

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

convenes

MEETING 54

ADVISORY BOARD ON
RADIATION AND WORKER HEALTH

DAY ONE

The verbatim transcript of the 54th
Meeting of the Advisory Board on Radiation and
Worker Health held at the Crowne Plaza Tampa East,
Tampa, Florida on Apr. 7, 2008.

STEVEN RAY GREEN AND ASSOCIATES
NATIONALLY CERTIFIED COURT REPORTERS
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Apr. 7, 2008

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TRANSCRIPT LEGEND

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In the following transcript: a dash (--) indicates an unintentional or purposeful interruption of a sentence. An ellipsis (. . .) indicates halting speech or an unfinished sentence in dialogue or omission(s) of word(s) when reading written material.

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

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

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

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

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

P A R T I C I P A N T S

(By Group, in Alphabetical Order)

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CHAIR

ZIEMER, Paul L., Ph.D.
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 School of Health Sciences
 Purdue University
 Lafayette, Indiana

DESIGNATED FEDERAL OFFICIAL

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EXECUTIVE SECRETARY

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 Nuclear Chemical Operator
 Hanford Reservation
 Richland, Washington

1 CLAWSON, Bradley
 2 Senior Operator, Nuclear Fuel Handling
 3 Idaho National Engineering & Environmental Laboratory

GIBSON, Michael H.
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Creative Pollution Solutions, Inc.
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2 Professor, Department of Environmental Health
3 College of Medicine, University of Cincinnati

4 MELIUS, James Malcom, M.D., Ph.D.
5 Director
6 New York State Laborers' Health and Safety Trust Fund
7 Albany, New York

MUNN, Wanda I.
Senior Nuclear Engineer (Retired)
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POSTON, John W., Sr., B.S., M.S., Ph.D.
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College Station, Texas

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Professor Emeritus
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Elysian, Minnesota

SCHOFIELD, Phillip
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BEHLING, KATHY, SC&A
BREYER, LAURIE, NIOSH
BROCK, DENISE, NIOSH
BROEHM, JASON, CDC
CHANG, CHIA-CHIA, NIOSH
CHIZ, HILARY, USW
DAVY, THERESA, DOL/JAX
ECKLER, JOYCE, NIOSH
ELLISON, CHRIS, NIOSH
EVASKOVICH, ANDREW
FITZGERALD, JOE, SC&A
GLEASON, ANN, PINELLAS
GLOVER, SAM, NIOSH
HAND, DONNA, PINELLAS
HINNEFELD, STU, NIOSH
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HUGHES, LARA, NIOSH
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MAURO, JOHN, SC&A
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MILLER, DAVID, DOL/JAX
MILLER, RELADA, OCAS/NIOSH
NELSON, GEORGE, NIOSH
PHILLIPS, CHARLES R., SC&A
RAFKY, MICHAEL, HHS
ROBERTS, KIMBERLEY, SAIC
ROBINSON, NELDA, NIOSH
RUTHERFORD, LAVON, NIOSH
SMITH, ROBERT, NIOSH
TOMES, TOM, NIOSH
ZACCHERO, MARY JO, ORAU
ZEITOUN, ABE, SC&A
ZIEMER, MARILYN

P R O C E E D I N G S

(8:30 a.m.)

(NOTE FROM THE COURT REPORTER: During the following meeting, severe difficulty with the telephonic connections ensued. The reader will find many "unintelligible" notations during these sections, signifying spots in the communication which were simply impossible for the reporter to decipher. Following is the ultimate effort by the court reporter.)

WELCOME AND OPENING COMMENTS**DR. PAUL ZIEMER, CHAIR****DR. CHRISTINE BRANCHE, DFO**

1 **DR. BRANCHE:** Welcome to the 54th meeting of
2 the Advisory Board on Radiation and Worker
3 Health. I'm Christine Branche and I'm your
4 Designated Federal Official for this meeting.
5 I'll start off by letting you know that the
6 emergency exits for this meeting room are
7 straight through the door and either to the
8 right or to the left -- you have to go all the
9 way out. If you go straight out through the
10 door that's in front of you, you will go to the
11 pool. But for emergency access purposes you
12 need to all -- to the farthest extensions to
13 the right or the left of the building.

1 The policy on redaction of Board meeting
2 transcripts are as follows: If a person making
3 a comment gives his or her name, either here in
4 the meeting room or by telephone, no attempt
5 will be made to redact that name. NIOSH will
6 make -- the National Institute for Occupational
7 Safety and Health will take reasonable steps to
8 ensure that individuals making public comment
9 are aware of the fact that their comments,
10 including their name if provided, will appear
11 in a transcript of the meeting posted on a
12 public web site. Such reasonable steps include
13 a statement read at the start of each meeting -
14 - excuse me, each public comment period,
15 stating that transcripts will be posted and
16 names of speakers will not be redacted. A
17 printed copy of the statement mentioned -- that
18 I just mentioned will be displayed on the table
19 where individuals sign up to make public
20 comment. A statement such as that I -- that I
21 just read will also appear with the agenda for
22 the Board meeting when it is posted on the
23 NIOSH web site. As well it will appear in the
24 *Federal Register* notice. If an individual, in
25 making a statement, reveals personal

1 information such as medical information about
2 themselves, that information will not usually
3 be redacted. The NIOSH Freedom of Information
4 Act coordinator will, however, review such
5 revelations in accordance with the Freedom of
6 Information Act and the Federal Advisory
7 Committee Act and, if deemed appropriate, will
8 redact such information. All disclosures of
9 information concerning third parties will be
10 redacted. If it comes to the attention of the
11 Designated Federal Official that an individual
12 wishes to share information with the Board, but
13 objects to doing so in a public forum, the
14 Designated Federal Official will work with that
15 individual in accordance with the Federal
16 Advisory Committee Act to find a way that the
17 Board can hear such comments.

18 Mr. Presley, are you still on the line?

19 **MR. PRESLEY:** I sure am.

20 **DR. BRANCHE:** Okay. Mr. Presley, given that
21 you'll be -- you'll be participating for the
22 entire meeting by telephone, if you lose
23 contact for any reason, could you please take
24 down the number that I'm about to give you?
25 Area code 813-623-6363. That is the number for

1 the hotel, which is the Crowne Plaza, and we
2 are in the Cypress Room. And if you could let
3 someone know that you've lost contact, they
4 will alert us here. Again, that number is area
5 code 813-623-6363.

6 **MR. PRESLEY:** Got it.

7 **DR. BRANCHE:** Thank you. If everyone
8 participating on -- by phone would please mute
9 their lines, you can use the mute button. And
10 if you do not have a mute button, then please
11 dial star-6 to mute your line. That will allow
12 the transcriber to be -- or the court reporter
13 to be able to have a clear line and everyone
14 will be able to hear all of the information
15 that is taking place during the meeting. When
16 you're ready to speak and you do not have a
17 mute button, then please dial the same star-6
18 to unmute your phone.

19 Thank you very much, and -- Dr. Ziemer.

20 **DR. ZIEMER:** Thank you very much, Dr. Branche,
21 and welcome, everyone, to this meeting of the
22 Advisory Board. You notice that we usually
23 start our meetings with a half-hour welcome by
24 the chairman. Now I've learned from John
25 Poston that the way you do that is you say

1 "Howdy" real slow, as they do in Texas, and
2 even that's not enough to fill the half-hour.
3 But we have a special treat today and I'm going
4 to refer to that in just a moment.

5 I have to make my usual reminders that, if you
6 haven't already done so, please register your
7 attendance with us. The registration book is
8 in the corridor just outside of this room.
9 Secondly, any members of the public who wish to
10 address the Board at the public remarks portion
11 of this meeting, there's a sign-up sheet for
12 you as well. Please make use of that.
13 And thirdly, there should be a table -- and I
14 think it's also in the corridor -- with -- or
15 maybe -- oh, it's in the back of the room, with
16 the papers and documents and other materials,
17 including the agenda, for this meeting. So you
18 can avail yourself of that.

19 **COMMENTS FROM DR. LEW WADE**

20 Over the past little over three years we've
21 been privileged to have as our Designated
22 Federal Official Dr. Lewis Wade. This is
23 actually Dr. Wade's last meeting, and he is
24 actually here almost as an observer now. But
25 Dr. Wade, we welcome you this last time and, if

1 you would, come up and you -- you may address
2 the Board, or you can use the podium if you
3 wish, or if you have a special routine you can
4 just do it right out here in the front --
5 whatever you wish to -- you're free now; you're
6 not a member of this Board. You can do or say
7 what you wish.

8 **DR. WADE:** Well, I'll do it from here. Thank
9 you very much, Paul. It's indeed an honor to
10 be here, as it has over the last three years.
11 This morning what I'd like to do is just
12 provide you with a bit of an update on the
13 status of things, and then take a moment to
14 thank the Board members for -- for their
15 service.

16 By way of the update, Dr. Christine Branche is
17 now the Designated Federal Official for this
18 Board, officially named and sanctioned. She
19 also has taken over as the Technical Project
20 Officer on the SC&A contract, so she fills both
21 of those roles.

22 As for me, I'll be around, helping as I can and
23 filling in for Christine at an odd meeting of a
24 workgroup or a subcommittee here or there as
25 she needs me. The one thing I am committed to

1 do is to work with the Board and Christine to
2 see that the recompetete of the Board's
3 contractor happens appropriately, and I'll work
4 on that with Christine and see that through to
5 its completion.

6 So those are sort of the updates.

7 My thank you really needs to begin, as I think
8 any discussion of this Board's business needs
9 to begin, by thinking about the hundreds of
10 thousands of men and women at the hundreds of
11 sites that helped this country fight and win
12 the Cold War, that have given their life
13 service to our security, our security as a
14 nation. I think we can't forget those people
15 in anything we do.

