhat
7 related, but is -- I think at one point you
8 sort of gave us a snapshot -- this may have
9 been a couple of years ago -- on the -- I think
10 we asked for the technical rework categories
11 just to get a handle 'cause in somewhat -- ways
12 those are -- may relate to some of the issues
13 that we're also evaluating in our dose re--
14 individual dose reconstruction --

15 **MR. TURCIC:** Yeah.

16 **DR. MELIUS:** -- reviews and I think it'd be
17 useful to know what those are. And I think it
18 would also be useful as part of understanding
19 the -- sort of the quality assurance/quality
20 control for this overall program is -- I mean
21 the reworks are the ones you send back. You
22 may review a number of others, you know. I
23 don't think the Board's interested in the
24 administrative or the medical or the --

25 **MR. TURCIC:** Right, I understand.

1 **DR. MELIUS:** -- employment issues as those come
2 up, but certainly where there are, you know,
3 technical issues that you're -- you're focusing
4 on possibly as a result of a rework going back
5 or -- or what you're getting back from NIOSH, I
6 think it would be useful for the -- the Board
7 to have in terms of -- we're trying to make our
8 dose reconstruction review, you know,
9 productive, useful. I don't think the two
10 programs should mirror each other, but -- but
11 hopefully they complement each other, but also
12 we don't want to duplicate activities and so
13 forth. So having an idea of what's one -- what
14 is in your technical -- your reworks that are
15 sent back technically. Also, you know, what --
16 what's your way of focus-- are these coming
17 from -- how you identify them, I guess is what
18 we're -- we're looking -- would be -- might be
19 useful to us.

20 **MR. TURCIC:** We identify them two ways.

21 **DR. MELIUS:** Yeah.

22 **MR. TURCIC:** One, we identify them either
23 through an objection --

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

25 **MR. TURCIC:** -- you know, that a claimant

1 makes.

2 **DR. MELIUS:** Okay.

3 **MR. TURCIC:** Or we identify them on our own in
4 that -- frequently what -- what the rework may
5 -- may involve is that something was changed in
6 a site profile --

7 **DR. MELIUS:** Okay.

8 **MR. TURCIC:** -- in between --

9 **DR. MELIUS:** Okay.

10 **MR. TURCIC:** -- you know, so --

11 **DR. MELIUS:** Yeah. Yeah.

12 **MR. TURCIC:** -- so those would be, you know,
13 self-identified or --

14 **DR. MELIUS:** Okay. Yeah. I -- I think if we
15 had that -- some sort of a -- a breakdown of
16 where --

17 **MR. TURCIC:** Yeah.

18 **DR. MELIUS:** -- those are, I think it'd be --
19 the numbers are a little higher than they --

20 **MR. TURCIC:** Yeah.

21 **DR. MELIUS:** -- they were the last time --

22 **MR. TURCIC:** Yeah.

23 **DR. MELIUS:** -- you gave that to us and I think
24 it'd be -- be helpful. If -- somebody else --
25 then I'd like to ask some other questions, but

1 I've been --

2 **DR. ZIEMER:** Go ahead.

3 **DR. MELIUS:** Go ahead? Okay. The issue we've

4 been talking about a little bit earlier with

5 Blockson and -- and Allied and so forth is the

6 issue of how we, you know, define SEC classes.

7 And I think what we're looking for is to make

8 that process as -- as efficient and -- and

9 workable as possible for ev-- everybody

10 involved and that the language we use is

11 something that is, you know, useful to you, so

12 what -- I think we recognize that you have to

13 make that language and -- operational, and

14 often that really isn't -- I mean a lot of it's

15 individual reviewing individual work histories

16 and so forth, while some of it may be --

17 involve -- really as you -- you know, take --

18 spend the time to review the -- sort of the

19 employment information and type of information

20 that would identify people in the classes, but

21 -- but I think it would be helpful to know --

22 for us to know -- one is sort of how you

23 interpret some of this language to make sure

24 it's -- you know, like the "monitored, or

25 should have been monitored" language, make sure

1 that's the correct language to use. May --
2 maybe on another -- this -- SEC by SEC basis.
3 It may be useful for some, not useful for
4 others.

5 And then -- then secondly, what can we do to
6 make this process, you know, work and -- and
7 more efficient? How do we get, you know,
8 feedback and make sure that, at least on a
9 preliminary basis as you look at the SEC, that
10 what we're recommending is -- is useful and
11 workable. I think we all want to avoid
12 confusion and -- and problems -- witness what
13 we went through -- I mean trying to discuss
14 Blockson today, which is maybe an unusual case,
15 but it's certainly something that -- the --
16 where one could see problems if -- if we had
17 approved that and...

18 **MR. TURCIC:** The "monitored, or should have
19 been monitored" is always interpreted in
20 accordance with current standards.

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

22 **MR. TURCIC:** That's first of all.

23 **DR. MELIUS:** Right.

24 **MR. TURCIC:** You know, not what was done at any
25 particular time.

1 **DR. MELIUS:** Yeah.

2 **MR. TURCIC:** And then basically just, you know,
3 based on that, it -- it really goes to the kind
4 of occupation characterization that Stu
5 mentioned.

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

7 **MR. TURCIC:** You know, if there was a facility
8 where there was, you know, an administrative
9 building --

10 **DR. MELIUS:** Yeah.

11 **MR. TURCIC:** -- and those people weren't
12 monitored or shouldn't have been monitored,
13 then we would not include those in -- in the
14 class. In the example that you were talking
15 about -- I mean we have the occupations at
16 Metropolis, for example.

17 **DR. MELIUS:** Right.

18 **MR. TURCIC:** Apparently there is a lot of
19 internal monitoring data.

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

21 **MR. TURCIC:** So that at least tells you what
22 occupations and the scope, you know, of who was
23 monitored --

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

25 **MR. TURCIC:** -- or should have been monitored.

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

2 **MR. TURCIC:** Now they weren't monitored for all
3 the...

4 **DR. MELIUS:** Yeah.

5 **MR. TURCIC:** And so, you know, based on that,
6 we would probably look at those occupations --

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

8 **MR. TURCIC:** -- and say well, okay, these would
9 -- or should have been monitored, and anything
10 outside of that we would, you know, look on a
11 case by case basis and whether it made sense,
12 based on what they did, that they should have
13 been monitored.

14 **DR. ZIEMER:** But Pete, this presumes that you
15 have some knowledge -- for example, if someone
16 is -- let's say they're just a -- no, let's say
17 they're a clerk, an administrative clerk in the
18 financial office or something.

19 **MR. TURCIC:** Yeah.

20 **DR. ZIEMER:** Unless you know that they don't
21 have access to the restricted areas, you can't
22 simply say, by job title, well, they shouldn't
23 have been monitored anyway --

24 **MR. TURCIC:** Well --

25 **DR. ZIEMER:** -- or do you? I mean --

1 **MR. TURCIC:** Well --

2 **DR. ZIEMER:** -- I want to make sure that Labor
3 is looking at this the same way we do. I mean
4 if -- if we can -- if we can ascertain that
5 Building A on a given site -- people cannot go
6 from there to Building B because in Building B
7 you need a special badge, or there's some
8 restriction, and therefore we can exclude that
9 in our description --

10 **MR. TURCIC:** Uh-huh.

11 **DR. ZIEMER:** -- but I think if -- if we think
12 that you can't do that, and you guys are doing
13 it based on a title, then I -- I would be
14 concerned that we're -- we're not reading the
15 same --

16 **DR. MELIUS:** Yeah.

17 **MR. TURCIC:** It depends on how you -- and
18 that's why it's so important, depends on how
19 you write the definition. And it's all -- like
20 -- let me give you an example. You have Y-12
21 early years. You have it functionally. As I
22 said before, when you put something -- you --
23 you put a functional definition in there, that
24 is the most difficult to administer. Now -- so
25 the way we did that was -- I mean the -- the

1 functional definition was uranium enrichment,
2 people that were involved in uranium enrichment
3 and other radiological activities. We
4 translated that into three different groups of
5 -- and -- of occupations. The -- the first
6 group were groups of, you know, occupations
7 where there was no doubt that they would have
8 been exposed to -- they were involved in
9 uranium enrichment, so any of the occupations,
10 any of the buildings, you know -- we said all
11 right, if you fall into that category, there's
12 nothing else the claims examiner has to look
13 at, doesn't have to do any more development
14 work.

15 Then there was the group down on the other end
16 where it raises a question -- cafeteria worker.

17 **DR. ZIEMER:** Yeah.

18 **MR. TURCIC:** Okay? So what we do there then,
19 the claims examiner has to do development work.
20 In that group we would ask for -- we would need
21 to see some -- some kind of evidence that they
22 were in fact in that area, in the area where
23 the uranium enrichment was going on.

24 **DR. ZIEMER:** Okay, so you actually ascertain,
25 either by affidavit or --

1 **MR. TURCIC:** Well --

2 **DR. ZIEMER:** -- other evidence, that they
3 actually not only had the opportunity to go
4 into an area, but actually did.

5 **MR. TURCIC:** Yeah. Now there's the middle
6 group, Paul.

7 **DR. ZIEMER:** Okay.

8 **MR. TURCIC:** There's the middle group, and so -
9 - the first group, we don't do any more
10 development, we -- we just accept that that was
11 -- the other group where, you know, it would
12 raise questions -- if a cafeteria worker was
13 involved in uranium enrichment activities.
14 Then the middle group were people who could be
15 assigned anywhere -- mechanics, electricians,
16 you know, those kind of things. So what we do
17 there is we say -- and we have the claims
18 examiner and instructions for the claims
19 examiner, in this example, to look in the
20 record. Absent information in the record to
21 the contrary, you assume that they were in the
22 uranium enrichment.

23 Now if -- if in the interview they said that
24 they were a mechanic and they worked, you know,
25 at some other part of the facility or doing

1 something else, then we wouldn't put them in
2 that group unless they could show that they
3 were, you know, in there for the 250 days.
4 So that's how it's done when it's -- when it's
5 functionally. Then you have a situation, you
6 know, more where it's -- it's buildings, and
7 that becomes a lot easier because then you're
8 not worried about the occupations. So that --
9 that's how -- and again, it really comes down
10 to --

11 **DR. ZIEMER:** Okay, that's helpful to know that.
12 Jim Lockey, and then Mike.

13 **DR. LOCKEY:** In the -- in the case of General
14 Atomics and NIOSH, at the end of the proposed
15 class, listed 15 buildings that they thought
16 should be included in the class.

17 **MR. TURCIC:** Uh-huh.

18 **DR. LOCKEY:** Is it the Department of Labor's
19 position they would accept that list as -- with
20 -- actuality the class would be?

21 **MR. TURCIC:** Okay, we would -- what we would do
22 there is we would -- then it becomes an
23 empirical evaluation of what is available. If
24 we could put people in those individual
25 buildings, then fine, that's what we -- we

1 would use. Or affidavits -- you know, we use
2 more than just -- you know, just the -- the
3 employment records. There are facilities --
4 what I said about Blockson -- we can't -- we
5 can't put people there so we just assume that
6 they -- that if you were at Blockson, you were
7 there, you know. Bethlehem Steel, we can't put
8 people in the mill that ran the 13 runs or
9 whatever it was. If you have employment
10 verified at Bethlehem Steel, you were there.
11 And so it's -- it's really a -- you know, it's
12 really a case by case basis.

13 **MR. GRIFFON:** That's -- that's -- the example
14 you gave, that's regardless of job title.

15 **MR. TURCIC:** Exactly. Exactly.

16 **DR. ZIEMER:** Mike Gibson.

17 **MR. GIBSON:** What did you say, Mark? I didn't
18 hear your question.

19 **DR. ZIEMER:** Regardless of job --

20 **MR. GRIFFON:** Regardless of job title in that
21 last case he's say-- even administra-- even if
22 a person had a title as secretary or clerk,
23 you'd say we don't know enough about --

24 **MR. TURCIC:** If they were at that facility --

25 **MR. GRIFFON:** -- it's a done deal. Right?

1 **MR. TURCIC:** That's it.

2 **MR. GIBSON:** You're saying it's a done deal, or
3 do you ask the person or -- an administrative
4 clerk --

5 **DR. ZIEMER:** No, in that case at Bethlehem
6 Steel, if they're in Bethlehem Steel --

7 **MR. GIBSON:** Well, I'm saying --

8 **DR. ZIEMER:** -- it doesn't matter what the job
9 title is.

10 **MR. GRIFFON:** Right.

11 **MR. GIBSON:** It doesn't matter what the job
12 title is.

13 **MR. GRIFFON:** But for other places, it does
14 matter. It depends on how we -- we --

15 **MR. PRESLEY:** Yeah.

16 **MR. GRIFFON:** -- develop it, you know.

17 **MR. GIBSON:** So like -- I mean you've got an
18 administrative clerk that works in a office
19 building, that's it. I mean it's full of --
20 you know, mahogany row, but you have
21 administrative clerk that works for a manager
22 in a radiation building who goes out and gives
23 jobs to the foreman every day --

24 **MR. TURCIC:** I underst-- yeah.

25 **MR. GRIFFON:** Yeah.

1 **MR. TURCIC:** And it depends on how you defined
2 a class, you know, what we would do.

3 **MR. GIBSON:** But --

4 **MR. TURCIC:** Exactly right. I mean if it's --

5 **MR. GIBSON:** But if a --

6 **MR. GRIFFON:** But then --

7 **MR. GIBSON:** I guess my question is, if DOL
8 looks at a job and it's something that -- like
9 you mentioned, cafeteria worker, or
10 administrative clerk, you don't just
11 necessarily assume they shouldn't have been
12 monitored.

13 **MR. TURCIC:** No, what we would do -- now you're
14 confusing -- you didn't ask the question about
15 monitored. You're -- you're -- you asked --

16 **MR. GIBSON:** (Unintelligible) was included.

17 **MR. TURCIC:** -- (unintelligible), Mike. You
18 asked coverage. If you're asking about, you
19 know, monitoring, we would have to look at the
20 case-specific, you know, situation. You know,
21 if it was a facility where there was a
22 administrative building and we knew that people
23 in that building, you know, weren't monitored
24 and shouldn't have been monitoring (sic), you
25 know, then we would -- we would go with that.

1 If it was the situation you're talking about,
2 situation like that, in most places, that would
3 be monitored and we would assume that the
4 administrative people would be monitored.