16 There is a national program, as you know, that
17 was put in place to compensate those among that
18 number who have contracted cancer. That
19 program is not simply a compensation program,
20 but it's a program that looks at compensating
21 individuals if it can be demonstrated that
22 their cancers was as likely as not caused by
23 their exposure. People don't just join the
24 Special Exposure Cohort. There's tests that
25 they need to undergo. Those tests really go to

1 the issue of whether their doses can be
2 reconstructed with sufficient accuracy.
3 The laws and rules that control those
4 activities are clear, and they put some rigor
5 between us and the compensation of those
6 people. And this Board fills in in terms of
7 that space.

8 Let me tell you about the very good news that
9 19,000 individual dose reconstructions have
10 been completed. More than a billion dollars
11 has been paid to those former workers based
12 upon individual dose reconstructions and people
13 joining the Special Exposure Cohort. There
14 have been 28 new classes added to that Special
15 Exposure Cohort. So a great deal of positive
16 things have happened relative to those heroes
17 of our nation.

18 Thanks go to many, many people. I would be
19 remiss if I didn't look to my colleagues at
20 NIOSH and commend them on their work -- their
21 hard work that have resulted in these dose
22 reconstructions and this compensation. The
23 contractors that support this program, their
24 efforts can't be overlooked.

25 But then you come to this Board in the role of

1 is the cancer as likely as not, has sufficient
2 accuracy been met -- that begins to define the
3 work of this Board. The Board has in its
4 charter a review of the scientific validity and
5 quality of dose reconstructions. The Board
6 advises the Secretary of Health and Human
7 Services on whether classes should be added.
8 I don't have to tell you the tremendous amount
9 of work that's involved in that. Those of you
10 who sit on the Board, anyone who's observed the
11 Board, understands this tremendous undertaking.
12 I count 16 workgroups. There are Board members
13 who serve on six or more workgroups. This is a
14 tremendous amount of work, hard work,
15 dedication of your time, jetting across the
16 country to all kinds of places -- as exotic as
17 Cincinnati or Tampa, Florida -- and making the
18 sacrifice.

19 But what I would leave you with is not just
20 remembering your hard work, because we all know
21 people who work hard, but the tremendous
22 compassion that this Board has brought to its
23 work. The Board has never forgotten who it
24 truly serves, and those are those hundreds of
25 thousands of people who won the Cold War for

1 our nation. This Board has demonstrated a
2 compassion for those people that I think is
3 worthy of note, worthy of my personal comment,
4 and I thank you all for that. Your hard work
5 and your service to those people have been a
6 joy for me to watch, and I have certainly been
7 inspired by it. And I thank you again for your
8 public service.

9 **MS. MUNN:** Thank you, Lew.

10 **DR. ZIEMER:** Lew, thank you very much. I'm
11 going to now read a letter into the record.
12 This is a letter signed by the Board members,
13 and I will transmit it on to you as well, Lew,
14 after it is completely signed. We have to get
15 Robert Presley's signature on it as well. That
16 is if Robert doesn't object after hearing it.
17 But anyway, without objection, Lew, this letter
18 comes from the Board and I will read it on
19 their behalf.

20 Dear Lew: As members of the Advisory Board on
21 Radiation and Worker Health, we wish to thank
22 you for your dedicated service as Designated
23 Federal Official and Executive Secretary of the
24 Board for the past three years. Your sage
25 advice and sound wisdom have been beneficial in

1 helping the Board carry out its
2 responsibilities fairly and efficiently. Your
3 wise counsel has helped us focus and prioritize
4 our activities, and to stay on track amidst the
5 many complex issues with which the Board has
6 had to deal. We all appreciate your gracious
7 spirit and your regular words of encouragement.
8 As you move on to other activities and
9 responsibilities, we wish you the very best.
10 We will miss you, of course, but if you ever
11 find yourself bored and in need of excitement
12 in the future, please know that you are welcome
13 to join us at any future meetings. We will be
14 more than happy to give you up to ten minutes
15 for public comment.
16 Our sincere good wishes, signed by the Board.
17 Thank you, Lew, again.
18 And we're pleased to have Christine Branche to
19 pick up the torch and -- and carry it, and
20 although she's been here a while, welcome
21 again, Christine, to these activities and
22 responsibilities.

23 **DR. BRANCHE:** Never a dull moment.

24 **DR. ZIEMER:** We will follow the agenda as set
25 forth -- as published. You recognize that the

1 time specified on each item is an estimated
2 time. We necessarily will expand or contract,
3 as the need arises. I told someone earlier I'm
4 not sure if this is a four-day meeting squeezed
5 into three or whether it's a two-day meeting
6 stretched into three; we never know exactly how
7 much time we need for some of these activities
8 and discussions. But nonetheless, let us
9 proceed.

10 **MASSACHUSETTS INSTITUTE OF TECHNOLOGY SEC PETITION**

11 We will begin first with the petition on the
12 Massachusetts Institute of Technology. LaVon
13 Rutherford will make the presentation for
14 NIOSH, and then we'll have an opportunity to
15 hear from the petitioners as well.

16 **MR. RUTHERFORD:** Thank you, Dr. Ziemer, the
17 Board and public, for giving me this
18 opportunity to speak on behalf of NIOSH and our
19 -- what we had attempted to, our evaluation of
20 the Massachusetts Institute of Technology. We
21 had intended to present the evaluation report
22 for this site. However, late in the process we
23 ran into some issues that we had to pull back
24 that evaluation. I intend to give you a kind
25 of a chronology of events, what occurred and

1 how we got to where we are, and what we plan to
2 do to get that evaluation out.

3 On October 18th, 2007 we sent a letter to a
4 petitio-- to a claimant, letting that claimant
5 know that dose reconstruction was not feasible
6 for the Massachusetts Institute of Technology.
7 We also provided that claimant a -- the
8 necessary information to submit a petition --
9 an SEC petition.

10 On October 31st NIOSH received that Form A back
11 from the petitioner and initiated the 83.14 SEC
12 process.

13 On January 17th we sent a -- the draft class
14 definition, which is our standard process. We
15 sent the draft class definition for MIT to the
16 Department of Labor to ensure that they could
17 administer the class as written.

18 On January 25th NIOSH received a response from
19 the Department of Labor regarding that class
20 definition. The Department of Labor requested
21 that NIOSH clarify or specify that there are --
22 would be two separate class designations for
23 this and that one would be for MIT and the
24 other for the Hood Building.

25 We considered that comment by the Department of

1 Labor, but did not act on that comment. The
2 Department of Energy web site currently
3 identifies the MIT and the Hood Building as one
4 facility under the MIT designation, with an AWE
5 and a DOE period of operation. We found out
6 later that actually a *Federal Register* notice
7 had not been issued identifying a change in the
8 facility designation.

9 On February 22nd of this year we issued our
10 evaluation report for MIT. On March 11th we
11 received a second letter from the Department of
12 Labor raising the same concern with the class
13 definition. We immediately contacted the
14 Department of Labor to discuss their concern.
15 The Department of Labor indicated that although
16 the DOE web site web site lists the MIT and the
17 Hood Building as one facility under the MIT
18 heading, the process of officially designating
19 them as separate facilities was underway.

20 At that time we felt we could still go forward
21 with our evaluation, but we wanted -- what we
22 would do was we would issue an addendum to our
23 report and we would identify two separate
24 classes, one for the Hood Building and one for
25 the AWE period of MIT.

1 However, during the process, on March 19th,
2 2008 -- during the process of preparing that
3 addendum we recognized that with it -- the Hood
4 Building being a DOE facility, MIT may have not
5 been the sole prime contractor for that
6 facility. Additional contractors may have been
7 operating that Hood Building, and in fact we
8 recognized that Nuclear Metals, Inc. was
9 contracted to perform metallurgical work in the
10 Hood Building in 1954. We recognized at that
11 time we had not reviewed Nuclear Metals, Inc.
12 documentation for this evaluation.
13 So on March 21st we sent an e-mail to the
14 Advisory Board pulling back the SEC evaluation
15 report for MIT. We contacted the MIT
16 petitioner to explain the situation.
17 So now we -- we pulled the report back. Now
18 I'm going to discuss what we're going to do
19 from this point forward to get this evaluation
20 complete.
21 We have indication that there may be a file at
22 the -- at MIT that might have -- may identify
23 additional contractors who operated the Hood
24 facility. We are going to go try to get that
25 file and review that file. We're also

1 reviewing all documents associated with Nuclear
2 Metals, Inc., and any other contractor that we
3 do identify during the process, we will review
4 their documents as well. In addition, if we do
5 identify additional contractors, we will
6 request any documentation they may have.
7 After we've received and reviewed all the
8 documents, we will determine if this -- if the
9 documents change our feasibility determination.
10 If the feasibility does not change, we plan to
11 issue an evaluation report prior to the June
12 Board meeting, and we will present that
13 evaluation at that meeting. And it will be
14 specific to the Hood Building and its covered
15 period.

16 At this time we have no existing claimants that
17 worked at MIT during the AWE period of 1942
18 through 1946, so at this time we do not plan to
19 issue an evaluation report for that period of
20 1942 to 1946.

21 And that's it. Questions?

22 **DR. ZIEMER:** Okay. Thank you, LaVon. Let me
23 ask, Board members, do you have any questions
24 before we hear from the petitioner -- and
25 you'll have a chance again if -- after that as

1 well.

2 (No responses)

3 Okay. I want to check and see if [name
4 redacted] is on the line. [Name redacted], are
5 you with us this morning?

6 (No responses)

7 [Name redacted], are you on the line?

8 (No responses)

9 He's not going to be? Okay, I was told he
10 would be, but -- oh, okay, I -- oh, I -- yes, I
11 see now. I interpreted that wrong. Thank you.
12 Thank you.

13 And since, in essence, this has been put back
14 on hold till we get the new ER, so that's the
15 status. Any further questions then at this
16 point?

17 (No responses)

18 Okay, thank you very much. Thank you, LaVon.

19 Then we're ready I think to move on. This is
20 one of those cases where we didn't need the
21 full time that we anticipated originally.

22 The next item on the agenda is an SEC petition
23 from Texas City Chemicals, and Dr. Neton from
24 NIOSH will make that presentation for us.

25 Then, again, we'll have an opportunity in this

1 case to hear from some petitioners by phone.
2 Let me check and make sure they are on the
3 line. Christine Ray, are you on the line? And
4 Dan McKeel, are you on the line?

5 (No responses)

6 One problem, if they have the agenda and they
7 think it's not going to start till 9:45, that
8 could be a problem.

9 (Pause)

10 I'm -- I'm -- give us a minute here. I think,
11 in fairness to the petitioner since the -- the
12 agenda called for this to occur at 9:45, I'm --
13 and I'm suspecting that they will want to --
14 they -- they indicated they would be here by
15 phone, and it may not be fair to them to start
16 that early. Let's take a minute and we'll see
17 what we -- if we can juggle something here.
18 Just stand by.

19 (Pause)

20 ... check -- John Mauro, is Kathy Behling here
21 yet, do you know?

22 **DR. MAURO:** She's flying in this morning. She
23 --

24 **DR. ZIEMER:** Okay, so we can't --

25 **DR. MAURO:** -- probably won't be available till

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DR. ZIEMER: -- move that one up. Thank you. Larry, what's the possibility of getting your presentation on quality assurance early? Is that -- catch you off-guard here, it was for this afternoon.

MS. BEACH: I think that should wait until a couple more Board members are here.

DR. ZIEMER: Yeah.

MS. BEACH: That's an important one, I believe. Sorry, Larry.

MR. ELLIOTT: That's fine.

DR. BRANCHE: I would say the same for procedures as well.

MS. MUNN: Plus we have to have Kathy.

DR. BRANCHE: Yeah -- we don't need to have Kathy, but -- she's critical to --

DR. ZIEMER: No, we do for that.

DR. BRANCHE: Is there something from...

DR. ZIEMER: Now I think -- let me just look here -- all of these have petitioner --

MR. ELLIOTT: Dr. Ziemer -

NIOSH PROGRAM UPDATE

DR. ZIEMER: NIOSH program update, can we do that? That might be --

1 **MR. ELLIOTT:** I think I can struggle through
2 that.

3 **DR. ZIEMER:** Okay. Okay, we'll -- we'll pull
4 that forward from tomorrow's agenda, the NIOSH
5 program update.

6 **MR. ELLIOTT:** So we're ready?

7 **DR. ZIEMER:** Okay, Larry Elliott will present
8 this.

9 **MR. ELLIOTT:** Well, good morning, Board members
10 and members of the public, and colleagues.
11 I'll try my best here, and I may need to follow
12 up with information that I have upstairs in my
13 room on some of these if I have questions
14 relevant to a particular point, so if you would
15 bear with me in that regard, I'd appreciate it.
16 These are the standard set of slides that we go
17 through to provide the Board and the public a
18 program status report, as you've seen in the
19 past. To date, or as of March 31st of this
20 year, 26,876 cases have been referred to NIOSH
21 for dose reconstruction. And of those, 71
22 percent or 19,046 have been returned to the
23 Department of Labor for a decision or for a
24 final adjudication. Of that 19,046, 16,780
25 arrived at DOL with a dose reconstruction

1 report; 701 were pulled by the Department of
2 Labor from our case -- our claim pool, for a
3 variety of reasons. And as we have talked
4 about in the past, these can range from claims
5 that were sent to us early on in the program
6 that shouldn't -- not have been sent to us,
7 they were toxic chemical exposure claims, or
8 they might have been a chronic lymphocytic
9 leukemia claim, a variety of other reasons why
10 these were pulled from us, so we did not do any
11 work on those 701 claims that were returned.
12 There are 1,565 claims or cases that have been
13 returned to DOL because we feel that they --
14 and DOL feels that they might fit into one of
15 the classes that have been added to the Special
16 Exposure Cohort. Twenty-three percent or 7,468
17 cases now remain at NIOSH for dose
18 reconstruction.

19 We have a process where we complete a dose
20 reconstruction report and we give it to the
21 claimant, and we ask the claimant to assert in
22 an OCAS-1 form that they have no further
23 information to provide on that claim. And when
24 we don't receive that form, we wait a total of
25 about 74 days -- the rule calls for 60 days and

1 then we give another 14 days grace -- and if we
2 don't hear from them -- from the claimants with
3 regard to whether they have information or not,
4 we administratively close the dose
5 reconstruction. We can open this dose
6 reconstruction at any point in time where the
7 claimant may find that they have additional
8 information, or they wish for us to move the
9 claim on to Department of Labor. So we have
10 362 of those claims that are administratively
11 closed at this time.

12 The pie chart that I typically provide you
13 breaks down the case status of all of our
14 claims into these categories -- those that are
15 completed, those that are pulled, those that
16 are pulled for SEC purposes and the
17 administratively closed claims that you see
18 here in red. The active cases are shown in
19 yellow, and then the cases that are pending --
20 and pending means that there is some technical
21 hold on the case or there's some issue that
22 we're trying to resolve before the case can
23 move forward.

24 Of the 16,780 dose reconstructions that we've
25 returned to Department of Labor for final

1 adjudication, we believe that 34 percent had a
2 POC greater than 50 percent, or were found to
3 be compensable. That's -- that leaves 66
4 percent, or 10,811 cases, where a POC of less
5 than 50 percent was determined by the
6 Department of Labor and thus the claim was
7 deemed non-compensable.

8 This bar graph shows you the -- in decile
9 breakdown the probability of causation as it
10 ranges across zero to ten percent and on up to
11 greater than 50 percent. And you can see the -
12 - these numbers total up to those 16,000 that
13 we reported earlier.

14 Of the 7,468 cases remaining at NIOSH for dose
15 reconstruction, 3,203 are currently assigned at
16 some stage of development with a health
17 physicist in dose reconstruction; 926 initial
18 draft dose reconstruction reports are currently
19 in the hands, as of March 31st, of the
20 claimants. And here's where we're waiting for
21 their review of this report and the return of
22 the OCAS-1 form. There are 3,339 cases
23 currently not assigned in dose reconstruction,
24 means they're in some stage of development or
25 awaiting assignment to a dose reconstructor.

1 4,476 claims are now older than a year, or 60
2 percent of our active case load.
3 We continue to maintain our vigilance in our
4 attention on the oldest claims. We're trying
5 to work those as quickly as we possibly can.
6 And this slide reports our efforts on the
7 oldest claims, or the first 5,000. We have
8 generated dose reconstruction reports and
9 provided those to DOL for 3,568. Of the first
10 5,000, 72 are sitting at administrative closed
11 situations. We have 251 out of the first 5,000
12 that have been pulled by DOL for some reason,
13 and we have 211 cases that were SEC-related
14 cases and returned to DOL for that reason.
15 There are three dose reconstructions currently
16 with the claimant for review. And DOL has
17 returned to us -- this number grows, as you
18 know, because of our Program Evaluation
19 Reviews, but they have returned 848 claims to
20 us for a rework. This leaves a total of 47
21 claims awaiting dose reconstruction, and we --
22 I monitor these 47 claims on an individual
23 basis, along with several of my staff. A
24 number of these 47 claims are awaiting SEC
25 determination -- NUMEC Apollo, NUMEC Parks are

1 listed in this mix of 47 -- and all of the
2 remaining claims are at some stage of
3 completion, either SEC or a technical issue
4 being resolved with regard to their status.
5 This line graph gives you a sense of trend of
6 how the claims were initially received and how
7 we've worked against those back -- the backlog
8 from the initial receipt. The blue line here -
9 - I'm sorry, I don't have a pointer with me,
10 but the light blue line indicates those cases
11 that were received from the Department of
12 Labor, and you can see the huge number of
13 claims we received in the early days of the
14 program. The red line indicates those that we
15 have returned to the Department of Labor for
16 decision, and the green line indicates those
17 draft dose reconstruction reports provided to
18 the claimants. And you can see that in the
19 third quarter of 2007 we started building
20 another backlog, essentially, not working off
21 as many claims -- thank you very much -- not
22 working off the claims as quickly as we were
23 receiving them. So right in here, I'm
24 monitoring -- if I can get my -- well --
25 It bounces all over the place.

1 Well, you can see where I'm talking here, I
2 hope. That's weird. And so we're watching
3 this very closely. This is a result of I think
4 several dynamics, this late building of a
5 backlog. One dynamic, our inability to utilize
6 all of our budget -- thank you.

7 Well, that won't work, either. Now I've got
8 two pointers and I'll have to return all those
9 to rightful owners.

10 At any rate, this backlog is a result of
11 several dynamics, one of which is our inability
12 to utilize all of our appropriated funds during
13 that fiscal year.

14 Here we come with a third pointer so that I can
15 be very illustrative to the audience, and I
16 think this -- this one looks like it's working.
17 Gotcha. Gotcha. I've got to be careful. I
18 want Ms. Munn to sit down before I wave this
19 one around.