5 **DR. ZIEMER:** I think the --

6 **MR. TURCIC:** I don't think we've ever -- I -- I
7 -- I can't remember a case where -- to be quite
8 honest with you, where we have denied the case
9 because we said well, we can put you there but
10 we can't say that you should have been
11 monitored. I don't think there's ever been a
12 case -- I mean this --

13 **MR. GRIFFON:** But it -- yeah, do -- do you --
14 this is a broader question, but do you have a -
15 - you must have a logic tree that your claims
16 processors are working from, and is that
17 something that can be shared with the Board or
18 no?

19 **MR. TURCIC:** Well, the logic tree depends on
20 how --

21 **MR. GRIFFON:** Because there's --

22 **MR. TURCIC:** -- you define it.

23 **MR. GRIFFON:** -- there's all -- yeah, yeah, I
24 know.

25 **DR. MELIUS:** It's devel-- it's buil--

1 **MR. TURCIC:** Yeah.

2 **DR. MELIUS:** Yeah.

3 **MR. TURCIC:** That's why it's so important, you
4 know, and that's why I said, you know, at the
5 last time --

6 **MR. GRIFFON:** Yeah.

7 **MR. TURCIC:** -- I -- I met with you that by a
8 spatial determination is a lot easier than a --

9 **MR. GRIFFON:** But if -- if you do --

10 **MR. TURCIC:** -- a functional.

11 **MR. GRIFFON:** I mean I -- I -- I also get
12 concerned if we do the building-specific sort
13 of specificity in our write-up, if the only
14 information you have for that site for
15 individuals is job title, then you can have an
16 electrician that wa-- and you might even have
17 building. You might say the electrician was in
18 Building A, but if -- if -- and -- and maybe
19 your -- you -- you know -- I mean I guess I
20 would be concerned if you don't know enough
21 about the facility, you don't know if the
22 person worked in that maintenance shop the
23 whole time or if they went out to the other
24 buildings --

25 **MR. TURCIC:** Mark, we --

1 **MR. GRIFFON:** -- and there may be no records in
2 individual's record to show that.

3 **MR. TURCIC:** Even -- even if it's buildings --
4 okay? Even if it's buildings, then we would
5 always consider, you know, functions like
6 maintenance, electricians -- you know, things
7 like that -- we always assume that they might
8 have been assigned anywhere, and that gets
9 factored in. So more than likely what would
10 happen -- you know, I mean -- every way I -- I
11 can think that, you know, you could define a
12 class, what would happen with that class of
13 people would be this idea that, absent
14 information to the contrary, we would say that
15 these occupations are covered.

16 **DR. ZIEMER:** Mike, does that answer your
17 question?

18 **MR. GIBSON:** No, I think -- I'm still -- so you
19 basically have a set of job titles and, absent
20 any information -- if we go building-specific,
21 absent any information, you'd say yes, these
22 people are probably covered.

23 **MR. TURCIC:** That's what we did, and that's how
24 we'll be handling the later Y-12, exactly.

25 **MR. GRIFFON:** Except for --

1 **MR. GIBSON:** My point is, again, if it's even
2 building-specific, there's some sites that have
3 say administrative clerks, for example again,
4 that worked 40 hours a week in that rad
5 building for a manager who also has a --

6 **MR. TURCIC:** If -- if they worked in the rad
7 building, that was a covered building, they're
8 covered, no matter what their occupation was.

9 **MR. GIBSON:** But I -- I thought you just said
10 there was almost like a --

11 **MR. TURCIC:** No, I'm saying that -- I'm saying
12 for -- for occupations, but you can't put them
13 in that building. If you do it by building and
14 we can put them in that building, they're in,
15 no matter what occupation. But you take
16 somebody like a maintenance person who may not
17 be in -- you know, maybe we can't put him in
18 that specific building, but knowing that
19 maintenance people are assigned all over the
20 place -- absent information in the file, you
21 know, that they were somewhere else and not in
22 that building -- we would assume that they
23 could have been assigned in that building and
24 worked in that building.

25 **MR. GIBSON:** So an administrative clerk or

1 someone like that would have to put in their
2 affidavit or in their claim that they worked in
3 a rad building.

4 **MR. TURCIC:** Yeah, and then if they didn't, you
5 know, we still don't cut them off. We give the
6 opportunity for them to explain well, yeah, I'm
7 here -- my duties required me to go all over,
8 you know. I mean it's not like -- it's not
9 like you're cut off and have no opportunity.

10 **DR. ZIEMER:** Okay. Thank you. Jim, additional
11 question or --

12 **DR. MELIUS:** No, I'm sorry, I -- yeah, I guess
13 I --

14 **MR. GRIFFON:** Go ahead.

15 **DR. ZIEMER:** Well, now that he -- now that I
16 ask --

17 **DR. MELIUS:** Mark wanted to say something. Or
18 -- or is our process, in terms of getting input
19 from you and -- in terms of these issues -- I
20 mean -- and I think we've talked before, it's
21 certainly helpful to have somebody in --
22 involved from DOL as we're deliberating this,
23 particularly if we're -- I guess if we're
24 considering sort of a -- a non-building-
25 specific or what may be a problematic way of

1 making designation -- I'm particularly get
2 concerns when we start getting some of these
3 big sites that -- where we may not -- we may --
4 doing a very specific types of -- of SECs that
5 could very well be process-oriented or
6 something. I mean that may --

7 **MR. TURCIC:** Well --

8 **DR. MELIUS:** -- building -- I mean that -- that
9 we need to be careful about how we go forward
10 and -- you know, terms of making these
11 definitions and so forth.

12 **DR. ZIEMER:** Well, I think Pete --

13 **MR. TURCIC:** Yeah.

14 **DR. ZIEMER:** You said building-specific is a
15 little easier for you to administer.

16 **MR. TURCIC:** Yeah.

17 **DR. ZIEMER:** I think on the -- we had the --
18 what was the process, the -- at Los Alamos.

19 **UNIDENTIFIED:** (Off microphone) RaLa.

20 **MR. GRIFFON:** RaLa, yeah.

21 **DR. ZIEMER:** Yeah, the -- the RaLa, yeah, that
22 was a process-oriented definition. Is that --
23 that causes you more --

24 **MR. TURCIC:** Well, no, that was an area.

25 **DR. ZIEMER:** Oh, it also was co-- coincident

1 with an area, so it was a little easier.

2 **MR. TURCIC:** Yeah.

3 **DR. ZIEMER:** But you could have one described
4 in that way that maybe involved multiple parts
5 of the site --

6 **MR. TURCIC:** Yeah.

7 **DR. ZIEMER:** -- that's a little different, but
8 typically even there it brings certain
9 buildings into play.

10 **MR. TURCIC:** I -- I would suggest, Paul, that
11 maybe the process is disjointed. I mean you
12 really have two parts to the process. One,
13 what doses can't you reconstruct. Now once you
14 identify that, then you have a process of how
15 best to define the class so you cover the
16 individuals that were exposed to that dose, and
17 --

18 **DR. ZIEMER:** Well, in fact that's exactly the
19 issue we have on several of these. We've
20 identified, or NIOSH has identified, that they
21 cannot reconstruct internal thorium doses, for
22 example. Now, can you ex-- but to what extent
23 can you exclude others from that? In some
24 cases, not very well.

25 **MR. TURCIC:** Right.

1 **DR. ZIEMER:** On the other hand, like in General
2 Atomics, if you had your cafeteria worker and
3 you knew there was a cafeteria and it's not one
4 of those listed buildings, then you -- they
5 would have to show you that somehow their job
6 required them, for example, to deliver
7 sandwiches to the reactor building or
8 something.

9 **MR. TURCIC:** Exactly.

10 **DR. MELIUS:** Yeah.

11 **MR. TURCIC:** Exactly.

12 **DR. WADE:** One question, Pete. These words
13 that we bandy about that say "were monitored,
14 or should have been monitored," these words
15 give you difficulty? Should the Board steer
16 clear of those words? What do you -- what's
17 your thought?

18 **MR. TURCIC:** They -- they don't give us any
19 difficulty at all. Like I'm saying -- I mean
20 here -- here's where they came from. What it
21 came from was the original statutory SECs that
22 basically said that you were either monitored
23 or had an exposure similar to individuals who
24 were monitored. Well, that's totally
25 impossible to administer, you know, without a

1 policy. And so that policy is what got shifted
2 into monitored or should have been monitored --

3 **DR. WADE:** Just to --

4 **MR. TURCIC:** -- then assuming anyone who should
5 have been monitored under current day
6 requirements.

7 **DR. WADE:** A very specific example, if I might.
8 I mean on Allied Chemical, we have a definition
9 in front of us that says all AWE employees who
10 were monitored, or should have been monitored,
11 for exposure to ionizing radiation while
12 working at Allied Chemical Plant in Metropolis,
13 Illinois, period. Another way you could write
14 that is all AWE workers who worked at Allied
15 Chemical Plant.

16 **MR. TURCIC:** That -- they mean the same thing,
17 exactly.

18 **DR. WADE:** They mean the same thing.

19 **MR. TURCIC:** The "monitored and should have
20 been monitored" really plays a more important
21 role when you're talking about a DOE facility.
22 And the reason it comes there is you don't want
23 to drag in -- I don't think you're talking
24 about including the delivery of -- you know,
25 the person that -- that's coming in and -- once

1 a week and filling up the Coke machines.

2 **DR. WADE:** Uh-huh, right.

3 **MR. TURCIC:** And they typically wouldn't be
4 monitored, and so, you know, that's how -- how
5 that would be ex-- excluded.

6 **DR. WADE:** Just one more --

7 **MR. GRIFFON:** So you --

8 **DR. WADE:** -- questions --

9 **MR. GRIFFON:** -- you don't make a subjective
10 determination on monitored or should have been
11 monitored based on the current radiological
12 standards. You really just say that equals
13 presence.

14 **MR. TURCIC:** Yeah, exactly.

15 **MR. GRIFFON:** Okay.

16 **DR. WADE:** But now when Stu was talking to us,
17 he sort of raised this issue as an important
18 issue.

19 **MR. GRIFFON:** Yeah.

20 **DR. WADE:** And now I get the sense that maybe
21 it's not an important issue. So I just want to
22 make sure we're clear before the Board takes an
23 action.

24 **MR. HINNEFELD:** Well, I hate to -- am I on
25 here? I really hate to confuse the Board

1 'cause I'm so confused myself, but there are
2 clear differences between the Harshaw Plant and
3 the Allied Plant in terms of what we know and
4 what the condition of the plant was and things
5 like that, and I only pointed that out. I in
6 no way intended to infer that I have any
7 expertise at all in this area, how to
8 administer the class. I just thought that I
9 would point those out in my own way, and I
10 don't -- you know, this is not my bailiwick. I
11 believe I said that.

12 **DR. WADE:** Well, thank you. So -- so --

13 **MR. GRIFFON:** But -- but --

14 **DR. WADE:** -- Pete, in terms of Allied, if I
15 could finish, it makes no difference to you, in
16 terms of the way you would move forward,
17 whether those words appear or not.

18 **MR. TURCIC:** Not at Allied, no.

19 **DR. WADE:** Okay. Thank you.

20 **DR. ZIEMER:** So "monitored, or should have been
21 monitored" really refers to the -- the people
22 who work there, as opposed to somebody coming
23 in casually --

24 **MR. TURCIC:** Exactly.

25 **DR. ZIEMER:** -- a visitor or --

1 **MR. TURCIC:** Exactly.

2 **DR. ZIEMER:** Yeah. Here comes Jim. Jim, did
3 you have another --

4 **DR. LOCKEY:** Yeah, I just -- I just want to
5 make -- make it so it's clear in my mind. If -
6 - if -- in the General Atomics report, if NIOSH
7 says Building 30, Building 31 and Building 26,
8 27 should be included in the class, you don't
9 go back and second-judge that. You don't go
10 back and say we're going to look at those
11 buildings separately. You accept that -- is in
12 the petition as people that should be included
13 in that class. Is that correct?

14 **MR. TURCIC:** That's exactly right. Then --
15 then what we do is we start looking and see --
16 okay, now how and what information do we have
17 to say they worked in, you know, any of those
18 buildings. And then that's an empirical type
19 analysis for a while until we can figure out
20 what is available. We may come to the
21 conclusion that we can't separate them out and
22 we, through policy, say, you know, presence
23 equals -- in those buildings, that presence at
24 this facility equals those buildings. There
25 may be time frames, you know, maybe at some

1 time frames you can split it up and some time
2 frames you can't. But no, we don't -- we
3 administer whatever the Secretary of HHS
4 issues.

5 **DR. ZIEMER:** Larry.

6 **MR. ELLIOTT:** Pete, I think it might be helpful
7 for the Board and for the public at large to
8 know that each one of these classes that is
9 designated by the Secretary of HHS -- once you
10 receive that class designation, you process
11 what I think you call a Technical Bulletin that
12 goes out to your claims examiners on how to
13 administer that class --

14 **MR. TURCIC:** Right.

15 **MR. ELLIOTT:** -- and there are -- I don't know
16 how many of these have been generated up to
17 this point in time, but I'm aware of the ones
18 for Y-12, Mallinckrodt, et cetera. Maybe
19 that's something that you might want to make
20 available to the Board. I don't know how --
21 how you'd do that, but these exist -- I mean
22 they may --

23 **MR. TURCIC:** They're on our web site, Larry.

24 **MR. ELLIOTT:** Okay, they're on the web site.

25 **MR. TURCIC:** Yeah, they're on our web site, but

1 I'd be -- I'd be glad to walk you through, you
2 know, each one of them, give you copies of each
3 one of them, the directions that we give to our
4 claims examiners --

5 **DR. ZIEMER:** Maybe an -- maybe an example next
6 time would be useful --

7 **DR. MELIUS:** I -- I've got an example with me,
8 if I can -- someone wants to make a copy and
9 distribute it.

10 **DR. WADE:** Pete, one --

11 **DR. MELIUS:** I've got -- I actually -- a couple
12 of them with me, so...

13 **DR. WADE:** One more very important issue for at
14 least me to understand, and I -- and I think
15 maybe the Board, is this issue that we've been
16 talking about recently of what NIOSH can do and
17 what they can't do. So for example, let's take
18 occupational medical dose where NIOSH said we
19 can do that.

20 **MR. TURCIC:** Yeah.

21 **DR. WADE:** Is it important that what they can
22 do be included in the designation?