20 The se-- oh, wow, look at this. Now there's a
21 pointer for you.

22 Another dynamic has been an extensive
23 frustration with us in the attempts to compete
24 and award a new technical support contract on
25 dose reconstruction. As many of you know, our

1 ORAU contract and the support they provide to
2 us ended its first five -- ended the five-year
3 award period back in September, September 11th,
4 2007. And so we've been operating on a
5 contract modification extension process where
6 we give them three or four more weeks, five or
7 six more weeks, and we can't just infuse enough
8 to get the capacity up in that regard. So
9 there's a lot of things going on here.

10 It's my hope that once we get our -- we now are
11 under -- we are under no continuing resolution
12 process. We can utilize all of our funds, but
13 we now have to face the award of this contract
14 before we can get back up to full speed in our
15 work.

16 This bar graph shows you, in 1,000 increments,
17 the status of claims across our claim
18 population. The -- and we start over here with
19 the administratively closed in I believe a
20 purple -- if you're not color blind and you can
21 see that. It's generally at the top of this
22 bar. So each purple -- the purple represents
23 those that are administratively closed at this
24 time. The yellow represents those that are an
25 SEC case in that given column. The green --

1 light green here, lime green, indicates those
2 cases that are pending for some technical
3 reason or some demographic case-related reason
4 that we're going back to DOL to find more
5 information on in order to do our work. The
6 brown or the -- this color, whatever that is,
7 is the active cases that we're dealing with.
8 And then the red are those that are pulled, for
9 whatever reason, and then the blue -- light
10 blue or almost white here is cases that are
11 completed within those 1,000 increments.
12 This chart shows you the number of reworks that
13 NIOSH has received, as well as those that have
14 been returned to the Department of Labor. As
15 you know, our rework numbers increased
16 dramatically at the second quarter of 2007, we
17 started seeing this kind of a trend. That
18 result is from our Program Evaluation Reviews,
19 and primarily the -- the first one, the big
20 one, onset of the highly insoluble plutonium
21 super S issue. And so a number of these are
22 relative to that Program Evaluation Review.
23 Prior to that, typically what we were seeing
24 was, you know, a set of claims that were going
25 back and forth between us and DOL, returned to

1 us for rework because of some demographic
2 issue, not so much technical issues that we
3 were dealing with. And now we're starting to
4 deal with these technical issues that are
5 exhibited and reported out in our Program
6 Evaluation Reviews. I'll have more on that set
7 of reworks in another slide.

8 The number of outstanding requests -- as you
9 know, we turn to the Department of Energy and
10 we seek exposure information, bioassay
11 information, monitoring information on these
12 claims for that particular claim's employment
13 at whatever site the Energy employee worked.
14 We have 478 of these right now open, awaiting a
15 response from DOE. We check these every 30
16 days. At 60 days we start asking hard
17 questions about why is it taking so long, are
18 you going to find anything, when will you find
19 something, and so we follow up on those. We
20 monitor -- after 60 days we've got 188 of those
21 that we're -- we're watching very closely and
22 DOE's response to our requests.

23 At one point in our program we changed our
24 tactics a little bit. We -- at the start of
25 the program we had tactically decided to expend

1 our resources and our efforts on those sites
2 that had large numbers of claims, and that left
3 unattended the smaller sites, mainly AWE --
4 Atomic Weapon Employer -- sites where we had
5 really small numbers of claims. And so in 2005
6 we started working in that area very strongly
7 and actually added another contractor to help
8 us on that work. That was Battelle. We did
9 that so we could see, you know, how quickly
10 another contractor could get up to speed on
11 doing some of these types of sites. And from
12 that effort was generated two Technical Basis
13 Documents, 6000 and 6001. And because of that,
14 we realized that the variety of work that was
15 done at these Atomic Weapon Employer sites
16 required us to develop what we call appendices
17 to those two Technical Basis Documents that
18 speak to the unique exposures that were
19 attendant to those types of operations at a
20 given site. And so we have identified for TBD-
21 6000 the need to have site-specific appendices
22 for 16 -- or 15 different sites, and we have
23 completed or -- excuse me, 17 of those were
24 needed for TBD-6000. We have completed 15 of
25 those. We have one that is now in review and

1 we have one that remains in development.
2 For TBD-6001 there are six site-specific
3 appendices and all six have been completed.
4 Again back to Program Evaluation Reports, I
5 probably should move that graphics slide closer
6 to this slide and then I can follow on with the
7 discussion about PERs here. To date we have 32
8 Program Evaluation Reviews that have been
9 issued. These are on our web site. The
10 affected claims that are represented in these
11 Program Evaluation Reviews total up to 13,896.
12 I caution you again that that's an inflated
13 number because many Program Evaluation Reviews
14 deal with the same claim, and we count each one
15 separately, so that's why we have such a large
16 number here. But we have to -- we have to look
17 at each claim against each Program Evaluation
18 Review. The claims that -- after we have done
19 this review, the claims that we have witnessed
20 to date that have changed and shown an increase
21 to greater than 50 percent in a probability of
22 causation has been 157, and the lymphoma PER is
23 the primary contributor here with I believe 154
24 of those. The other three I think are
25 sprinkled -- there may be a couple at Bethlehem

1 Steel PER, but primarily the lymphoma PER has
2 resulted in the -- in the -- a large number of
3 those that have become compensable. 6,700 --
4 or -- yeah, 6,769 claims have been evaluated
5 and reviewed, and no change has resulted in the
6 probability of causation, and perhaps no change
7 in the dose reconstruction report itself. We
8 have 6,970 claims still in evaluation under
9 these Program Evaluation Reviews, and we're
10 moving through those as quickly as possible.
11 I think Dr. Ziemer mentioned in his letter --
12 or maybe Dr. Wade mentioned in his summary --
13 that there have been 28 SEC classes added, and
14 that is true. But as of March 31st there were
15 only 25 for this slide when it was made up.
16 The other three I think are coming to maturity
17 today. Those other three are mature today.
18 The 30 days has passed for Congress to take any
19 action and they took no action, and so this
20 number shou-- is -- if I were to make this
21 slide up today, it would say 28. I think it's
22 important that we speak about the 16 here, 59
23 percent of those 25 were developed through the
24 83.13 process. That's where a petitioner has
25 submitted a petition asking us to consider and

1 evaluate it. Nine of these 25, or 41 percent,
2 have been processed through the 83.14 process,
3 and that's where we have identified a claim
4 that we cannot reconstruct the dose and we work
5 with that particular claimant to file a Form A,
6 and we process it accordingly to this Section
7 of the rule. These 25 SEC classes represent
8 workers across 19 sites. And I believe, if we
9 look at the 28, that -- that would be -- if
10 we're looking at 28 SEC classes, this would be
11 23 -- 22 sites -- 22 sites. All of this
12 represents 1,565 potential claims, and I don't
13 have the number for the additional three that
14 were added -- completed today.

15 As I mentioned earlier, we're -- continue to be
16 frustrated in our efforts to award the contract
17 on support for dose reconstruction. It's taken
18 us -- taken our procurement and grants folks a
19 considerable amount of time and effort to
20 process this competitive procurement proc--
21 award process, and so where we're at right
22 today is -- well, back up. The request for our
23 proposal was published back in May of last
24 year. The proposals were due in June 15th and
25 they were all received then. There was a set

1 of questions that were answered and the
2 proposals were amended based upon those
3 questions -- based on the response to those
4 questions back in October of last year, and
5 that also is after the conclusion of the
6 current contract period. And so we entered
7 into contract modifications at this point in
8 time to extend the contract so that continuity
9 of service would be provided to the claimants
10 and to the government. So the proposals are
11 still being processed in our procurement review
12 process and they're still being examined there,
13 and we hope that by May 31st, next month, we'll
14 have an award issued.

15 And I think that concludes my presentation.

16 I'm happy to answer questions if I may.

17 **DR. ZIEMER:** Thank you very much, Larry. Board
18 members -- see who has first question -- Wanda
19 Munn.

20 **MS. MUNN:** Larry, back in one of your early
21 slides you indicated that we had approximately
22 the same number of cases already assigned to
23 health physicists for dose reconstruction and
24 just a few more cases not yet assigned. Given
25 the problems we've had with operating under

1 continuing resolution for so long and our
2 concerns that we always have with respect to
3 overload of the staff at NIOSH, do you feel
4 that -- that you have what you need in the way
5 of staff to address this almost even
6 distribution between assigned and unassigned
7 cases, especially given the problems that arise
8 with the amount of time necessary to review the
9 cases that are coming as a result of the PERs?

10 **MR. ELLIOTT:** We want to manage this program
11 with excellence. And right now I feel what
12 we're doing is managing the situation with
13 excellence. That is that we don't have a full
14 complement of staff because we can't put enough
15 money on the table for ORAU to bring back
16 everybody to work in a -- in a short amount of
17 time. So really ORAU's operating with a -- not
18 a skeleton staff, but a very scaled-down
19 structure because they can't infuse -- we can't
20 give them enough money and they can't bring
21 everybody back to work like we would like under
22 this contract extension phase. So as soon as
23 that award comes, whoever that contractor is, I
24 hope that we'll be able to regain the capacity
25 that we enjoyed back in 2006. It's been that

1 long since -- that was our high water mark. We
2 achieved a capacity of production and capacity
3 of support that put out 6,000 dose
4 reconstructions in that year, and handled a
5 number of SEC classes. And we really need to -
6 - in one year's time, with this backlog that
7 we're building and oldest claims that we're
8 still trying to work through, we really need to
9 see, you know, that capacity and more. And so
10 I -- I don't know if I've answered your
11 question as clearly as you would like, but
12 we're managing the situation with excellence, I
13 hope and I believe. We'd like to manage the
14 program with excellence, but we can't do that
15 until we're able to infuse this new -- the
16 contractor with the amount of money that's
17 necessary to do that.