23 **MR. TURCIC:** Makes it a lot easier to -- for
24 claimants to understand. You know, if -- if
25 the designation comes out and says all we can

1 do is medical X-rays, then if it's -- you know,
2 if that's included, that makes it a lot clearer
3 to the claimant when they get a dose
4 reconstruction for a non-specified cancer, you
5 know, only based on medical X-rays.

6 **DR. WADE:** So if NIOSH is saying, for example,
7 as we've done today, that we can do all
8 external dose, we can do internal for uranium,
9 we can do occupational medical, all of that
10 should be in the designation that the Secretary
11 issues and therefore in the Board's
12 recommendation to the Secretary. Okay. Thank
13 you.

14 **DR. ZIEMER:** Other comments? Jim, did you have
15 an additional comment? No, okay.
16 Mr. Miller?

17 **MR. MILLER:** Richard Miller. I just have a
18 question about this interchange here 'cause
19 this is a very important issue, and I want to
20 make sure that when you nodded, Pete, that we
21 understood what you were saying. When you said
22 a moment ago, as I understood it, well, it's
23 very important for us to put in the designation
24 what dose we can reconstruct, so let's go
25 through this -- you know, we can do all the

1 external, then we get to the internal, then you
2 say we should sort out which internal dose we
3 can reconstruct and which internal dose we
4 can't reconstruct. Okay, now we're getting
5 into process-specific, not building-specific,
6 designations. So now we're into that tricky
7 issue we got into with Y-12 where they say you
8 can reconstruct the uranium dose but not the
9 thorium dose. So then the question is who's a
10 thorium worker and who's not a thorium worker.
11 And then you have the great irony, which is
12 without being able to say who's a thorium
13 worker and who's not a thorium worker, or who
14 should have been monitored for thorium or not
15 monitored for thorium, you'd wind up, I would
16 think, with almost an administratively-
17 impossible class to adjudicate unless you
18 provide broad presumptions. And so the
19 question is, why would you want to narrow the
20 isotopes that you can monitor or not monitor
21 for in a class and -- and -- if you want to
22 have clarity about the boundaries?

23 **MR. TURCIC:** I think -- I think you're -- you
24 know, I -- I think you're looking at this -- I
25 -- I don't think the way you're looking at

1 this, Richard, is the way it works.

2 **DR. ZIEMER:** No, Pete -- Pete wasn't saying
3 that they --

4 **MR. TURCIC:** I'm saying regardless --

5 **DR. ZIEMER:** -- pay attention to that. Pete
6 was saying that that helps the claimant
7 understand, if they go back and NIOSH says, for
8 example, we can only reconstruct your medical
9 dose and --

10 **MR. TURCIC:** Richard, just because the
11 designation -- let's say the designation said,
12 you know, includes, you know, the -- the write-
13 up says here's what we can do, that doesn't
14 take it away if you meet the class definition
15 based on that facility, regardless -- if you
16 have a presumptive cancer, if you have one of
17 the 22 cancers, you're awarded benefits. Where
18 that becomes important is when we take those
19 who don't have one of the 22 cancers, we send
20 it for a dose reconstruction, it becomes
21 important so that the claimant understands
22 okay, in this case they did include the
23 internal uranium, but they didn't include
24 anything for the thorium; so my exposure was
25 higher, but it did include the inhalation of

1 the uranium.

2 **MR. MILLER:** Okay. Have you issued the
3 guidance yet for the second Y-12 class, the
4 claims examiner guidance?

5 **MR. TURCIC:** We're in the process of doing it
6 now.

7 **MR. MILLER:** Okay, 'cause that would help
8 understand exactly the explanation here, 'cause
9 what -- 'cause when we looked at the earlier Y-
10 12 class -- of course you weren't grappling
11 with that issue 'cause it was only uranium
12 enrichment in that time period, but -- but what
13 -- what was a bit confusing there was that, for
14 example, those who were not presumed to be in
15 the Y-12 Calutron operations were construction,
16 were machinists, were security guards, for
17 example, where the burden of proof is then
18 going to shift to them to sort of show they
19 were in there. And I guess the question that I
20 had was is there an irony here that's been
21 created? And let me just pose the question.
22 The -- the irony that I'm questioning is, is it
23 possible that we could have people who were put
24 in a class because there's not enough data with
25 which to reconstruct their dose, regardless of

1 whether it's internal or external, but for
2 which there's also insufficient data for them
3 to put them in the Calutron building or in the
4 RaLa area. In other words, could you have the
5 irony that you could be put in a class, but
6 lack the proof to show you were physically
7 there 'cause the same lack of data catches you.

8 **MR. TURCIC:** Any time you draw a line, Richard,
9 there's going to be people on one side of that
10 line or the other. I mean any line that you
11 draw, whether it be --

12 **MR. MILLER:** So are you saying that the
13 incompleteness of data about being able to show
14 you were in Building X -- in other words,
15 affirmative proof evidence that you were there
16 -- construction workers particularly face this
17 challenge.

18 **MR. TURCIC:** Okay.

19 **MR. MILLER:** So a construction worker says I'm
20 in the RaLa area 'cause he files a claim, but
21 he has no contemporaneous evidence to establish
22 proof that he or she was there, are they in the
23 RaLa area or out of the RaLa area? That would
24 be the kind of question I'm posing.

25 **MR. TURCIC:** We -- we haven't -- on that one, I

1 -- I can't say because, you know, we haven't
2 worked out the specifics and don't know -- you
3 know, there are other records. Like for
4 example, we contract with the Center to Protect
5 Workers Rights. Lot of times we can't put a
6 construction worker -- you know, all we know
7 and all the survivor knows is that a
8 construction worker worked for some
9 construction company. Now the records we get
10 from Center to Protect Workers Rights would
11 come back that maybe dispatch workers that show
12 that okay, this (unintelligible) -- this
13 individual worker was dispatched to Building 92
14 -- 9202 at Oak Ridge. So I mean it just -- it
15 -- it's all --

16 **MR. MILLER:** But if it -- but if it only says
17 I'm going to Oak Ridge and not 9202, what do
18 you do?

19 **MR. TURCIC:** Well, it depends on -- okay, you
20 know who the construction company was. If that
21 construction company had a job during that time
22 period there, we would assume that, okay, he
23 could have been assigned there.

24 **DR. ZIEMER:** Well, these -- these are fine
25 points, but we understand the general issue

1 here and I think that's helpful, and we need to
2 move on and not linger on the -- 'cause these
3 are case by case things.

4 **MR. TURCIC:** Yeah.

5 **DR. ZIEMER:** I think we understand the
6 principle. Yeah.

7 **MR. TURCIC:** Richard would -- Richard would be
8 a hell of a claims examiner.

9 **DR. WADE:** It is an evolving art that we have
10 to continue to --

11 **DR. MELIUS:** Is that a job offer?

12 **DR. ZIEMER:** Okay, Mark has a comment or
13 question.

14 **MR. GRIFFON:** Yeah, just a -- just one more
15 thing, and -- and I think the Y-12 example
16 might actually clarify this. I agree with
17 Richard, I was going to ask where that was.
18 But the -- the "monitored, or should have been
19 monitored," I think we just said that eq-- that
20 equates presence.

21 **MR. TURCIC:** That's (unintelligible) --

22 **MR. GRIFFON:** But if -- but if we have a write-
23 up where we have external versus internal and
24 we say monitored or should have been monitored
25 for internal, then that doesn't necessarily

1 equate presence, does it, 'cause you can do
2 external. You're -- you're split-- it's not
3 just simple presence at that point, is it, or -
4 - I guess it'd be a site-by-site basis.

5 **MR. TURCIC:** I think it would be the same
6 thing. I mean --

7 **MR. GRIFFON:** Still just presence.

8 **MR. TURCIC:** Yeah.

9 **MR. GRIFFON:** And then what if you said
10 monitored or should have been monitored for
11 thorium? That, in my mind, doesn't necessarily
12 mean just presence.

13 **MR. TURCIC:** It would be the same -- it would
14 be the same thing. I mean if -- what it does,
15 Mark, is if you look at the thorium, okay, in
16 that example, that at least gives us a basis to
17 start saying well, we know that these
18 occupations -- there were -- there was internal
19 monitoring. Not for thorium, but there was
20 inter-- so that gives a conclusion that here's
21 a whole bunch of occupations that you know, you
22 know, fit into that category. And then -- so
23 it's really, you know, doing it piece by piece
24 and...

25 **DR. ZIEMER:** Okay, I think probably we've

1 exhausted this issue for now. I think we have
2 a feel for the issues. We'll look forward to
3 following up on some of these in the future.
4 Thank you very much, Pete.

5 We do -- we are going to recess shortly. A
6 couple of housekeeping things. I want to
7 remind Board members that one thing on our
8 docket will be approval of some minutes
9 tomorrow. You have them in your packet and I
10 just want to give you a heads-up to be prepared
11 to act on those minutes. If you haven't
12 already had a chance to read through them, that
13 will be your task for this evening.

14 We also have the public comment that begins at
15 7:30. Lew, do you have any additional items to
16 --

17 **DR. WADE:** Well, only to thank Pete, and this
18 issue of the writing of designations is really
19 a developing art, and -- and I think we need to
20 learn to do it better and I think you've been
21 immensely helpful, Pete, in terms of getting us
22 there.

23 **DR. ZIEMER:** Okay. Thank you. With that,
24 we'll recess until 7:30. Thank you very much.
25 (Whereupon, a recess was taken from 5:06 p.m.

1 to 7:30 p.m.)

2 **PUBLIC COMMENT**

3 **DR. ZIEMER:** Actions were taken earlier today
4 by the Board, particularly with respect to the
5 Blockson SEC petition, so let me briefly
6 describe what happened earlier today.
7 The -- the staff members from NIOSH presented
8 what is called the Petition Evaluation Report.
9 Hopefully those of you from Blockson have had a
10 chance to see that report. Then the
11 petitioners also had a number of
12 representatives here to speak on their behalf
13 and -- and raised a number of points. Amongst
14 those who also spoke on behalf of the
15 petitioners was Senator Obama, who raised a
16 number of points, as well.
17 The -- the issues raised by both the Senator
18 and the other petitioners -- a number of those
19 issues the Board discussed in some detail, and
20 after lengthy discussion there was a formal
21 motion that passed by the Board to postpone the
22 decision on Blockson until several of the
23 issues that had been raised by the petitioners
24 and by the Senator could be addressed. These
25 included the following: A clarification of the

1 -- what is called the source term, or the
2 amounts of uranium or other activity present on
3 the site. Secondly, a request that there be a
4 formal worker outreach meeting held by NIOSH to
5 gather formally information from Blockson
6 workers, and NIOSH has committed to doing that.
7 Thirdly, amongst the points of the motion, that
8 the Board establish a working group that would
9 work together with the Board's contractor,
10 SC&A, to clarify some of the other issues that
11 had been raised, most particularly the issue of
12 radon exposures, but also some other related
13 possible issues that had been questioned by the
14 petitioners.

15 So the status at the moment then is that a -- a
16 final decision on the recommended SEC
17 evaluation by the -- by the NIOSH staff has
18 been delayed at least until the next Board
19 meeting that we -- we don't have a definite
20 timetable yet because it's unknown how long it
21 will take to gather all the information, but --
22 and we're hoping to do -- and some of the
23 petitioners have helped -- have agreed to help
24 us try to locate some of this information, as
25 well. But pending the obtaining and evaluation

1 of the information that the Board wishes to
2 examine prior to making a decision, that
3 decision will be at least temporary --
4 temporarily delayed. And I might point out
5 that -- that Senator Obama himself had
6 requested such a delay.

7 So with that as background now, we will open
8 our public comment session. This is not
9 restricted to only the Blockson issue. There
10 are -- actually we have a number of petitions
11 and -- and -- petitions and dose reconstruction
12 issues before the Board and some -- some site
13 profile issues, as well. And we have made a
14 commitment to one individual to speak to -- in
15 the public comment session to speak to the
16 Board by phone, and that is Ms. Terrie Barrie
17 from the Rocky Flats area, Denver, and I need
18 to find out if Terrie Barrie is on the line.
19 Terrie, are you there?

20 **MS. BARRIE:** Yes, Dr. Ziemer, I am.

21 **DR. ZIEMER:** Can we raise the volume there a
22 little bit? Terrie --

23 **MS. BARRIE:** Can you hear me?

24 **DR. ZIEMER:** -- I think we hear you. Could you
25 try again?

1 **MS. BARRIE:** Dr. Ziemer?

2 **DR. ZIEMER:** Yes. Terrie, is that you? If --
3 if -- is that Terrie? Terrie, can you hear us?

4 **MS. BARRIE:** Hello?

5 **DR. ZIEMER:** We're not hearing you. Hang on.
6 And then -- do I need to move -- Terrie, can
7 you hear me now?

8 **MS. BARRIE:** No, I can't. I can barely hear
9 you, Doctor.

10 **DR. ZIEMER:** Okay. Well, we can hear you now,
11 Terrie, so if you would proceed, just speak
12 into the phone and we're prepared to hear your
13 remarks.

14 **MS. BARRIE:** Okay. Thank you so much. Good
15 evening, Dr. Ziemer, members of the Board. My
16 name is Terrie Barrie and I'm with the Alliance
17 of Nuclear Worker Advocacy Groups. And once
18 again I'd like to extend my appreciation to
19 you, Doctor, for allowing me to call in my
20 comments tonight, and to NIOSH for arranging
21 this call.

22 One week ago the House Judiciary Subcommittee
23 on Immigration, Border Security and Claims held
24 their fifth oversight hearing on EEOCAPA (sic).
25 Shelby Hallmark of the DOL's Office of Worker

1 Compensation Program testified that the motive
2 for DOL's involvement in technical documents
3 was to ensure that NIOSH's program was
4 administered in a fair and consistent manner.
5 I am afraid that this policy has failed with
6 the Rocky Flats petition. For instance,
7 workers at the Y-12 facility was awarded SEC
8 status if they worked with thorium during
9 certain years. In that petition NIOSH asserted
10 that they could not reconstruct dose because
11 they did not have access to enough data.
12 NIOSH's evaluation report did identify years,
13 process and buildings where thorium was present
14 at Y-12, as well as a broad guesstimate of the
15 amount of thorium there. Generally thorium was
16 used at Y-12 for research and development
17 activities.
18 NIOSH determined that this information was not
19 enough to reconstruct dose with reasonable
20 accuracy. As far as I can tell, NIOSH has less
21 information on thorium for Rocky Flats facility
22 than they did for Y-12, yet they claim they can
23 still reconstruct dose for thorium workers at
24 Rocky Flats. NIOSH concedes that there was
25 light machining performed at Rocky Flats, as

1 opposed to research and development activities
2 at Y-12. One method NIOSH proposed to
3 reconstruct dose was to utilize gross alpha
4 readings. Yesterday the idea of treating
5 thorium machining the same way they do uranium
6 machining in the TBDs was introduced.
7 I ask again, why were these methods not applied
8 to the Y-12 workers if gross alpha data and
9 uranium machining data was available? This is
10 not consistent nor fair.
11 During the debate of the IAAP SEC petition --
12 that's the Iowa Army Ammunition Plant -- an
13 issue was raised on the radon levels NIOSH used
14 for that facility. NIOSH chose to use data
15 from the Pantex plant, which was a lower level
16 than what was actually at the Iowa facility.
17 But the rewritten introduction for the Rocky
18 Flats site profile issued November 30th of this
19 year states that, and I quote, (reading)
20 Radiation from naturally-occurring radon
21 present in conventional structures, end quote,
22 are not considered occupational exposures. And
23 now I understand that radia-- radon exposures
24 is being considered for Blockston (sic).
25 Iowa had similar levels of naturally-occurring

1 radon at Rocky Flats. How could radon levels
2 be included for one facility and not for Rocky
3 Flats? This, too, is not fair nor consistent.
4 These two examples demonstrate that NIOSH is
5 not being fair and consistent in their
6 evaluations of the Rocky Flats SEC petition.
7 Serious doubts remain among the Rocky Flats
8 claimants on their ability to reconstruct dose
9 with reasonable accuracy. What is fair for one
10 site should be applied to other sites. Unless
11 of course the records definitively prove
12 otherwise.

13 Rocky Flats claimants feel that they have not
14 had a fair shake in this process. The
15 affidavits supplied with the petition and
16 public comments are termed "allegations,"
17 whereas NIOSH's explanations are expected to be
18 accepted as the truth.

19 Time and cost involved for evaluating the Rocky
20 Flats SEC petition has been raised many times.
21 Two years, or almost two years, is a long time.
22 Last month's denial of access to the O drive
23 delayed progress of SC&A's investigation. At
24 one working group meeting I heard NIOSH or the
25 ORAU team member ask if the time spent on the

1 thorium issue was worth it as perhaps only 20 -
2 - or 12 workers were involved. It certainly is
3 worth it if any one of those 12 workers develop
4 a compensable cancer.

5 Who is suffering here from this elongated
6 process? The claimants, the folks who thought
7 that working at the Rocky Flats facility was a
8 patriotic duty, whose bodies were bombarded
9 daily by high levels of radiation. And at
10 Rocky Flats, those levels were high.

11 I hope the Board will consider what is fair and
12 what is consistent when deciding on the Rocky
13 Flats petition. I look forward to the February
14 meeting.

15 On another note, I do want to thank NIOSH for
16 appointing Denise Brock as the ombudsman for
17 dose reconstruction claims. I know she will do
18 well. I urge NIOSH to update their web site as
19 soon as possible to post her contact
20 information and responsibilities so that any
21 claimants who have problems will have a point
22 of contact.

23 Thank you again for call-- for allowing me to
24 call in this comment.

25 **DR. ZIEMER:** Thank you very much, Terrie. We

1 appreciate your comments.

2 We'll continue now with comments from those
3 here in attendance. I may have trouble reading
4 some of your names, so forgive me if I don't
5 pronounce them correctly, and I'll just take
6 them in order as they have appeared on the
7 sign-up sheet.

8 First Joshua -- is it Lott? Joshua Lott? It
9 looks like L-o-t-t.

10 (No responses)

11 No? Okay, let's go on -- and this is someone
12 who's with Reuters.

13 (No responses)

14 No? Okay. Now the next one I'm really having
15 trouble reading. It looks like it could be --
16 is that a -- what do you think? Is that
17 Charles? Last name looks like it begins with
18 an O.

19 **DR. WADE:** I would guess Charles S. Otere --
20 Oter?

21 (No responses)

22 **DR. ZIEMER:** Not close. We're obviously not
23 reading it well. Maybe we'll --

24 **DR. MELIUS:** Who else do you have?

25 **DR. ZIEMER:** We may skip ahead and then if you

1 feel like you were left out, we can come back.
2 I'm sorry.

3 George Luber? I think George was with us
4 yesterday and -- welcome back, George.

5 **MR. LUBER:** George Luber, and I thank you for
6 leaving me speak today's -- this evening. I'm
7 going to explore this book that was given to
8 you yesterday. The -- I take my glasses off to
9 read. I read the whole document this morning
10 and these are some of the things that I -- I
11 came up with. And I numbered each page,
12 starting with the first white page, which is
13 numbered one, and numbered them from there on
14 back.

15 Page number 12, internal exposure to radiation.
16 When you -- we talk radiation, we don't all
17 necessarily speak of the two Betatrons. We
18 also talk about the cobalt-80 unit, the small
19 cobalt unit, and there was a couple of other
20 radioactive sources that I was not real
21 familiar with because I was not licensed to use
22 them.

23 On page 18, persons present, Joe Poole on the
24 Betatron controls, which is on page 18, which
25 is this picture here. We're shooting the axle

1 housing, of which there were four, for the
2 largest strip mine crane in the world. Joe's
3 on the controls of the Betatron. I'm checking
4 the distance on the casting, and the operator
5 was Steve Conage* and he's on the end of the
6 casting. If you look at me real close, I'm
7 filthy dirty. I'm coal black 'cause I crawled
8 in that axle on my hands and knees. This is
9 one of the dirtiest, filthiest castings we ever
10 worked on. The portion we were shooting was
11 the connection between the axle and gear box.
12 That was an hour to an hour 15 minute, full
13 speed on the Betatron. If we were lucky, we
14 got six shots in eight hours.

15 On page 23 -- on page 23 Rudy Willey* and
16 myself were shooting a Westinghouse valve.
17 Rudy was my wet -- my mentor. He's being
18 treated for lung cancer right now.

19 On pages 27 and 28, these cassettes which are
20 pictured are 14 by 70. They were loaded with
21 multiple speeds of film for areas of multiple
22 thicknesses. In the case of the shot exposure
23 site, the shot time would have been in
24 excessive (sic) of one hour at full speed of
25 the Betatron. In the case of this casting, the

1 same cassette -- or the same cassettes have
2 been reloaded and used two or three times in
3 the same eight-hour shift. Now these are
4 stainless steel, and I think there's some term
5 that the types of metal in the cassette also
6 become radioactive, so we guys handled these --
7 these cassettes, the same cassettes, many times
8 in eight hours. The next shift used the same
9 cassettes and the next shift used the same
10 cassettes -- same cassettes on the following
11 day, same cassettes. So some of these -- some
12 of these metal cassettes can -- can be -- could
13 have been hotter than a firecracker.

14 On page 31, active beta material and removable
15 contamination. In my case, and many other of
16 my fellow department persons, would work 16-
17 hour days, eight hours on the Betatron, eight
18 hours out on the floor where we did magnaflux
19 work, spot check weldings, so on and so forth.
20 The -- out on the report -- repair floor where
21 the chipping, burning, grinding and welding
22 were done in filthy, dirty working conditions.
23 Number 9 building would be cleaned with
24 electromagnet hooked to the crane and drug back
25 and forth to pick up the metal so the janitor

1 could sweep the floor. It was not uncommon to
2 see six inches of trash and dirt on the floors.
3 If we needed to move a magnaflux machine, which
4 has -- what should have been a moveable, by
5 hand, machine, we had to get a crane to pick it
6 up and move it because you couldn't move it
7 with so much dirt and dust and filth on the
8 floor. By the same token, it wasn't uncommon
9 to see trash barrels catch on fire because they
10 were so full the janitors couldn't get to them
11 to empty them. So when you talk about the
12 filthy, dirty working conditions and the
13 radioactivity that was produced in the
14 Betatrons, and the castings that moved all over
15 8, 9, 10 building, 6 building, it pretty well -
16 - that dust and dirt was carried, radioactive,
17 all over the plant. This is one thing that we
18 need to understand.

19 Westinghouse turbines would have anywhere from
20 200-plus shots on a green shot -- on a green
21 casting. The casting may come back into the
22 Betatron five or six times for repair checks of
23 the individual shots that were repaired. So
24 when you talk about dust contamination, et
25 cetera, with the casting going in and out of

1 the Betatron, where did all this dust go?

2 Especially us magnaflux guys.

3 When ma-- maybe I need to explain what

4 magnaflux is. It's nothing more than two prods

5 set on a casting and you magnetize a given area

6 with two prods. You spray this powder on there

7 and if there's a crack -- like you can do with

8 most anything -- that powder would form on the

9 crack because that's the -- that was the

10 jumping point between the two poles. And when

11 we get finished, we take an air hose and blow

12 it off, all over the plant. So when you --

13 when you talk about radiation exposure with the

14 castings going in and out of the Betatron,

15 being dirty with metal dust, and then we blow

16 it off out in the plant, where does this dust

17 all go?

18 Rudy -- Rudy -- okay, I'm going to give you my

19 written presentation here and this is a diagram

20 of the entire plant. I don't know if you

21 gentleman have them or not, but this --

22 **DR. ZIEMER:** Is that in the book we got, or is

23 this --

24 **MR. LUBER:** I don't think so.

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

1 in the first book, though? It's not in --

2 **MR. LUBER:** It might have been in the first
3 book, yeah.

4 **MR. CLAWSON:** (Off microphone) (Unintelligible)

5 **MR. LUBER:** But given -- given the -- the time
6 period from the cleanup in the new Betatron and
7 the old Betatron, 20 years after the plant was
8 closed down and there was still radiation
9 present, to me brings up a big question mark.
10 How much radiation was there really there when
11 the plant closed? Knock on wood, I'm in pretty
12 good shape yet. Maybe I'm one of the lucky
13 ones. That's the end of my comment.

14 **DR. ZIEMER:** Thank you. George, when -- when
15 you and your colleagues were doing the
16 radiographs, and I think you describe them as
17 being as long as one hour or greater, where
18 were you located relative to this -- the
19 Betatron target? Did they move -- were you
20 moved behind any shielding materials, or just
21 moved away some distance, or what --

22 **MR. LUBER:** The -- the shooting room in both
23 Betatrons was in a -- well, shall we say a pea
24 fashion. You had a big shooting room with a
25 rail transfer car coming in on one end, but we

1 sat in the control room, which was on the -- in
2 the corner of the L of the casting room and the
3 transfer area. The -- there again -- I'll give
4 you one more example.

5 The one day I was operating I came in at 3:30
6 in the afternoon. I made a couple of shots,
7 short shots. And when I came back in I noticed
8 there's a pallet of film sitting here in the
9 shooting room, right next to the rail -- or the
10 transfer tracks. And I guess there was
11 probably 30 or 40 boxes of X-ray film on that
12 casting -- or on that pallet. So I called the
13 foreman and had him come and get it out of
14 there. That film wasn't supposed to be in
15 there.

16 So there was one of the boxes that was -- we
17 opened and checked the film to see if it was
18 damaged in any way. One of the boxes we
19 opened, nearest to the exposure room, the edges
20 of that film was burnt, around the edges of the
21 boxes, sitting probably 50 feet away from the
22 Betatron. Okay. How far does this radiation
23 go in that building when that cassette was --
24 or that pallet of film was sitting 50 feet away
25 and it was burnt around the edges. The company

1 went ahead and used it because it was only
2 damaged around the edge.

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

4 **MR. LUBER:** But it leaves big question marks.

5 **DR. ZIEMER:** Yeah.

6 **MR. LUBER:** The same way -- one of the guys I
7 was working with who was a -- had authority to
8 use an 80-curie source of cobalt, and we shot
9 the weld prep of the channel head, which is the
10 cap of a nuclear power plant. You shoot this
11 complete weld prep 42-inch -- or 42 film around
12 the edge, flex film; you tie it with a strap,
13 you set the cobalt unit up in the middle and
14 you shoot all 42 shots at one time. The
15 operator wouldn't block the case. The controls
16 were in the operating room. But anybody'd
17 turned that crank in the shooting -- in the
18 operating room, we'd have been exposed. I
19 chewed his ass out and he was unhappy. But 80-
20 curie source is about as big as a pea. A
21 lethal dose is three minutes. Three minutes.
22 You don't die tomorrow; you die six months
23 later after you suffered for six months.
24 So when you talk about all this radiation and
25 all the dust and dirt that was in the plant, it

1 gets to be pretty scary. And like I say, I
2 think I'm one of the lucky ones that I haven't
3 -- doesn't have cancer yet.

4 One of the other things when -- when working in
5 magnaflux, which is metallic dust, you didn't
6 wear a shirt like this in the summertime
7 because you could take many baths as you want,
8 showers or whatever, but if you sweated, this
9 shirt would turn rusty. This was metal dust
10 that was in your pores that you could not wash
11 off. It was also radioactive. So there's --
12 there's lot more questions here than there are
13 answers.

14 **DR. ZIEMER:** Very good. Thank you, George.
15 Appreciate it.

16 **MR. LUBER:** Thank you.

17 **DR. ZIEMER:** Lois P-i-r -- P-i-r -- is Lois --
18 any -- any Loises here? How did we get so many
19 --

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

22 **DR. ZIEMER:** I have you separately, Louise. I
23 -- I have your name on here, but this is --
24 this is a Lois.

25 **UNIDENTIFIED:** (Off microphone)

1 (Unintelligible)

2 **DR. ZIEMER:** This is definitely a Lois -- or it
3 could be Luis, I suppose, who -- who identifies
4 herself as a claimant -- looks like P-i-r-c.
5 Okay, let's -- let's go on. Mary Beth Charley,
6 and Mary Beth was with us --

7 **DR. WADE:** Spoke earlier.

8 **DR. ZIEMER:** -- yesterday, but is Mary Beth --

9 **DR. WADE:** No, she spoke today, just before the
10 break.

11 **DR. ZIEMER:** Oh, she's the one who spoke before
12 the break, yes, so we have her already. How
13 about Mary Gates -- perhaps it's Mary Lou
14 Gates?

15 (No responses)

16 Hmm, okay. How about Rosemary Bell Malone?

17 (No responses)

18 Have we lost that many that fast? Okay. Bev
19 Marcoski? Yes, Bev -- and Bev we've had
20 before. She's still here. Okay, Bev.