18 **MS. MUNN:** Is there good news or bad news with
19 respect to the budget line items?

20 **MR. ELLIOTT:** Well, each year we put forward a
21 budget request, and for -- we know what our
22 budget is for FY08 and we put forward a budget
23 request for FY09 that should attend to this
24 capacity problem that I've spoken about. And
25 so the awarding of this contract and the timing

1 of that awarding we feel is beneficial. By
2 that I mean it's mid-year. And so -- it's mid-
3 fiscal year, so each time a -- our
4 appropriations comes through in a fiscal year,
5 we can look forward to this -- to the cycle of
6 this contract being every mid-year we'll have
7 two years -- we'll be working on two years'
8 worth of money to infuse into that contract --
9 if anybody understands what I'm trying to say.
10 It's very complex, but I think we will be able
11 to show you increase in production up to the
12 capacity that we once enjoyed.

13 **MS. MUNN:** That was essentially my concern.
14 Thank you.

15 **DR. ZIEMER:** Josie?

16 **MS. BEACH:** Larry, back on slide 15 you have 16
17 percent the 83.13 and then you -- you indicated
18 that some of those you determine will become an
19 83.14. Can you give me an idea of why some of
20 them you recommend to go to 83.14s and why some
21 of them you may use surrogate data for?

22 **MR. ELLIOTT:** This slide?

23 **MS. BEACH:** Yes.

24 **MR. ELLIOTT:** Okay. Sixteen of these were
25 83.13. That's where a petitioner sends us the

1 Form B, or a letter that says I want to
2 petition for this class.

3 **MS. BEACH:** Correct.

4 **MR. ELLIOTT:** The other instance is where we've
5 identified through our dose reconstruction
6 efforts that we cannot reconstruct a given
7 claim, and so we work with that claimant to
8 become a petitioner. I don't know where the
9 surrogate data comes in here. I --

10 **MS. BEACH:** Well, maybe I'll get to it later
11 on. In all cases when there's not a dose, do
12 you recommend for 83.14?

13 **MR. ELLIOTT:** Yes.

14 **MS. BEACH:** In all cases.

15 **MR. ELLIOTT:** Where there is an inability to
16 reconstruct the dose --

17 **MS. BEACH:** Okay, thank you.

18 **MR. ELLIOTT:** -- we would recommend an 83.14.

19 **DR. ZIEMER:** Larry, on slide seven, which is
20 those first 5,000 cases, the -- the 848 that
21 are returned from DOL, now what specifically is
22 -- where are they in the various queues? I
23 mean some of those must be awaiting dose
24 reconstruction again. Is that not true?

25 **MR. ELLIOTT:** There's -- yeah, we'd have to

1 look at almost every one of those 848 on an
2 individual basis to tell you where they're at.
3 There's a variety of reasons why these claims
4 are brought back to us. These claims, though,
5 would represent -- these 848 have already had a
6 dose reconstruction.

7 **DR. ZIEMER:** Right, understood, I just --

8 **MR. ELLIOTT:** Okay, so they're not -- it's not
9 they haven't been treated once. The 47, those
10 are my prime concern 'cause they've not ever
11 had an answer from us.

12 **DR. ZIEMER:** Those -- those are brand -- or --

13 **MR. ELLIOTT:** Those are -- those are active
14 cases, without ever having had a dose
15 reconstruction report or been told we can't do
16 one.

17 **DR. ZIEMER:** Right.

18 **MR. ELLIOTT:** The 848 could be, as I say, a
19 variety of reasons. One reason would be
20 they're a Program Evaluation Review claim that
21 DOL has returned to us and we have been asked
22 to evaluate it or rework it. And we'll
23 evaluate it and if -- if the claim is not
24 affected by the Program Evaluation Review,
25 we'll return that claim with a letter to DOL

1 saying this has been evaluated and there's no
2 effect, no change to the dose reconstruction.
3 If we look at it and evaluate it and say oh, we
4 need to rework this, then we will provide a
5 reworked dose reconstruction to the claimant
6 and to DOL.

7 **DR. ZIEMER:** So ultimately those 848 will sort
8 of subdivide into those other sub-categories
9 eventually.

10 **MR. ELLIOTT:** Yes.

11 **DR. ZIEMER:** Okay.

12 **MR. ELLIOTT:** And some of those may be that our
13 public health advisors have identified
14 something wrong with the demographics of the
15 claim and have talked to DOL and DOL said okay,
16 here, we'll kick it back. So there's a variety
17 of reasons. But I think the main point I want
18 to make here on those 848, they've had --
19 they've had an answer at one point in time, and
20 now they're being revisited because, for one
21 reason or another, that answer is not
22 satisfactory.

23 **DR. ZIEMER:** So there's really only 47 out of
24 5,000, which is --

25 **MR. ELLIOTT:** There's only 47, and that number

1 would drop to date --

2 **DR. ZIEMER:** -- that have never been --

3 **MR. ELLIOTT:** That number would drop to date
4 'cause some of those 47 are NUMEC Apollo, which
5 came -- I believe -- Parks, Parks came final
6 today. So --

7 **MR. RUTHERFORD:** Actually Apollo went final --

8 **MR. ELLIOTT:** Yeah, that's right.

9 **DR. ZIEMER:** Okay.

10 **MR. ELLIOTT:** But there are some here that are
11 -- we're awaiting the designations.

12 **DR. ZIEMER:** That was Mr. Rutherford who said -
13 - far away from the mike -- that -- that those
14 were NUMEC Apollo cas-- some of those are NUMEC
15 Apollo cases.

16 **MR. RUTHERFORD:** Actually some of those are
17 NUMEC Parks --

18 **DR. ZIEMER:** NUMEC Parks cases.

19 **MR. RUTHERFORD:** -- which we are presenting at
20 this Board meeting, so --

21 **MR. ELLIOTT:** I have --

22 **MR. RUTHERFORD:** -- Apollo has already went
23 final.

24 **MR. ELLIOTT:** I have the full list of 47, and I
25 can speak -- I don't have it here, I didn't

1 anticipate I'd need it right now; I have it in
2 my room, but I can bring that if you -- if
3 anyone wants to know what's going on with each
4 one of these 47.

5 **MR. RUTHERFORD:** I will add, though, that some
6 of those claims -- as Larry mentioned earlier,
7 the three that went final just recently will
8 take up some of those claims. That would be
9 Combustion Engineering and Lawrence Livermore.
10 I can't remember what the third one is off-
11 hand, so...

12 **DR. ZIEMER:** Will be from this group of 47 --

13 **MR. RUTHERFORD:** Yes.

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

15 **MR. RUTHERFORD:** Yes.

16 **DR. ZIEMER:** Thank you. Okay. Further
17 questions for Larry?

18 (No responses)

19 Apparently not. Again, Larry, thank you very
20 much --

21 **MR. ELLIOTT:** My pleasure.

22 **DR. ZIEMER:** -- a very succinct update.

23 (Pause)

24 **TEXAS CITY CHEMICALS, INC. SEC PETITION**

25 Let's see, I now want to check to see if the

1 Texas City petitioners are on the line. First
2 of all, Christine Ray, are you on the line this
3 morning?

4 (No responses)

5 How about Dan McKeel?

6 **DR. MCKEEL:** Yes, I am on the line.

7 **DR. ZIEMER:** Good morning, Dan. Dan, do you
8 know if Christine is going to be on the line
9 with us?

10 **DR. MCKEEL:** I know that a bunch of people,
11 including Christine, were supposed to be and so
12 I definitely expect she was going to be there
13 and I think she thought this was going to start
14 at -- well, she should be there now.

15 **DR. ZIEMER:** Well, we're -- we're just a few
16 minutes early, but we're going to take a moment
17 here and call her and see if she's ready to go.
18 We'll wait just --

19 **DR. MCKEEL:** We sort of agreed that my
20 presentation would be first, so -- but I do
21 think --

22 **DR. ZIEMER:** Well, in fairness, I do want her
23 to be able to hear the other presentations, so
24 we'll wait just a moment.

25 **DR. BRANCHE:** Yeah, when he was talking, the

1 buzz was on his end?

2 Okay. Dr. McKeel, could you please say
3 something more as a test?

4 (No responses)

5 Dr. McKeel, can you hear me?

6 **DR. MCKEEL:** Yes, I can.

7 **DR. BRANCHE:** Okay. There's a bit of a buzz on
8 your end. Is -- Mr. Presley, could you please
9 say something into -- into your phone?

10 **UNIDENTIFIED:** (Unintelligible)

11 **DR. BRANCHE:** Yeah, now there's a buzz.

12 **MR. PRESLEY:** I didn't hear you.

13 **DR. ZIEMER:** Okay. Are either of you speaking
14 by speaker phone?

15 **DR. MCKEEL:** No, I've got my -- I'm just using
16 my hand phone.

17 **MR. PRESLEY:** I've got a hand set.

18 **DR. BRANCHE:** Okay. Is there anything else I
19 should ask them to do?

20 Okay, I would just -- I would just caution you
21 all to -- Dr. McKeel, thank you for submitting
22 to my little test there. Dr. McKeel, when you
23 speak -- and I'll ask Dr. Ziemer to say this
24 when each person is given -- when each of the
25 petitioners is given an opportunity to speak,

1 if you could please speak slowly, because
2 apparently when you do speak, there's a bit of
3 a buzz in the line.

4 **DR. MCKEEL:** I shall; is this better?

5 **DR. BRANCHE:** No, actually that's a little
6 worse.

7 **DR. MCKEEL:** Okay, that's a little closer to
8 the --

9 **DR. BRANCHE:** Oh, actually that's better,
10 whatever you just started saying was much
11 clearer, and I don't know what you did, but --

12 **DR. MCKEEL:** I backed away from the hand set.