21 **MS. MARCOSKI:** Actually I came back. I had to
22 go home and work out and air my brain after all
23 those tough sessions, so --

24 **DR. ZIEMER:** Thank you for coming back, so...

25 **MS. MARCOSKI:** Again, Bev Marcoski. My father

1 worked for Blockson Olin Chemicals. I had a
2 few more thoughts. A lot of these things I'm
3 going to present I have talked to Mr. Thomas
4 about -- Tomes, however you say his name -- and
5 I addressed a couple of memos to him directly.
6 I'd like to talk about the general assumptions
7 in the Technical Basis Document versus speci--
8 being more specific, specificity. And I have
9 about seven points I want to make, and I'm
10 going to be very brief, and they relate more to
11 my father's job or occupation.
12 So point one -- and some of these things have
13 been said before -- is the 2,000 hour
14 assumption in the SEC document and in the
15 Technical Basis Document 2. Basically we all
16 know that's 40 hours a week times 50 weeks,
17 allowing for about two weeks vacation. In my
18 father's case I have his pension master, and I
19 have the last six years of how many hours that
20 he worked overtime, and overtime is something
21 that he did frequently that I do remember. He
22 had a max of 2,603 hours. That 600 out of
23 2,000 is roughly a third more time spent
24 working routinely. Again, as we've talked
25 before, the data is sketchy. It's only the

1 last six years of his employment, through 1982.
2 Going before that it's not specific how many
3 hours worked in a year. So again, there's
4 general assumptions made on the 2,000-hour work
5 year.

6 Point two deals more specifically as his --
7 what he did. He was a handler of the drums.
8 He was a loader, mover of these materials in
9 Building 55, so he actually touched those
10 drums. And it was brought up earlier by Mark
11 Griffon that that's 150 millirems of exposure
12 you're talking, versus two millirems at one
13 foot away times 40 hours. So again, not
14 specific enough for what he did to get an
15 accurate calculation on exposure.

16 Third, in his later years with Olin Chemicals,
17 he was a welder. They chose type M wave. I
18 believe there's F, M and S are the choices for
19 the radiation, and I did talk to Mr. Tomes
20 about this and he said M was their choice. In
21 the Technical Basis Document it says that
22 there's a type S wave that has to do with high-
23 fired materials. The type S wave leaves the
24 lungs much more slowly than the type M waves.
25 Again, being more specific to my father's job

1 as a welder welding with pipes that have
2 phosphoric acid in them, I'm not sure that's
3 specific enough to his job type just to assume
4 type M versus type S 'cause he was working with
5 high-fired materials.

6 Again, point number four, just to get
7 technical, shoveling is not used in Technical
8 Basis Document 2. They assume a hopper, based
9 on what other plants used, and then -- but they
10 have people stating that sometimes they thought
11 it was shoveled, the uranium or the yellow--
12 yellowcake, so they kind of contradicted
13 themselves (sic) in the SEC petition this
14 afternoon, saying they used shoveling. But if
15 you read Technical Basis Document 2, page 7 of
16 27, it shows that they assumed a hopper.

17 I guess point five, again I touched on the
18 radon. I don't think I need to go into a lot
19 of detail. Again, it was calculated in
20 Technical Basis Document for 1952 to 1962.
21 There was nothing given for its association
22 with the residual contamination. Again, my
23 father worked there for 30 years, so that's 20
24 more years of exposure.

25 Point six, they assume these were production

1 workers, and the assumption that goes with that
2 is light work. And along with that is another
3 assumption of how much picocuries a day. I
4 question that assumption, again, with Mr. Tomes
5 in my one-on-one memos to him. It was a .2
6 picocurie a day based on 70 percent light
7 exercise for the production workers. Again,
8 not specific. My father was, again, I would
9 call a laborer or a heavy worker, moving drums
10 that could have weighed 1,000 pounds, and
11 welding equipment that weighed probably well
12 over 100 pounds. That categorizes as heavy
13 work and that would increase the respiration
14 intake along with this, but it wasn't accounted
15 for. Again, general, not specific to the job
16 task.

17 Point six -- that was six; seven, the data --
18 the bioassay early in production, the
19 yellowcake -- or the exposure was much more
20 dangerous as production went on, and I'm
21 wondering if the bioassays are from the early
22 years and not when the radioactive daughters
23 could have been more potentially hazardous to
24 these people, and so then questioning the
25 validity of the earliness of that and if there

1 were things closer to 1962.

2 And I guess lastly, sciences and the data, and
3 all the steps I believe should be followed in
4 this production of the uranium, not limiting it
5 to Building 55, but looking at what it took to
6 -- the whole process, and to follow that.

7 Thank you.

8 **DR. ZIEMER:** Thank you. And Bev, I might
9 mention -- and NIOSH people can help me if I'm
10 incorrect, but it's my understanding that --
11 that the Department of Labor, when they look at
12 the -- the 250-day issue or the sort of the
13 2,000-hour year issue, that they actually are
14 in a position to do some weighting if they have
15 evidence that individuals worked longer work
16 weeks. And I'm -- I think I've interpreted
17 that correctly.

18 Larry or one of the NIOSH people -- or maybe
19 someone from Labor -- is -- is Pete still here?
20 Okay, Stu Hinnefeld. Now I -- whether or not
21 they're able to do that on an individual basis
22 -- we know that -- they have told us that they
23 -- they can do weighting, and apparently do
24 weighting, where they have evidence to that
25 effect. But Stu, can you address that for us?

1 **MR. HINNEFELD:** Well, what you're talking about
2 is in ar-- in arriving at 250 days for SEC --

3 **DR. ZIEMER:** Yeah, for --

4 **MR. HINNEFELD:** -- qualification in terms of
5 time period.

6 **DR. ZIEMER:** -- the 250-day issue, but --

7 **MR. HINNEFELD:** I think the issue here might be
8 --

9 **DR. ZIEMER:** -- here might be the model that's
10 used for --

11 **MR. HINNEFELD:** Yeah, I think this is a
12 question about, in the dose reconstruction
13 model, is the 2,000 hour per year of intake
14 because it's an intake rate --

15 **DR. ZIEMER:** Right.

16 **MR. HINNEFELD:** -- (unintelligible) intake rate
17 --

18 **DR. ZIEMER:** Right.

19 **MR. HINNEFELD:** -- and should that number be
20 adjusted upward seems to be the issue here.

21 **DR. ZIEMER:** Right.

22 **MR. HINNEFELD:** So it'd be something to be
23 pursued.

24 **DR. ZIEMER:** Right.

25 **DR. CASE:** (Off microphone) (Unintelligible)

1 **DR. ZIEMER:** Oh, right, okay. Now we'll hear
2 from Labor.

3 **DR. CASE:** Dianne Case from Department of
4 Labor, just to speak to the 2,000 hours per
5 year. Again, at any sites, if the claimant has
6 additional information at the time the
7 recommended decision has been issued, they can
8 always bring up information that they may have
9 -- other evidence that, say they worked longer
10 --

11 **DR. ZIEMER:** Right.

12 **DR. CASE:** -- periods of time, that can be
13 adjudicated.

14 **DR. ZIEMER:** If it were an SEC issue, you could
15 weight the -- to meet the 250-day requirement.

16 **DR. CASE:** Well --

17 **DR. ZIEMER:** Okay.

18 **DR. CASE:** -- 250 days is 250 days.

19 **DR. ZIEMER:** Well, I think we've been told that
20 if there were evidence that -- no? Am -- am I
21 wrong on --

22 **UNIDENTIFIED:** You're right.

23 **DR. ZIEMER:** We -- we've been told that Labor
24 will weight -- if there were evidence that --
25 that a given worker worked, for example, 12-

1 hour days --

2 **DR. CASE:** Yeah, that --

3 **DR. ZIEMER:** -- they would take whatever -- 250
4 times eight --

5 **DR. CASE:** Right.

6 **DR. ZIEMER:** -- to get the right number of
7 hours, yeah.

8 **DR. CASE:** Yes.

9 **DR. ZIEMER:** Okay. Thank you. Okay. And
10 also, Bev -- I think you were here earlier --
11 you're aware that we are looking into the radon
12 issue, as well, with the help of our
13 contractor, so hopefully we'll be able to
14 clarify that further, as well, and some of
15 these other issues we've gotten notes on them,
16 so thank you.

17 **DR. LOCKEY:** I have a question.

18 **DR. ZIEMER:** Oh, a question, yes.

19 **DR. LOCKEY:** Yeah, one -- one question --

20 **DR. ZIEMER:** Dr. Lockey may be --

21 **DR. LOCKEY:** Larry, in that case where somebody
22 is working 2,600 hours a year, is that
23 additional information they can submit to NIOSH
24 for the dose reconstruction and that is taken
25 under advisement?

1 **MR. ELLIOTT:** Yes, we would -- we would love to
2 hear that kind of information in the interview.
3 If it doesn't appear at that point, there's
4 another opportunity for an individual claimant
5 to speak about whether the dose reconstruction
6 included overtime or not, and that would be at
7 the closeout interview. We'd hope that they
8 would bring it up at that point again and so we
9 could address it properly.

10 **DR. ZIEMER:** So if a model were used based on a
11 40-hour week and you had evidence or an
12 affidavit that the person worked 80-hour weeks
13 or something, you could --

14 **MR. ELLIOTT:** Yeah --

15 **DR. ZIEMER:** -- adjust --

16 **MR. ELLIOTT:** -- you know, we could adjust --
17 we can adjust. We'd also -- there's an -- you
18 know, at the appeal point, when they get a
19 recommended decision from DOL, they have
20 another opportunity to express their concerns
21 about how their dose was reconstructed and
22 whether or not it was accounted for, excess
23 overtime work.

24 **DR. ZIEMER:** Thank you. Yes, Bev, do you --

25 **MS. MARCOSKI:** I did bring that up with Mr.

1 letters from claimants that weren't able to
2 attend and asked me to read this for them on
3 their behalf.

4 One of them I'm going to read first, that's
5 from my wife, Christine Ramspott, who is -- her
6 father worked at General Steel Industries and
7 she's official representative for her mother,
8 Ruth.

9 (Reading) Dear Sirs, Madams, since I'm unable
10 to attend the meeting this week, I'm asking
11 that my husband, John Ramspott, make a brief
12 public comment on my behalf as the official
13 representative for my mother, a claimant under
14 the program. I again ask for your assistance.
15 The issue of correctly naming the place of
16 employment for which my father worked has still
17 not been totally resolved. My father worked
18 for General Steel Industries in Granite City,
19 Illinois, for over 35 years, as did his father.
20 Under this program, as of Saturday, December
21 9th, 2006, the DOL web site still lists this
22 facility as Granite City Steel, which was a
23 totally, completely different company located
24 across town from where my father worked.
25 Additionally, this information is also wrong in

1 the *Federal Register*. It is only partially
2 correct on the DOE web site. Generally
3 claimants for this facility are elderly and not
4 particularly knowledgeable about computer
5 usage. Most searches would start with the
6 Department of Labor. If the potential claimant
7 can't locate the name of his or her place of
8 employment, the search generally stops. This
9 doesn't seem to be fair and equitable, in my
10 opinion. I also question how other claimants
11 across the country are getting necessary
12 information if they work at a company that has
13 had several name changes over the years.
14 My husband John and I have made several
15 attempts to correct this naming issue. It was
16 first brought to the Board's attention at the
17 Westin Hotel in August 2005. Shortly after
18 this issue was personally brought to the
19 attention of Mr. Peter Turcic at a meeting in
20 St. Charles, Missouri. The problem was also
21 discussed during our telephone interview with
22 ORAU November 2005. It was part of the
23 workbook that we wrote and distributed to the
24 members of the Board and other responsible
25 officials. The name issue and request for a

1 change was also presented to the Board at the
2 meeting in June 2006 held in Washington, D.C.
3 After this meeting, my husband and others had a
4 phone conversation with Mr. Turcic about
5 several concerns regarding General Steel
6 Industries, including again the issue and
7 necessity of the name being listed correctly on
8 all government resources.

9 We have recently been working with officials of
10 the United States Steelworkers Union in Granite
11 City. We provided the union and its retiree
12 association with the three names of former
13 workers from General Steel Industries which
14 were given to our workgroup by NIOSH. These
15 workers had completed dose reconstructions
16 along with denials. These individuals are now
17 deceased. Thus we were allowed to have their
18 names. We have been told by the steelworkers'
19 organizations that they are 99 and nine-tenths
20 percent sure that these individuals never
21 worked at General Steel Industries and were in
22 fact known to them as long-time employees of
23 Granite City Steel. We both feel that perhaps
24 the site naming confusion may be the reason for
25 this dose reconstruction activity on ineligible

1 claimants. If this occurred, as we suspect, it
2 would certainly be proof that the correct name
3 change issue must be resolved.

4 I would like to request a formal reply to this
5 issue as further contact with these families is
6 planned in light of the new radiation source
7 information which we believe now must be taken
8 into consideration as required by the EEOICPA
9 program.

10 As an educator for over 30 years, I
11 respectfully assign you guys some homework.
12 Can you help me? And we really --

13 **DR. ZIEMER:** Okay. Before you read that other
14 letter, let -- let me ask a question. What --
15 what is the name that NIOSH is using to
16 identify this site? Is it -- is it Gen-- it's
17 General Steel? NIOSH, do we -- do we know -- I
18 recall this coming up before and I'm puzzled
19 why we --

20 **MR. RAMSPOTT:** It's like a bad penny.

21 **DR. ZIEMER:** -- haven't resolved it, so what --
22 what has happened is some people have been told
23 that they are not eligible because they
24 (unintelligible) --

25 **MR. RAMSPOTT:** Or mail comes to them that says

1 they worked at Granite City Steel. They've had
2 to argue with interviewers to convince them.
3 I've had people told sorry, you're talking
4 about the wrong site; that's not even part of
5 the program. And this has gone on for a long
6 time and --

7 **DR. ZIEMER:** In -- in the official list of
8 eligible sites, what is listed there? Do we
9 know that, as a starting point? In the
10 original legislation that --

11 **MR. RAMSPOTT:** Yeah, it -- it says Granite City
12 Steel. It's the wrong name. *Federal Register*
13 is wrong. I'm real familiar with Peter Eisler.
14 It's -- it's wrong there, too.

15 **DR. ZIEMER:** If it's wrong in the *Federal*
16 *Register*, that's -- that's a -- a major
17 problem, isn't it?