13 **DR. BRANCHE:** That's beautiful. Okay. Thank
14 you, we'll get started in just a moment.

15 **DR. MCKEEL:** Thank you.

16 **DR. BRANCHE:** If you could please re-mute your
17 line.

18 **DR. MCKEEL:** Thank you.

19 **UNIDENTIFIED:** Dr. McKeel, this is the
20 (unintelligible) in Texas City, Texas.

21 **DR. ZIEMER:** Oh, good, thank you. We were --
22 is Christine Ray there with you?

23 **UNIDENTIFIED:** Yes, Christine Ray is with us.
24 We wanted to let you know we're on line.

25 **DR. ZIEMER:** Okay, we're ready to proceed then

1 with the discussion of the Texas City Chemicals
2 petition, and first of all we're going to have
3 a presentation by NIOSH from Dr. James Neton,
4 then we'll have the opportunity to hear from
5 those who wish to speak on behalf of the Texas
6 City petition. So here's Dr. Neton. And while
7 you are listening, please mute your phone until
8 you're ready to speak. Thank you.

9 **DR. NETON:** Good morning. As our usual
10 practice, I'm here to present a summary of our
11 evaluation report for the Texas City Chemicals
12 petition that we received. I believe the
13 report was completed at the end of January, and
14 shortly thereafter was sent to members of the
15 Advisory Board and the petitioners. It's also
16 been posted on our web site for some time now.
17 What makes Texas City Chemicals an AWE is
18 listed here. They were engaged in phosphate
19 fertilizer, plant production, which is somewhat
20 different than the Blockson Chemical situation
21 that we've talked about. Blockson Chemical was
22 an existing phosphate fertilizer pla--
23 phosphate plant and the AEC opted to recover
24 the uranium from the -- essentially their
25 byproduct. In this situation the AEC actually

1 was engaged in a letter contract for Texas City
2 to construct a fertilizer plant, which they
3 could take advantage of the byproduct material
4 and pull off the uranium concentrate from the
5 phosphoric acid, so it's a little different
6 than the Blockson Chemical situation.

7 In addition to the phosphate fertilizer plant
8 and the capture of the byproduct material,
9 there was also a letter contract that we found
10 that indicated that the chemical extraction
11 research was also conducted at Texas City, and
12 that primarily involved looking at ways to have
13 a cheap recovery process for some of the ore
14 material that -- the leach -- the leach zone
15 matrix, as they called it, to try to extract --
16 get a better efficiency for extraction of some
17 of the byproducts of the original chemical --
18 the processing of the ores from the mines.

19 The covered period listed here is from 1952
20 through 1956. There also was a residual period
21 for this site that goes from 1957 through '77.

22 The petition was qualified on August 17th of
23 2007, based on the information provided by the
24 petitioners, and those are listed in the two
25 bullets provided here. That is that radiation

1 monitoring records of the members of the class
2 may have been lost, falsified or destroyed; or
3 that information regarding monitoring records
4 for Texas City Chemical workers is unavailable.
5 NIOSH certainly concurred with that, that we
6 have absolutely no monitoring records as far as
7 personal dosimetry or bioassay samples from any
8 workers at this facility.

9 The proposed class by the petitioners was all
10 employees who worked in all areas at Texas City
11 Chemicals from January 1st, '52 through the end
12 of -- through December 31st, 1956. The NIOSH
13 evaluated class was slightly different from
14 that in the sense that we replaced "all" with
15 the word "any," to indicate that a person would
16 not have had to work in all areas of the plant
17 in order to qualify for the class -- just a
18 subtle switch in words there.

19 Okay. As usual we list the available
20 information that we have to do dose
21 reconstructions here. First I might add where
22 did we look for monitoring data. We searched a
23 number of places. Amoco Corporation took over
24 the operation of the plant at one point so we
25 went to Amoco looking for records. We found

1 none there. We also did some inquiries to
2 various Texas -- State of Texas regulatory
3 bodies, found nothing of use from those
4 searches. Also looked for US EPA records,
5 struck out there. And also did a Federal
6 Records Center search in the Fort Worth-Dallas
7 -- Fort Worth, Texas area and found no
8 monitoring data there as well.

9 In addition, though, we did have information in
10 the site research database related to contract
11 information, as I mentioned. These typically
12 were letter contracts that discussed the
13 contract between Texas City Chemicals and the
14 AEC that started in February of 1952 to
15 construct this phosphate fertilizer plant. We
16 had source term and production data. The
17 source term at this site is natural-occurring
18 radioactive materials; that is mined phosphate
19 ore, in addition to the uranium that would have
20 been recovered as part of the process. And we
21 also had various AEC documents and memos to
22 work with.

23 In addition to that, we had some information
24 from the petitioners. We conducted interviews
25 with two former workers at the facility, and we

1 held outreach meetings in Texas City on October
2 18th, 2007 and November 15th, 2007.
3 In addition to that we had numerous information
4 on studies of the phosphate industry. The
5 phosphate industry has been a fairly well-
6 studied industry over time. Bodies such as the
7 Florida Institute of Phosphate Research have
8 done some extensive work in this area. The US
9 EPA early on was involved in characterizing the
10 radiation hazards associated with work in this
11 industry as well, and we had access to those
12 reports and we did use them in our evaluations.
13 We also relied on some Technical Information
14 Bulletins that we had, most notably Technical
15 Information Bulletin Number 43 that has to do
16 with how we reconstruct doses from radium and
17 progeny from phosphate operations. That TIB
18 relied heavily on the US EPA data. And TIB 24
19 was used here, which has to do with neutron
20 dose reconstructions, and TIB 6 which has to do
21 with reconstructions of X-rays from medical --
22 medical expos-- medical chest X-rays.
23 In addition to that -- we had no site profile,
24 I should say at the outset, for Texas City
25 Chemicals. However, much of the process was

1 similar to that that was taken -- carried out
2 at Blockson Chemical. So to the extent
3 applicable, we used -- relied on the Blockson
4 Chemical site profile to perform some of the
5 analyses for Texas City. I would point out we
6 are aware that there are differences in these
7 processes in terms of the volume -- Blockson
8 did much more volume of processing than Texas
9 City. In addition there was a difference in
10 the way the phosphate -- the uranium was
11 actually recovered. The Texas City process was
12 involved in a solvent extraction using organic
13 solvent, as opposed to the precipitation
14 process for -- chemical precipitation process
15 that was used at Blockson Chemical.

16 Okay, a little bit more about the AEC
17 operations that occurred at Texas City
18 Chemicals. As I mentioned, they were
19 contracted with the AEC in February of '52 to
20 construct a fertilizer plant. Plant
21 construction started and was completed during
22 1952. In our -- in the evaluation report, we
23 believe that there was no indication of any
24 radiological exposure that occurred during the
25 construction phase. That is for the entire

1 year of 1952. In fact, the evaluation report
2 speaks of three different periods. That is the
3 construction phase, which is 1952; the start --
4 the pre-operational phase, which began in early
5 -- began the beginning of 1953 and continued
6 through October; and then the operations phase,
7 which was after October of 1953.

8 As it says here, the construction was completed
9 and the start-up operations occurred in October
10 of '53, which is they started to make uranium
11 product at that point. They produced a total
12 of about 300 to 400 pounds of uranium during
13 these shake-down operations, and in fact that
14 is the sum total of uranium that we could
15 identify ever having been produced at this
16 facility. In fact, there's some reason to
17 believe, as I'll talk later -- as I'll discuss
18 later, that all of this product was produced
19 between October of 1953 and December of 1953 --
20 essentially, over a three-month period.

21 Blockson Chemical (sic) filed for bankruptcy in
22 July of 1956.

23 **DR. ZIEMER:** Texas City filed --

24 **DR. NETON:** I'm sorry, Texas City --

25 **DR. ZIEMER:** -- not Blockson.

1 **DR. NETON:** -- I'm slipping again, sorry.

2 Thank you.

3 The evaluation report was issued on January
4 29th, 2008, and we believe, I will -- as I will
5 discuss, can provide a bounding estimate of
6 internal and external exposures for this
7 particular operation. It assumes that the
8 worker exposures from uranium recovery are at
9 the operational levels from plant start-up to
10 the end of the AEC period. That is, the plant
11 started making uranium in October of 1953. Our
12 evaluation report assumes that it was at a
13 constant level of uranium production from that
14 date through the end of 1956. So it certainly,
15 in our opinion, is bounding, given that we do
16 believe and have information now that there was
17 really only a three-month production period for
18 uranium.

19 This is a cartoon I think you've seen before
20 for the Blockson facility, but it shows the
21 different -- the way in which the uranium was
22 manufactured from this process. You see the
23 phosphate rock here on the left-hand side that
24 came into the facility. That -- that part of
25 the process would involve exposure to natural-

1 occurring radioactive material. That is, the
2 mined phosphate rock contained uranium in it.
3 I think it's .014 percent is a best-estimate of
4 the content of the uranium, so fairly low
5 levels of uranium. The uranium, though, is in
6 equilibrium, or considered to be in
7 equilibrium, with all of its progeny. There's
8 also thorium-232 present that is there at a
9 level of about 1-30th that of the uranium, and
10 that is also in equilibrium. So in the plant
11 where the uranium wasn't being recovered, that
12 would be the exposure source term. As you move
13 over to the bottom right of this slide, the
14 uranium extraction, they developed the uranium
15 recovery facility. And in that facility one
16 would be exposed to the uranium product itself,
17 and we've made some assumptions -- very much
18 like we did at Blockson Chemical -- as to what
19 progeny followed through the uranium in the
20 process. In fact, we assume the thorium and
21 many of the progeny follow the uranium through
22 and the worker would be exposed in the
23 extraction process to both uranium and the
24 progeny. As you see in the top arrow going off
25 to the upper right, when you dissolve these

1 phosphate rock in sulfuric acid, you create
2 this phosphogypsum which the radium-226
3 primarily is considered to follow.

4 Okay, let's talk a little bit about how we can
5 reconstruct the external dose at this facility.
6 As I mentioned, we would have external dose
7 from exposure to unprocessed phosphate ore.
8 That's a natural-occurring radioactive
9 material. We assume that that started in 1953
10 when they started -- in the beginning of '53
11 when they started to bring in the product.
12 That was reconstructed using this TIB 43, which
13 is "Characterization of Occupational Exposure
14 to Radium and Radon During Recovery of Uranium
15 from Phosphate Materials." That relies heavily
16 on an EPA survey that was done of the phosphate
17 industry, and I believe the external doses
18 during this operation are somewhere in the
19 vicinity of 70 millirem per year -- not a real
20 high dose rate operation.

21 The external dose from recovery of the uranium
22 is somewhat different in the sense that now you
23 have uranium that has been concentrated into a
24 drum, and it has its own constituent photons
25 and bremsstrahlung associated with it. And

1 that was modeled exactly analogous to that at
2 Bethlehem Steel. We did a Monte Carlo
3 calculation using the MCMP code to estimate the
4 dose rate coming off of a drum of uranium, and
5 there are some assumptions in there about the
6 workers' stay time and that sort of thing.
7 The internal dose reconstruction is a little
8 bit more complicated. It's broken also into
9 several periods. One was the internal dose
10 prior to start-up, and that is the phosphate
11 ore process, before they concentrate any
12 materials. The intakes prior to start-up were
13 assumed to have occurred from the rock in all -
14 - through all of 1953. And the intakes were
15 bounded using measurements of dust loading in a
16 -- in another phosphate plant. I believe that
17 was a facility the EPA had followed in Idaho,
18 and that was -- I think it was about 5.3
19 milligrams per cubic meter dust loading. We
20 used the highest reported dust concentration in
21 the facility, excluding the calcining operation
22 at that Idaho facility because through our
23 interviews with workers at Texas City we
24 determined that calcining -- the ore was not
25 calcined at Texas City. We assumed a certain

1 content of uranium in the phosphate rock. I
2 mentioned I think that was .014 percent uranium
3 by weight. And the thorium and progeny were
4 added as a function of uranium intake. That
5 is, they were all scaled to the amount of
6 uranium that was there.

7 Okay. Post-start-up, the dose becomes a little
8 higher. Intakes of uranium concentrates were
9 assumed, as I mentioned before, to have
10 occurred from October '53 through the end of
11 production. They're based on reports of the
12 alpha activity measured at AEC plants in the
13 1950s. Health and Safety Laboratory, HASL,
14 actually did surveys of about -- I think 60
15 different facilities, collecting 20,000
16 different air samples to evaluate the
17 characteristics of uranium plants during the
18 '50s. And we chose to use the highest daily
19 average dust concentration in those plants,
20 which happened to involve the dumping and
21 handling of the uranium concentrate. That's
22 very similar to -- at Blockson in the sense
23 that we recognize that the highest
24 concentration would be when you're drumming
25 uranium, you're dumping it out of pans into a -

1 - into a drum. We did not use the uranium
2 values for Blockson, though, because that was
3 specific for Blockson, the uranium urinalysis
4 for the Blockson process, for the ventilation
5 and that sort of thing, so we ended up using
6 this default value -- or this high value from
7 the HASL studies to put an upper bound on the
8 inhalation of uranium. And it is higher than
9 the Blockson values. As I mentioned, I think
10 it's 190 dpm per cubic meter of uranium. And
11 again, thorium and progeny were added as a
12 function of the -- for uranium intake. They
13 were all scaled to an assumed concentration
14 levels.

15 A little bit about radon. Radon of course is
16 one of the progeny that is a -- is a noble gas.
17 It has no sink so it would certainly be present
18 in the plant environment. The radon exposures
19 were also based on estimates from similar
20 phosphate plants, and this is what we used in
21 the Blockson Chemical evaluation. We used the
22 95th percentile of the values that the EPA had
23 characterized in these phosphate plants. It
24 comes out to somewhere I think in the vicinity
25 of a little over .1 working level months per

1 year. If you equate that to uranium
2 concentration, it's somewhere in the one to two
3 picocurie per liter range, not a tremendously
4 high concentration, but we did pick the 95th
5 percentile for this reconstruction.
6 Okay. We did receive some additional
7 information after this -- literally within a
8 day or two after this evaluation report was
9 issued, I think, and those documents are out
10 there now on the O drive that details -- the
11 Department of Energy sent these, provided these
12 to us, and they detail production problems at
13 Texas City Chemicals. Also talk about the res-
14 - a little bit more about the research
15 activities that were done there, and there's
16 more complete uranium production data. As I
17 mentioned before, the complete uranium
18 production data actually does pretty
19 convincingly demonstrate that the uranium
20 production really only occurred from October,
21 1953 through December, 1953, over a three-month
22 period. So what we have here is a -- is a --
23 what we believe is a fairly large bounding
24 overestimate for the production operation.
25 A little bit more about what was in those EPA -

1 - or those DOE-provided documents. They did
2 document, as we did know, that the Texas City
3 produced two main products. It was animal feed
4 and fertilizer. The fertilizer plant was done
5 under the AEC contract. The animal feed
6 operation was running concurrently. And it
7 turns out that the reason the production
8 quantities were so low at Texas City was that
9 the fertilizer production plant had a difficult
10 time getting going. In fact, it almost didn't
11 run at all, and that's why the uranium
12 productions were so low. There was not enough
13 fertilizer byproduct material coming through
14 the process to be able to extract the uranium.
15 As it says here, the fertilizer production
16 equipment failed. This sort of -- this is
17 well-documented in these letters that we've
18 received from the DOE. So during the AEC
19 period, the production consisted primarily of
20 the animal feed only.

21 A little bit more about the research activities
22 that was conducted. As I mentioned before,
23 they were a contract -- Texas City was
24 contracted to perform research into new methods
25 or cheap methods to recovery of phosphorus

1 oxide, alumina and uranium from Florida leached
2 zone ores. I mean this was -- this was try to
3 optimize a process and collect some uranium
4 from byproduct materials that heretofore had
5 not been used. It was a fairly low level of
6 involvement, though. They document that they
7 received an ore sample from Tennessee Valley --
8 TVA, Tennessee Valley Authority, and I want to
9 say it was -- it was a fairly small quantity, I
10 forget how many pounds now, but it was on the
11 order of tens of pounds, and they did receive
12 one drum of phosphate ore. And that contract
13 expired on September 30th, 1955.

14 A little bit about the status of claims within
15 our system. There are 12 claims that meet the
16 class definition that we have in our database,
17 and three of those have completed dose
18 reconstructions at this point. And none of
19 these claims were -- these claims were
20 evaluated and no monitoring information was
21 identified in any of these claims.

22 Okay, you've seen this slide before, but the
23 evaluation process involves a two-part process.
24 One is we have to decide if it's feasible to
25 estimate radiation with sufficient accuracy.

1 And if not, then is there a reasonable
2 likelihood that health was endangered. The
3 bottom line of our analysis was that we have
4 sufficient process and source term information
5 to bound these doses with sufficient accuracy -
6 - I would say plausibly bound these doses with
7 sufficient accuracy for workers during the time
8 period petitioned.

9 And this is a summary slide of what we believe
10 we can reconstruct. You see in the dose
11 reconstruction feasible, we believe that we can
12 reconstruct the internal dose from uranium and
13 its progeny, from radon, from thorium and
14 progeny, and all the external exposures
15 including the beta/gamma and occupational
16 medical X-rays. So our recommendation here is
17 that we -- we can do this dose reconstruction,
18 and the class should be not added to the SEC.

19 **DR. ZIEMER:** Thank you, Dr. Neton. Board
20 members, do you have any questions at this
21 point for Dr. Neton? Gen Roessler.

22 **DR. ROESSLER:** I think you answered the
23 question, I just want to make sure. You
24 indicated you found no monitoring records, and
25 I think the workers also recall that there was

1 no monitoring?

2 **DR. NETON:** Yes.

3 **DR. ROESSLER:** There was no monitoring
4 according to --

5 **DR. NETON:** I don't recall any worker telling
6 us that they had monitoring data, right. Part
7 of the issue -- it may be, though, that this is
8 -- the production was so small over a limited
9 period of time, that may explain why there was
10 limited monitoring data. Again, we pretty much
11 have demonstrated, I think, that -- or
12 determined that it was, over a three-month
13 period, about 300 pounds. Which is less than a
14 half a drum of uranium, a half a barrel of
15 uranium.

16 **DR. ZIEMER:** Okay, other questions from Board
17 members?

18 **MR. CLAWSON:** I've -- I've got one.

19 **DR. ZIEMER:** Yes, Brad Clawson.

20 **MR. CLAWSON:** I'm -- I'm just sitting here --
21 we have no site profile, we're using Idaho
22 chemical processing for the dust loading, the
23 highest dust loading we can find -- I'm sorry,
24 but I really have a hard time understanding how
25 you can really do it. I know that these

1 processes are similar, but these facilities and
2 so forth are not the same, and I just -- you
3 know, when you come down to the feasibility and
4 accuracy, it's -- it's hard for me to get my
5 hands around how we can really say that --
6 within a sufficient accuracy that we can do
7 that.