18 **MR. RAMSPOTT:** Yeah. I just looked it up on
19 the Internet and it's wrong.

20 **DR. ZIEMER:** Okay. Okay.

21 **MR. ELLIOTT:** I can't answer your question
22 right now; I don't have my book with me that
23 would list this particular site. All I can say
24 on this topic is that we reconstruct doses for
25 those individual claimants that DOL finds

1 eligible to send to us.

2 **DR. ZIEMER:** Yeah, I -- I understand --

3 **MR. ELLIOTT:** It's not our responsibility to
4 question whether or not we've got the right --

5 **DR. ZIEMER:** Yeah.

6 **MR. ELLIOTT:** -- person from the right site,
7 and I understand --

8 **DR. ZIEMER:** It sounds like --

9 **MR. ELLIOTT:** -- the problem here.

10 **DR. ZIEMER:** -- Pete may have made a commitment
11 to -- to do something and -- I'm wondering if --
12 -- if the fact that it got --

13 **MR. ELLIOTT:** Laurie tells me that in our
14 system of documentation that we use, we've
15 changed the name to GSI, but that's not -- am I
16 -- did I get that right?

17 **MS. ISHAK:** We -- we change the -- the cases --

18 **DR. ZIEMER:** To General Steel Industries?

19 **MS. ISHAK:** We change ours to General Steel
20 Industries, GSI, in NOCTS. I know, only
21 because I've been working with John on this
22 issue, and Dr. McKeel. And I know we've had
23 some e-mail contacts about how we have changed
24 it to General Steel. And then there was some
25 confusion about whether the cases we have done

1 dose reconstructions for actually were for GSI
2 employees. So I know we changed the name in
3 our system, in NOCTS, and --

4 **DR. ZIEMER:** But if we don't catch it in
5 advance at the Labor side, we have a problem
6 and --

7 **MR. RAMSPOTT:** And they don't get to you unless
8 they (unintelligible) --

9 **MS. ISHAK:** That I don't know.

10 **MR. RAMSPOTT:** -- right site.

11 **DR. ZIEMER:** We're going to try to follow up on
12 this.

13 **MR. RAMSPOTT:** We're just asking for some help
14 on it 'cause --

15 **DR. ZIEMER:** Yeah.

16 **MR. RAMSPOTT:** -- it did get corrected
17 partially.

18 **DR. ZIEMER:** Yeah. I think NIOSH has tried to
19 do the right thing here and I -- I suspect if
20 it started out wrong in the *Federal Register*
21 that we -- we've got a problem.

22 **MR. RAMSPOTT:** Well, it got -- it did get
23 corrected on the DOE site, to a -- a point. It
24 says some radioactivity -- or some work was
25 done for Granite City Steel --

1 **DR. ZIEMER:** Okay.

2 **MR. RAMSPOTT:** -- at General Steel. Well,
3 that's totally wrong, too, 'cause they --
4 Granite City Steel never had anything to do
5 with --

6 **DR. ZIEMER:** Mark -- Mark has pulled out the
7 *Federal Register* for me, and as you have
8 indicated, it -- it says Granite City Steel.

9 **MR. RAMSPOTT:** Yeah.

10 **DR. ZIEMER:** Yeah. So you know --

11 **MR. RAMSPOTT:** It needs to be fixed.

12 **DR. ZIEMER:** So this -- this is what Labor is
13 working off of, it would appear, so -- okay.

14 **MR. RAMSPOTT:** If it could be fixed 'cause
15 these people turn away a lot of times. They
16 just quit. They've been told no and you're at
17 the wrong site and --

18 **DR. ZIEMER:** Thank you for reminding us of this
19 issue --

20 **MR. RAMSPOTT:** Okay.

21 **DR. ZIEMER:** -- John. I know you've brought it
22 up before, and I think we thought it had been
23 corrected, but it obviously has not. You may
24 proceed.

25 **MR. RAMSPOTT:** And I --

1 **DR. WADE:** Wanda has a question.

2 **DR. ZIEMER:** Oh, Wanda.

3 **MS. MUNN:** Yeah. My question is, were there in
4 fact two sites which may have been AWEs? Might
5 work have been done at both sites, or are we --

6 **DR. ZIEMER:** Do we know --

7 **MS. MUNN:** -- assured it's only one?

8 **DR. ZIEMER:** -- the answer to that or do you
9 know for -- do you know that they weren't
10 eligible?

11 **MR. RAMSPOTT:** Absolutely. Granite City Steel
12 was a totally different company. It's never
13 been on any of the *Federal Register* lists
14 whatsoever correctly. There was no work done
15 for the -- you know, for them. The only thing
16 we thought that could have maybe happened is
17 that -- and there -- there are four people
18 involved. Three of them we were given their
19 names. And with the union telling us nah,
20 these guys never worked at General Steel --
21 let's say they worked one year, the 250-day --
22 and again, we're not trying to beat a dead
23 horse. We'd like to try and locate these
24 people 'cause we think some things are going to
25 change now 'cause looking at the dose

1 reconstructions, no Betatron was mentioned, no
2 cobalt was mentioned, no radium was mentioned,
3 activation's never been mentioned, and these
4 people are probably entitled to a new dose
5 reconstruction, I would think, so it'd be kind
6 of nice to find those families so they can ask
7 for that 'cause they've been denied. And it's
8 also -- the other reason -- I don't know what a
9 dose reconstruction costs, but it could be a
10 waste of money if they're doing any more.
11 Those four were done for maybe people that
12 didn't work there and we would really like to
13 see that money spent on somebody who is
14 eligible because --

15 **DR. ZIEMER:** Okay, Stuart has a comment here,
16 maybe --

17 **MR. HINNEFELD:** Wanda, with respect to your
18 question, the confusion arose because -- now
19 correct me if I'm wrong here, John -- Granite
20 City Steel bought the property that GSI had
21 used to do this work, later on. Is that true?

22 **MR. RAMSPOTT:** Partially. The parent company
23 of Granite City Steel is National Steel --

24 **MR. HINNEFELD:** Uh-huh.

25 **MR. RAMSPOTT:** -- so if that was the reason, it

1 would probably say National Steel --

2 **MR. HINNEFELD:** So --

3 **MR. RAMSPOTT:** -- instead of Granite City
4 Steel.

5 **MR. HINNEFELD:** -- there was some combination
6 of these --

7 **DR. ZIEMER:** Okay, so it's even more confusing
8 --

9 **MR. HINNEFELD:** -- later on after
10 (unintelligible) --

11 **DR. ZIEMER:** -- than we think.

12 **MR. HINNEFELD:** -- (unintelligible) work --

13 **MR. RAMSPOTT:** (Off microphone)
14 (Unintelligible) work.

15 **MR. HINNEFELD:** -- and the remediation work
16 that was subsequently done at what was the
17 General -- City or -- General City Steel --
18 GSI, General Steel, when the work was done it
19 was GSI. By the time the remediation work was
20 done later on, the DOE referred to it as the
21 Granite City Steel property. So I believe
22 that's the origin of the original confusion,
23 but there doesn't seem to be any indication
24 that Granite Steel Company and the facility --
25 the different facility that they operated in

1 Granite City ever did any AWE work. The work
2 was done at GSI.

3 **MS. MUNN:** So I guess the real basic question
4 is, we're sure we have the right site, whether
5 we have the right name or not.

6 **MR. HINNEFELD:** The GSI site was the --

7 **MS. MUNN:** We're on the right site.

8 **MR. HINNEFELD:** Yeah, the GSI site was where
9 the AWE work was done.

10 **MR. RAMSPOTT:** If the address is right, the
11 address is --

12 **MS. MUNN:** Very good.

13 **MR. RAMSPOTT:** -- General Steel, it just has
14 the wrong name on it, so -- and the Betatron
15 was definitely at General Steel.

16 **DR. ZIEMER:** Go ahead and proceed with the
17 other letter.

18 **MR. RAMSPOTT:** Okay. The next letter is from a
19 claimant, and this gentleman -- he really is
20 very ill. His name is Gillum Burgess.

21 (Reading) Thank you for reminding me of the
22 Board meeting in Chicago next week. I'd like
23 to go and would if my arriving in the emergency
24 room of Barnes Jewish Hospital in St. Louis
25 nearly unconscious at -- October the 11th,

1 which led to a total 21 days in a medical
2 facility in metropolitan St. Louis. I'm very
3 fortunate to be able to e-mail you this message
4 as things started bad on the 20th of October,
5 was taken by ambulance in a coma to St.
6 Anthony's Center in Alton where I believe my
7 life was saved.

8 The purpose in writing this letter to all of
9 you is to hopefully ask that the letter would
10 be read and given to the Board if you can make
11 copies for all to ask that a determination be
12 made before I die, and others die.

13 During the years that I worked at Commonwealth
14 Plant of General Steel Castings, now GSI, I
15 believed there was no real danger as the
16 corporation and leaders took every precaution
17 known at that time. When renal cancer -- or,
18 I'm sorry -- when renal cancer, renal cell
19 carcinoma, RCC, was found in my left kidney and
20 all successfully removed in 1994 and later non-
21 Hodgkin's lymphoma was found during surgery in
22 my left eye, I never considered that the old
23 Betatron and other non-destructive testing
24 tools that I managed -- he was the manager of
25 the Betatron -- were the cause.

1 Of course we knew nothing of skyshine
2 activation in the '50s and '60s. Some had made
3 investigations, but those were not well-known.
4 Now I know much has been done by others at this
5 time.

6 Talked to my mother, who had recovered from
7 female cancer, about the kind of cancers I was
8 diagnosed with and she knew of no other person
9 in her or Dad's family who had ever had those
10 types of cancer, renal cell carcinoma or non-
11 Hodgkin's lymphoma. She believed Dad's liver
12 cancer was either caused by the medicine to
13 cure a serious lung disease, tuberculosis, or
14 from beer-drinking -- not excessively, but with
15 many meals over a long period of time. There
16 was no biopsy done at the time on Dad, but
17 again, the emphasis is on no RCC or lymphoma in
18 my family before me.

19 The Manhattan Project, which I believe was the
20 forerunner of the Atomic Energy Commission, did
21 much work in the St. Louis area by contract and
22 subcontract in plants owned by St. Louis
23 companies, some done out of state in Missouri
24 and Illinois like Dow Chemical, the Granite
25 City Plant of GSI. We made X-rays of castings

1 used on Polaris-type submarines, including the
2 12 I believe missile tubes, cast armor for
3 World War II and the Korean Conflict; uranium
4 from Mallinckrodt Chemical Company's plant in
5 Weldon Spring, Missouri; railroad castings like
6 the motor trucks at each end of a subway car in
7 New York. Using cobalt-60, GSI had a complete
8 family of non-destructive testing from
9 Betatrons, dye penetrant, all used daily except
10 for the 250 KVP X-ray machine. We followed the
11 Atomic Energy Commission requirements for all
12 employees because one seniority list a person
13 might be in the chemical testing area one week
14 and assigned to the Betatron the next week. I
15 taught the course we wrote on radiation
16 physics, which emphasized the calculation of
17 how many feet must be between the source and
18 the operator to be safe. Time was a
19 consideration.

20 The Polaris submarine, when armed with I
21 believe 30 missiles, is a complete weapons
22 system. Can you imagine any nation on earth
23 attacking us in any way with submarines fully
24 armed and a capable -- or capability of
25 navigating under the polar ice cap. One of the

1 early submarines, the *Thresher*, went down at
2 sea. A major investigation determined the
3 *Thresher* began -- or when the *Thresher* went
4 down, that began one of the most intense
5 inspection systems ever devised. I thought I'd
6 never forget the full name of the program.
7 Now again my reason for communication in
8 writing, please make your decision before
9 others die, and myself. Respectfully
10 submitted, Gillum E. Burgess.

11 **DR. ZIEMER:** Okay. Thank you very much, John.

12 **MR. RAMSPOTT:** Now if I can do my comments
13 personally, and I'll keep them brief because
14 this is simply a follow-up on some of the other
15 issues.

16 First off, I really wanted to thank Robert
17 Stephan and Senator Obama for coming to the
18 meeting today. I think it definitely showed
19 the claimants that people are interested in
20 helping them. The Board's always here. Now we
21 see some different people coming -- really
22 quite miraculous, to be honest with you.
23 And then we wanted to -- I really wanted to
24 thank the people -- I've had a few people walk
25 up and say you really gave some good

1 information last night and I personally wanted
2 to thank you for that 'cause I think it's a
3 whole new outlook to this site and maybe some
4 others. You know, and I'd like to see
5 accelerators being looked at, you know, at Iowa
6 or the Cyclotron and starting to do a quite a
7 bit of reading on that and I see a lot of new
8 data coming out, so maybe we helped open that
9 book up a little bit.

10 Now we really came here and I -- today thrilled
11 me to watch these other NIOSH-recommended SECs
12 and how they were being handled and how they're
13 being looked at. It's a whole different book
14 of how to do business, it looks like to me, and
15 I was really, really impressed by it. You
16 know, there were some things came up that I saw
17 that would apply to General Steel Industries.
18 You take Building 55, you know, and I kept my
19 mouth shut 'cause I was ready to jump in there,
20 too, 'cause it's like the Betatron. It was
21 secured and nobody else was ever allowed in
22 there, except for the electrician, the plumber,
23 the railroad guy, the chain guy, the crane men,
24 inspectors, they had lunch brought in time to
25 time. Yeah, it was secure. It had a ten-foot

1 wall but everybody could come in there if they
2 had to, if they had business in there. That
3 sound like -- that's what happened at that
4 plant, too.

5 And I was also going to say that -- oh, gosh,
6 please give these guys an out-- give them an
7 outreach meeting. Let them tell their story.
8 Get their -- you know, the facts out. I saw
9 what happened at GSI. That outreach meeting's
10 gold -- golden opportunity for everybody.

11 Everybody learned from ours, so...

12 And I guess the bottom line was we're hoping
13 NIOSH will give us that directed SEC, or that
14 suggested recommended SEC and then you'll
15 approve it 'cause there is a lack of data.
16 When we started looking into this, we were --
17 and our relationship with NIOSH is really very
18 good 'cause they promised to give us everything
19 they had. We'll give you all the information.
20 Time we started, you know what the information
21 was was all the stuff we got off the Internet.
22 There wasn't any information so we worked as a
23 pretty good team now putting together all the
24 information. And in that particular case of
25 General Steel, there was 13 years worth of

1 uranium going over there and 20-some-odd years
2 with a Betatron, so there's a lot of radiation
3 that nobody knew about, never been discussed
4 before. So you know, the equal treatment that
5 someone else just mentioned on the phone, I
6 thought that was very interesting 'cause we did
7 -- we were at the meeting for the Iowa
8 radiographers, you know, and so we clearly
9 know, like there was a time frame when there
10 was no radiological material, but you guys took
11 into consideration the flash X-ray, which was a
12 six-million volt accelerator. I think it was
13 made by Allis Chalmers.

14 So I appreciate your time, look forward to
15 working with you. We've got documents that
16 we're going to share with everyone. And again,
17 I just appreciate the consideration 'cause you
18 guys didn't listen to these people, they don't
19 have a chance.

20 Thank you.

21 **DR. ZIEMER:** Okay. Thank you, John.

22 Then we'll hear from Dr. McKeel -- Dan, are you
23 still here? Yes.

24 (Pause)

25 **DR. MCKEEL:** Well, anyway, good evening to the

1 Board. I -- this -- tonight I really want to
2 talk about the Battelle task order 16 contract,
3 and also reinforce what John just said about
4 why we believe -- very briefly but sort of in
5 summary fashion -- why we merit an 83.14 SEC
6 for General Steel Industries.
7 On the web -- on the OCAS web site, and I
8 quote, is this. (Reading) On October the 12th,
9 2005 NIOSH awarded a one-year task order
10 contract to Battelle. Under this contract
11 Battelle will assist NIOSH in the dose
12 reconstruction program by, one, evaluating and
13 analyzing radiological data and conditions at
14 each of the 256 work sites listed in the
15 contract; two, developing Technical Basis
16 Documents exposure models for the work sites
17 where adequate radiological and work site
18 information exists; and three, completing the
19 dose reconstructions for claims from the work
20 sites where a Technical Basis Document has been
21 developed. Through their evaluation and
22 analysis Battelle will also assist NIOSH in
23 identifying work sites where there is
24 insufficient information on radiological and
25 work site condition -- end of quote.

1 SINW, our group, first requested to deal
2 directly with Battelle since GSI and Dow
3 Madison site were included as task order 16
4 work sites. OCAS denied us permission and has
5 actually refused since then to provide the name
6 of the Battelle project leader even today.
7 Finally, after requesting, we were given Dave
8 Allen's undated, two-page progress report on
9 the Battelle contract. This document contained
10 no site-specific data on the two Illinois
11 sites. It did list 37 priority sites, one of
12 which was Dow Madison. How this designation
13 was derived or what it meant were not stated.
14 OCAS informed us that no Battelle site-specific
15 data was available for either Dow or GSI, but
16 confirmed that zero dose reconstructions had
17 been done on these same two Illinois sites. A
18 TBD that covered GSI was said to be in
19 preparation, but we have not yet seen it.
20 Many contract milestones were acknowledged as
21 being missed, and progress as made on far less
22 than half the stated goals of the contract.
23 Nor has Dave Allen's progress report yet been
24 posted on the OCAS web site along with the
25 other Battelle TO 16 documents.

1 SINW questions whether the two-page brief and
2 undated report we were given is actually the
3 full report provided to NIOSH. None of the
4 subdocuments mentioned in Mr. Allen's report as
5 being ready by November have been provided to
6 us, specifically TBD 6000 and TBD 6001,
7 Battelle TIB 5000 or the financial statements,
8 to be more specific.

9 We then -- then learned that NIOSH had granted
10 Battelle a no-cost seven-month extension to
11 task order 16 to run through May 31st, 2007. A
12 three-page document supporting this has been
13 posted on the OCAS web site. Why, we ask, was
14 such remarkable under-performance on a federal
15 contract rewarded with a seven-month extension?
16 The initial one-year contract period for TO 16
17 was exceeded without adequate justification,
18 and we wonder why.

19 Next, and last, I want to briefly review for
20 you, in summary, of a lot of information we
21 presented, why we think GSI should get an
22 immediate SEC 83.14 for the following reasons.
23 NIOSH acknowledges it has no dosimetry data of
24 any kind.

25 NIOSH acknowledges there is no comparable site

1 to GSI.

2 NIOSH acknowledges that TIB-004 on uranium
3 metal is not adequate for dose reconstruction
4 for the reasons that John Ramspott just
5 outlined. There are multiple other sources
6 than uranium metal.

7 NIOSH acknowledges two 25-MeV Betatron magnetic
8 conduction particle accelerator X-ray sources
9 were used to X-ray Mallinckrodt uranium ingots
10 from 1952 to 1966. The Ramspotts and SINW have
11 provided NIOSH, through OCAS, with voluminous
12 GSI site documentation indicating why and how
13 GSI workers were harmed. There was no
14 effective radiation safety program and workers
15 were badly misled about risk. The
16 documentation we've provided includes a 400-
17 page workbook on GSI; a detailed 13-page CATI
18 transcript; video footage and court reporter-
19 generated transcripts and PowerPoints presented
20 at worker meetings; plus four peer-reviewed
21 scientific articles and a book chapter on
22 Betatron activation and a NIOSH grant
23 application all from Professor Vincent
24 Kutemperer which he submitted in 1976. The
25 grant was to study how the activation products

1 might harm the workforce who handled Betatron-
2 activated industrial materials, and Dr.
3 Kutemperer was one of the first people -- or
4 Mr. Kutemperer at that time -- was one of the
5 first people to ever point out the -- the human
6 health dangers of industrial X-ray with this
7 type of device.

8 And finally, Battelle has performed no GSI dose
9 reconstructions in 14 months, as outlined in
10 the previous section.

11 The criteria for a Section 83.14 SEC have been
12 amply fulfilled at GSI. NIOSH claims it can
13 reconstruct the uranium-associated doses. Yet
14 it is obvious that ORAU or Battelle have not
15 and cannot do so, and NIOSH has provided us no
16 evidence that it can do so. I outlined
17 yesterday that we've only had four dose
18 reconstructions out of the hundreds of claims
19 submitted to General Steel, and we now believe
20 that those four dose reconstructions were not
21 really for GSI people.

22 NIOSH appears to be unwilling to add the
23 radiation doses incurred by activation
24 radiation from the castings and add those to
25 additional doses from the other GSI radiation

1 source terms that include two cobalt-60 gamma
2 sources and a radium-192 gamma source and a 250
3 KVP portable X-ray device.

4 NIOSH has failed to meet the timeliness or the
5 dose reconstruction accuracy test for an SEC,
6 and the workers have been harmed.

7 We therefore urge NIOSH to admit the obvious
8 and proceed to immediately recommend GSI for a
9 SEC 83-14-derived class that includes the
10 residual uranium contamination period from 1966
11 through 1994 when DOE performed a cleanup of
12 the residual uranium dust in the old Betatron
13 buildings. The workers at GSI who are sick and
14 dying deserve no less.

15 And after the Board meeting, if I may, we will
16 submit further detailed documentation why we
17 believe this post-uranium work periods at both
18 Dow and GSI should be covered under SECs.

19 And again I thank the Board for hearing --
20 hearing us and giving us a forum to speak about
21 this. Thank you.

22 **DR. ZIEMER:** Thank you very much, Dr. McKeel.
23 Now we -- we'll also hear from Louise McKeel.
24 Louise?

25 **MS. MCKEEL:** A lot of people know that I'm Mrs.

1 Dr. McKeel, but I'm also Louise McKeel and I
2 guess I'm just going to read the comment and
3 give it to you so that it stays as clear as
4 possible.

5 As a taxpayer and a interested citizen, my
6 comment reflects a broad concern that costs of
7 prolonged dose reconstruction, combined with
8 other procedural delays and administrative
9 costs, could nearly match or conceivably
10 surpass the initial claimants' aggregate appeal
11 for compensation.

12 So then -- we're addressing Dr. Ziemer and
13 other Board members, but particularly Dr.
14 Ziemer because I believe I had a request and
15 you responded a little bit to me that it
16 wouldn't be too difficult, and so I want to be
17 sure to have your attention on this.

18 Well, I'll say again, I'm Louise McKeel of St.
19 Louis, Missouri. I represent Village Image
20 News, which is an environmental news agency --
21 an independent news organization, also. In
22 August 2005 and again in June 2006 I addressed
23 the Board in two letters that asked for overall
24 cost figures for EEOICPA. The verbal response
25 was, one, the information was in the public

1 domain and straightforward to obtain; and two,
2 Stu Hinnefeld from NIOSH would help the Board
3 to gather the program cost information for me.
4 Dr. Lewis Wade was going to find my original
5 letter and provide a copy to Dr. Ziemer and the
6 Board. So far no cost information has ever
7 materialized.

8 In the meantime, the testimony from the fourth
9 and fifth rounds of the Hostettler House
10 Judiciary Subcommittee have emerged. It has
11 now become clear -- to Dan and me, at least,
12 and others, I think -- that members of the
13 administration, including OMB, the Department
14 of Labor, are actively attempting to reduce
15 benefits paid under the SECs and to other
16 EEOICPA claimants, even though Shelby Hallmark
17 denied this in his December 5th testimony on a
18 downloaded webcast that we received.

19 Mr. Hallmark apparently fears that the -- a
20 flood of SEC awards will need to be considered
21 in numbers that could possibly swamp the budget
22 process, now estimated to run as high as \$7
23 billion. My questions to the Board tonight are
24 the following: A, will you please provide me
25 with the total costs to date for all components

1 of EEOICPA from 2000 to the present, including
2 the Board, NIOSH, SC&A audit activities, ORAU,
3 Battelle, DOE and -- and Department of Labor;
4 B, I'm relying on NIOSH and Department of Labor
5 data and the unpublished probable SEC-eligible
6 site list from the ORAU \$55 million contract
7 and the \$1.5 million Battelle task order 16
8 contracts, will the Board please project for me
9 the aggregate cost of all awarded and prob--
10 probable SEC claims and non-SEC claims that
11 will potentially be compensated in the future;
12 and C, if A and B are not possible, will the
13 Board request through Congress that the
14 Government Accountability Office immediately
15 undertake a study to obtain and disseminate
16 these cost figures to the public.
17 As a citizen and a taxpayer, I remain both
18 surprised and alarmed to keep watching the
19 initial visible intent of Congress to
20 compensate certain harmed nuclear workers who
21 vigorously and ingenuously thwarted by multiple
22 agencies of our United States government,
23 including presumably the Office of the
24 President. One could make an extensive
25 taxonomy of the ways that have been developed

1 to delay and deny worker claims. Meanwhile,
2 workers are dying. Many have already died
3 while waiting for payments of their claims. My
4 husband Dan and numerous others have
5 demonstrated to me the tedious and time-
6 consuming SEC petition process that routinely
7 results in more and more wasted time and money
8 on every side.

9 I sincerely hope my third request to the Board
10 for some comprehensive EEOICPA cost figures
11 will not be ignored. If the costs are
12 completely unknown and inestimable, I honestly
13 expect a reply stating that condition, simply
14 because I'm a taxpayer and an increasingly-
15 interested citizen.

16 I wrote that before I got here, and I had a
17 thought after I got here that I just add on.
18 As an added comment I want to point to the rich
19 irony that emerged this morning during the
20 Board's discussion about four Board members'
21 problems with income tax withholding,
22 particularly related to the State of Georgia.
23 Visually, the scene practically mirrored the
24 same kinds of frustration and indignation that
25 I am used to videotaping when nuclear workers

1 testify. To hear Robert Presley say -- to con-
2 - to hear Robert Presley conclude, in self-
3 righteous anger, there's something wrong, helps
4 me to illustrate the way I feel about the
5 entire accounting process into which I am
6 inquiring through -- through NIOSH.

7 The suggested remedy for the Board involves the
8 responsible agencies contacting every member of
9 the Board to guide each through the time and
10 energy-consuming bureaucratic tracks that
11 appear similar, but presumably less cumbersome,
12 than the so-called tracks that NIOSH and others
13 are currently developing for the nuclear
14 workers they are supposed to be serving. A lot
15 of time could be saved by plainly recognizing
16 that the federal government and industry and
17 other agencies, such as the Atomic Energy
18 Commission, did not do an adequate job of
19 monitoring workers at numerous sites in the
20 past. And all workers who worked in
21 unmonitored, or merely partially monitored,
22 environments need to be compensated on good
23 faith, much the same way Mr. Presley will
24 probably have his tax debts adjusted. But as a
25 significant monument to the future, such a --

1 such a payoff action must lead to comprehensive
2 steps and tracks that are vigorously developed
3 and rapidly implemented to inform not only
4 workers and their families, but the population
5 at large, of the consequences and dangers of
6 managing and experimenting with a wide range of
7 nuclear materials, whether for industrial,
8 educational or governmental uses. Thank you.

9 **DR. ZIEMER:** Okay. Thank you, Louise. Please
10 let me ask you a couple of questions. Number
11 one, we -- we had provided to us today the --
12 that part of the cost of the program which is
13 the biggest part and that is the payments to
14 claimants. You're aware of that information.

15 **MS. MCKEEL:** Yes, and I could add -- and I
16 should add, that was after I wrote the last
17 part of that. And I was gratified.

18 **DR. ZIEMER:** Okay.

19 **MS. MCKEEL:** To me, that was the kind of
20 information --

21 **DR. ZIEMER:** Yeah, and -- and you --

22 **MS. MCKEEL:** -- and some of that's been
23 available.

24 **DR. ZIEMER:** Right, and that includes both the
25 Labor part and the -- and the NIOSH part, both

1 parts of the EEOICPA program, in terms of
2 claimant compensation and -- so -- so that's --
3 that was the first --

4 **MS. MCKEEL:** (Unintelligible) --

5 **DR. ZIEMER:** -- I wanted to make sure --

6 **MS. MCKEEL:** -- parts of it. It's -- it's
7 still parts of it.

8 **DR. ZIEMER:** Now if -- if you're asking what
9 the --

10 **MS. MCKEEL:** Basically (unintelligible) --

11 **DR. ZIEMER:** -- projection is, I hope you don't
12 ask the Board to project that. I don't think
13 we have a way of projecting that. Maybe --
14 maybe Labor or NIOSH knows what the pool is out
15 there, or one might be able to look at what's
16 happened and -- and sort of plot that. But in
17 any event, that piece of the information I
18 assume you now have available. That is what --

19 **MS. MCKEEL:** True. I must say that I haven't
20 processed it as much as I want to now that --

21 **DR. ZIEMER:** Okay, but --

22 **MS. MCKEEL:** -- it's been (unintelligible) --

23 **DR. ZIEMER:** -- the figures are there. I think
24 the complete figures were provided to us today
25 on the compensation --

1 **MS. MCKEEL:** Yes.

2 **DR. ZIEMER:** -- that has been given to
3 claimants. Now the other parts of the things
4 you were asking were the costs of, for example,
5 this Board, and our -- I think those are
6 numbers that are -- have been made public in
7 this forum in -- in the last few meetings and
8 perhaps you didn't get them, but Lew can tell
9 you what our budget is to operate this
10 committee, and also the -- the budget for our
11 contractor has been made public within the last
12 few meetings. So those two pieces of
13 information we can give you, if not like this
14 within the day -- I know what those are --

15 **MS. MCKEEL:** And then if we could get
16 (unintelligible) --

17 **DR. ZIEMER:** -- and I don't think I can commit
18 to giving anything for Labor. I'm not sure
19 NIOSH can commit Labor to providing numbers,
20 but that's public information. I think you'd
21 have to go after that with the Labor people.
22 NIOSH budget is a public thing now. I don't
23 know how hard it is to get that, but those --

24 **MS. MCKEEL:** Well, I've been hearing some --
25 and of course I tape every little word --

1 **DR. ZIEMER:** Right.

2 **MS. MCKEEL:** -- but I don't always hear kind of
3 the bottom line. I hear rates and things --

4 **DR. ZIEMER:** But what I'm telling you is that I
5 think the numbers are there. I -- I want to
6 make sure that you can get the information you
7 need. We are certainly not trying to keep it
8 from you and I think -- but I don't know how
9 readily it -- I don't have -- I don't know what
10 ORAU's budget is. I mean I've -- I've seen
11 some numbers, and again, it's public
12 information. Battelle contract is public
13 information. So I think those numbers are
14 there and --

15 **MS. MCKEEL:** I guess I --

16 **DR. ZIEMER:** -- and perhaps --

17 **MS. MCKEEL:** -- I had hoped --

18 **DR. ZIEMER:** -- perhaps off-line --

19 **MS. MCKEEL:** -- (unintelligible) assembling --

20 **DR. ZIEMER:** -- we can guide you to the right
21 resources, but at least for the NIOSH and OCAS
22 part of this, and certainly the Board stuff --
23 I mean our -- our budget is -- is well-known.
24 And I -- I might tell you that -- I said to
25 some of the Board members after our meeting

1 earlier today where we expressed -- expressed
2 our frustrations, now we know what the
3 claimants feel like when they're dealing with
4 the federal government. This is
5 (unintelligible) --

6 **MS. MCKEEL:** I felt this was a plus. I really
7 felt on Mr. Presley's side for a while there,
8 you know. It's a -- it's a problem. But
9 maybe you can understand that little bit how
10 people in need and who are sick must feel when
11 they're not getting what they need.

12 **DR. ZIEMER:** Understood. Okay.

13 **MS. MCKEEL:** But I think the exercise -- let me
14 just conclude my little thought -- was as we
15 pull those total numbers together, the exercise
16 was a way for us all really to figure out what
17 the proportions are here.

18 **DR. ZIEMER:** Right, and I think you -- you may
19 or may not be surprised, but I -- I know that
20 sometimes there's a perception that the costs
21 of administering this program are as great or
22 greater than the costs of compensation, and
23 they are nowhere close to that. The
24 compensation is -- that has already been paid
25 dwarfs anything that it has taken to administer

1 this program. But nonetheless, the figures are
2 -- you know, are out there and let's -- we'll
3 try to make sure that you get them. But I -- I
4 don't think that --

5 **MS. MCKEEL:** I'll leave it with you there.
6 There was things about --

7 **DR. ZIEMER:** I'm reluctant to commit the Board
8 to spending time to do that as a Board task
9 when -- when the information is there. I mean
10 I -- I sort of feel like, in a sense, maybe
11 it's your responsibility to track it down
12 'cause it's there. But let us try to help you
13 get it.

14 **MS. MCKEEL:** I'm going to say that in running
15 my family, which I'm always interested in the
16 finances of the family --

17 **DR. ZIEMER:** Yeah.

18 **MS. MCKEEL:** -- I think the heads of the
19 family, both parents or in older children, need
20 to know how much everything costs.

21 **DR. ZIEMER:** Yeah. Yeah. Thank you. Robert
22 Stephan from Senator Obama's office -- is
23 Robert still with us?

24 **DR. WADE:** He's coming.

25 **DR. ZIEMER:** Would you like to read an

1 additional statement or have some additional
2 comments, we'd be pleased to hear from you.

3 **MR. STEPHAN:** You guys have been here a long
4 time. Do I need to read it, or can I just
5 submit it?

6 **DR. ZIEMER:** You can submit it, that's fine.

7 **MR. STEPHAN:** This is a written statement from
8 Congressman Costello, who could not be here
9 today. He asked Senator Obama to submit this,
10 but while the reporters were chasing me around
11 the back of the hotel, it got dropped in a
12 puddle, so I've been letting it dry out --

13 **DR. ZIEMER:** The dog ate the point, right.

14 **MR. STEPHAN:** -- so who do I give it to?
15 Again, just for the record --

16 **DR. ZIEMER:** Give it to Lew.

17 **MR. STEPHAN:** -- the-- these are comments from
18 Congressman Costello about Dow Chemical and
19 General Steel Industries, which are both in his
20 district. Okay? Thank you.

21 **DR. ZIEMER:** Okay. So we can enter those into
22 the record and make copies available to the
23 Board, as well.

24 **DR. WADE:** Right. I think we -- maybe we'll
25 start the day tomorrow reading it into the

1 record.

2 **DR. ZIEMER:** Yeah.

3 **DR. WADE:** I think we'll read it into the
4 record, but we'll do it in the morning.

5 **MR. STEPHAN:** Okay, yeah. I mean we -- we want
6 it in the official transcript.

7 **DR. WADE:** Right, we'll do that.

8 **MR. STEPHAN:** Okay.

9 **DR. WADE:** If you would give it to Jason, maybe
10 --

11 **MR. STEPHAN:** Thank you.

12 **DR. WADE:** -- Jason, you could read it into the
13 record in the morning.

14 **MR. STEPHAN:** Thank you.

15 **DR. ZIEMER:** We'll do that. Now I have gone
16 through every name on the list that I have.
17 Was there anyone that believes that they signed
18 up to speak that was omitted? Okay. I called
19 a couple of names and no one responded, but we
20 were having trouble reading them, so please
21 come at this time. Maybe one -- is -- one of -
22 - one of the names is Joshua.

23 **DR. WADE:** He'll identify himself.

24 **DR. ZIEMER:** Okay. The others looked like
25 Charles, but...

1 **MR. POLO:** I'm Joe Polo* from the GSI -- ex-GSI
2 group and I -- there was a lot brought here,
3 and I wanted to bring out a little bit on what
4 was on our training and so forth, and safety
5 education. I've been a lab technician all my
6 life -- most -- most of my life, and so I left
7 the petroleum chemical industry and went to
8 work for GSI November 1969 and worked through
9 December 1972. First few days I was put in the
10 metallurgical lab, and then they says we got a
11 new nuclear setup here we want you to take
12 advantage of, which was fine -- agreeable to
13 me. I was willing to learn.
14 So then they put me first into the magnetic
15 particle testing, magnaflux, and die penetrant
16 of the tank hulls. That's how you started out.
17 Then transferred into the Betatron X-ray lab
18 and send you to atomic energy specification
19 school for two weeks per the federal AEC
20 register, and we learned radiation safety. And
21 one month later they send me to Kodak at
22 Rochester, New York because they were having
23 pro-- a backlog and the -- couldn't -- the
24 people at the time couldn't handle the -- what
25 they call Xomats, so they send me to Rochester

1 to learn -- to film processor school, film and
2 processing and everything about it, which I
3 did. I spent two weeks there. And then I
4 worked as a Betatron operator and film
5 processor and film interpreter for several --
6 for a few years there.

7 Then I took classes on the use of isotopes,
8 namely cobalt-60 -- 80-curie, you heard -- and
9 we had a -- occasionally we leased a 100-curie.
10 And then also 150-curie radium-152 and we X-
11 rayed with the isotopes. 80-curie was used for
12 X-ray for base of nuclear channel heads, pipes,
13 flanges, seam generator components, rapid
14 transit underframes and the Trident submarine.
15 And like I said, majorly on the nuclear channel
16 heads. Okay. And we -- with the Betatron we
17 majorly X-rayed castings, tank hulls, steam-
18 generating plants, Trident submarine parts,
19 components and pipes and flanges and radium
20 ingots and billets. Then of course the
21 (unintelligible) axle housing like my
22 colleague, George Luber, explained to you, and
23 railroad cars and undercarriages. And the
24 Betatron was, like he explained, 25 million
25 energy volts, one of the bigger babies at that

1 time.

2 And in late 1969 we were using 80-curie cobalt-

3 60 and the pill, which is the source, became

4 hung up in the shooting position and did not

5 retract into the pig* or container. And we

6 walked out into the shooting room and noticed

7 the big Victoreen survey meter pegged* and we

8 returned to the operation room -- you know, the

9 room we cranked the source in and out from. It

10 was on a long cable. And we tried to calibrate

11 and reset the Victoreen survey meter. However,

12 to this day, I don't think -- there was also --

13 already radiation coming into the operation

14 room once we opened the door, so I don't think

15 we had a good reading on it. After cranking it

16 in -- in and out a few times, the pill finally

17 released and went back into the big container.

18 I reported the incident and went to the

19 dispensary. They send me home to our local

20 hospital, and fortunately our local hospital

21 was a advantage. We had some young doctors and

22 well-- with a lot of experience and highly

23 intelligent. It was -- yes, I was sent to the

24 family doctors, who took blood tests and they

25 says we don't know a whole lot about this.

1 They called St. Louis, they called Chicago,
2 North Shore, and so they gave me some
3 antibiotics and send me home. The next day I
4 went to work, the management put me into film
5 interpretation, you know, film reading until
6 the field badge reports came back.
7 Approximately nine years later I came down with
8 lymphoma type cancer of the pancreas and liver,
9 and I took chemotherapy, what they call chop*,
10 for -- oh, eight times, six months, two and a
11 half, three hours at a time at Siteman* Cancer
12 Center, Washington University, Barnes Hospital
13 and -- and I also cropped up with skin -- what
14 they called pre-cancer. Nobody knew a whole
15 lot about -- there weren't too many
16 dermatologists up on that stuff, either, so at
17 the present time I get treated at John Cochran
18 PA. They've got some good ones because they
19 are treating people that are coming back from
20 Iraq and it's also in St. Louis. I sub-- I
21 recently submitted all the paper forms and
22 doctors' reports and -- in -- with Department
23 of Labor in Paducah and NIOSH in Cincinnati. I
24 had a telephone interview and after -- and any
25 other government office that would request it.

1 We can -- it's available. Now we are waiting.
2 General Steel Industries, although we had film
3 badges, dosimeters and Victoreen survey meters,
4 Geiger counters, we did not receive any reports
5 on anything that transpired, to the best of my
6 knowledge. And I think that was where the big
7 failure was. So the other colleagues of mine
8 informed you of the other important things that
9 was needed, and this is more or less on our
10 training and so forth. So I thank you.

11 **DR. ZIEMER:** Thank you very much. And then the
12 other gentlemen, also from I believe the same
13 facility.

14 **MR. IVORY:** Good evening. I came here today --
15 John asked me to come today --

16 **DR. ZIEMER:** Give us your name, please --

17 **MR. IVORY:** Samuel Ivory.

18 **DR. ZIEMER:** Samuel, uh-huh.

19 **MR. IVORY:** John asked me to come today and
20 speak in behalf of the people outside of
21 Betatron, and I'd like to say everything that
22 they said about Betatron was true. And working
23 at General Steel, I was a chainer. Every
24 casting that they handled, we handled 'cause we
25 had to take it in and out. And that went on

1 from year after year. We had castings
2 sometimes stayed in -- in the plant over a year
3 till they finished them, and we handled those
4 plants -- those castings.

5 Also, in 10 building in the machine shop where
6 they machined these materi-- these castings,
7 they cut off the -- they cut off the steel and
8 it went back to -- to the foundry. And what
9 I'm saying here, everyone basically was exposed
10 to some of this material. If you were the
11 chainer, chipper, grinder, laborer, whatever
12 your capacity was, you was compo-- you was
13 exposed to this material. And just saying that
14 if you wasn't in Betatron, you wasn't exposed -
15 - when it came out of Betatron, it wasn't
16 clean. Where did it go? And being the
17 chainer, we had to lay down on it, crawl up on
18 it to hook it up. And when you got -- took
19 your clothes home to wash them and you look in
20 the washing machine, it was dirty, filthy. Did
21 you expose your family to it?

22 No one ever told us that it was dangerous. No
23 one ever told us anything. And I come here
24 today pleading with you to find out what the
25 problem was. You know, why would you, in this

1 modern day, put workers at risk and wouldn't
2 tell them?

3 And I'd like to thank the panel today for
4 letting me have this opportunity. Thank you.

5 **DR. ZIEMER:** Thank you very much. That
6 completes our list. Are there any others that
7 didn't get an opportunity to sign up that wish
8 to speak?

9 (No responses)

10 If not, I thank all of you for joining us
11 tonight and for your remarks, which we are
12 pleased to have in the record and in many cases
13 will be able to follow up on. You're all
14 welcome to be with us tomorrow. The Board will
15 resume its regular deliberations at 8:30
16 tomorrow morning, and we're recessed until
17 then.

18 (Whereupon, the meeting concluded at 9:11 p.m.)

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CERTIFICATE OF COURT REPORTER**STATE OF GEORGIA****COUNTY OF FULTON**

I, Steven Ray Green, Certified Merit Court Reporter, do hereby certify that I reported the above and foregoing on the day of Dec. 12, 2006; and it is a true and accurate transcript of the testimony captioned herein.

I further certify that I am neither kin nor counsel to any of the parties herein, nor have any interest in the cause named herein.

WITNESS my hand and official seal this the 18th day of February, 2007.

STEVEN RAY GREEN, CCR

CERTIFIED MERIT COURT REPORTER**CERTIFICATE NUMBER: A-2102**