8 **DR. NETON:** Right. I think that gets to what
9 the definition of sufficient accuracy is, and
10 that is can NIOSH put a plausible upper bound
11 on the exposures of these workers. And we
12 believe, using these very similar processes and
13 taking the -- well, we've done the 95th
14 percentile of the highest exposures in similar
15 operations and applied them. That is a
16 plausible upper bound to the exposure of the
17 worker.

18 **DR. ZIEMER:** Any other questions?

19 (No responses)

20 Okay, let's hear from the petitioners. Dan
21 McKeel -- Dr. McKeel, did you say you were
22 going first?

23 **DR. MCKEEL:** Yes, if that's all right.

24 **DR. ZIEMER:** Yeah, now back away a little bit.
25 We're getting the echo again.

1 **DR. MCKEEL:** All right.

2 **DR. ZIEMER:** That's good.

3 **DR. MCKEEL:** I backed away. Is that a little
4 bit better?

5 **DR. ZIEMER:** That's a little better. Go ahead.

6 **DR. MCKEEL:** All right. I appreciate the
7 chance to represent the petitioner's side of
8 the Texas City SEC 00088. What I'm going to
9 cover this morning concerns a long-term goal
10 which is the hope that the Board will decide to
11 avert NIOSH's recommendation to approve this
12 SEC. And the short-term goal, Kathy Gillery
13 (ph) of Congressman Langston's office in a
14 (unintelligible) says, "Petition the Board
15 prior to this meeting to please postpone their
16 vote until the June meeting so we can gather
17 together the necessary technical documents that
18 we feel we need. Also I would ask that the
19 Board task SC&A to review the NIOSH SEC
20 evaluation report that the petitioners believe
21 is scientifically (unintelligible) and seems to
22 preclude (unintelligible) accurately bounded
23 and reconstructed, using claimant-favorable
24 assumptions. We believe we need expert help on
25 that." So my remarks this morning will answer

1 prior (unintelligible).

2 The first one, the long term claim that
3 NIOSH (unintelligible) reconstruct doses
4 accurately and effectively (unintelligible).

5 We would like to dispute those claims

6 (unintelligible) as follows:

7 (Unintelligible) is two of 14 cases that NIOSH
8 (unintelligible) has completed dose

9 reconstruction. This is direct evidence that

10 NIOSH staff (unintelligible) claims impossible

11 under the SEC. I heard Jim Neton just say that

12 NIOSH believes they (unintelligible) include

13 dose reconstructions (unintelligible) the DOL

14 statistics from (unintelligible). I spoke with

15 (unintelligible) at NIOSH again citing DOL

16 statistics are not (unintelligible).

17 (Unintelligible) is taking so long to post

18 results (unintelligible) all of the dose

19 reconstructions met denial. Point B under

20 (unintelligible) long-term goal is that the

21 NIOSH evaluation report and that NIOSH

22 (unintelligible) March 13th. Mr. Tomes

23 suggested that NIOSH, quote, use very little of

24 uranium production processes at TCC. I believe

25 that only two workers (unintelligible) inside

1 the recovering building during the production
2 years, 1952 to '56, are alive today and neither
3 of them are able to (unintelligible) for the
4 November 15th meeting. Point C, there's no
5 adequate coworker (unintelligible) monitoring
6 data (unintelligible) totally missing SEC count
7 for monitoring data for air, for ambient
8 radioactivity, radioactivity in the soil or
9 internal or external worker dosimetry,
10 including film badge dosimetry and bioassay
11 data. (Unintelligible) the Blockson chemical
12 uranium intake data (unintelligible) inhalation
13 ingestion rate is not feasible to use in TCC
14 intake data without Blockson (unintelligible).
15 And Dr. Neton just echoed that the Blockson
16 data, bioassay data in urine was not used in
17 these calculations.

18 Data used for intake, according to Mr.
19 Tomes, was from quote (unintelligible) the
20 handled uranium. And we assumed
21 (unintelligible) the same level, end quote.
22 This was in a pre-Board conference and I think
23 that's a very loose definition of what was
24 actually used.

25 The (unintelligible) model used a highly

1 problematical model. The intake parameters at
2 TCC were not inclined at all except the
3 atmosphere was (unintelligible). This is from
4 worker testimony. (Unintelligible).

5 (Unintelligible) production years residual
6 period (unintelligible) for other surfaces.
7 (Unintelligible) TCC.

8 (Unintelligible) we're asking the Board
9 to give us time until the June meeting to
10 (unintelligible) necessary technical documents.
11 And I've listed (unintelligible) I just heard
12 Dr. Neton a few minutes ago. The technical
13 documents we're seeking include the following:
14 We have two FOIA requests that are pending.
15 One is to FOIA (unintelligible) 0420. That was
16 submitted 12-14-07 for three AWE documents --
17 research database and that (unintelligible)
18 concerning TCC -- concerning (unintelligible)
19 on March the 14th this year reported the
20 following documents were withheld from among
21 those three. One was certain portions of
22 confidential commercial/financial information
23 (unintelligible) pre-decisional document not
24 further identified and (unintelligible) other
25 information was deleted. Priority number one

1 is the exact document (unintelligible)
2 financial information were not identified.
3 However, we believe the omission was from two
4 of the four letter contracts between TCC and
5 the AEC and specifically (unintelligible) they
6 were missing from AEC (unintelligible) 49-
7 1(^16), document E15005(unintelligible)9-1
8 (unintelligible) document E14994. But only
9 five of 21 pages were transmitted to us.

10 In the FOIA (unintelligible) they were
11 letter contracts, 18-49-6-9 and AC-05-1
12 (unintelligible) which were not supplied to us
13 at all. (Unintelligible) the 41 letter
14 contracts as quote, nature and time unknown.
15 And I think that the work that the lack of
16 (unintelligible) even by DOE of the AEC
17 operations at TCC. This was a critical
18 (unintelligible) of importance (unintelligible)
19 radiation exposure to TCC. It was the major
20 reason for FOIA (unintelligible) request of the
21 Board (unintelligible) TCC (unintelligible)
22 meeting in St. Louis.

23 It is difficult for me to imagine that
24 any time (unintelligible) or financial
25 information for the 1950s at TCC

1 (unintelligible) activities of the
2 (unintelligible) in 2008. I remember
3 (unintelligible) they refer to the fact that
4 the (unintelligible) sign-in sheets from the
5 October 18, 2007 and November 15, 2007 TCC
6 (unintelligible) town hall meetings were
7 provided. The (unintelligible) they did in
8 fact contain 115 full names of attendees with
9 certain organizations identified, with
10 (unintelligible) organizations deleted, in
11 addition to (completely inaudible portion).

12 ...from any of the (unintelligible) that
13 we are involved here. (Unintelligible) do
14 represent those considerable number of people
15 in the area (unintelligible) for this
16 particular SEC. When you fund four of the
17 084204 (unintelligible) illuminating statement
18 (unintelligible) deciding the openings of the
19 joint TCC/AEC facility: quote, TCC was
20 incorporated in the state of Texas, October
21 17th, 1950. It was organized primarily for the
22 purpose of producing an animal feeding
23 supplement and (unintelligible) fertilizer with
24 (unintelligible) uranium. Now the second FOIA
25 we are appealing is 08-0057; that was submitted

1 on February 8th of this year and was cited to
2 on 3/14/08 and that was (unintelligible)
3 references in the NIOSH evaluation of SEC-88.
4 We were very surprised by the major
5 discrepancies between 57 references, cited in
6 NIOSH's evaluation report and the fact that we
7 were told by OCAS that they only possess two
8 Texas City Chemical documents in addition to
9 the two worker meeting interviews that were
10 being redacted at the time. We were given only
11 the (unintelligible) of those three documents,
12 which were uninformative as far as the nature
13 of the documents and were told we had to get
14 them through the (unintelligible) process,
15 which we did. (Unintelligible) experience
16 justified the problems being discounted
17 (unintelligible) relevant documents related to
18 this Texas City SEC.

19 The requested documents also include a
20 question-and-answer session from October the
21 2nd, 2007. Among the TCC workers is Chris
22 (unintelligible), an ORAU employed co-author of
23 the NIOSH SEC-88 evaluation report team.
24 Unlike what Dr. Neton just said, the important
25 factors would be over not workers in the

1 recovery building, but (unintelligible) film
2 badges. However, no press conference interview
3 data has provide to this time. It is not clear
4 what sources, such as ideally HASL or Landauer
5 records were searched to capture some of this
6 TCC film badge dosimetry data, and I want to
7 acknowledge that that region, being several
8 sources that were served, I don't believe you
9 mentioned that Landauer was (unintelligible).
10 From the documents we are looking for and
11 attempting to receive the uranium recovery
12 building and (unintelligible) permit. This
13 will define in absolute terms the end of the
14 uranium residual contamination period. DOE and
15 NIOSH are not able thus far to clearly
16 establish (unintelligible) through their
17 records for using TCC worker testimony at the
18 October 12, 2007, NIOSH outreach session or at
19 the November 15th, 2007 NIOSH town hall
20 meeting. The testimony at both meetings showed
21 the recovery building was still standing in
22 1976 or 1977. Galveston County Commissioner
23 (unintelligible) is perhaps on the line, is
24 assisting us with (unintelligible) for the
25 record. Area photos of the site will be

1 submitted. The time the recovery building was
2 still standing was late as 1975.

3 DOE document number 16646, on page 6,
4 that we received under FOIA 0800420, states the
5 following, and I quote: No information was
6 available as to the exact amount of U-308 for
7 the -- nor to the radiological conditions of
8 the facility at its termination of the project
9 by the contractor or the successor company, end
10 quote. This is in spite of the fact that Oak
11 Ridge Operation and Oak Ridge National Lab did
12 a radioisotope survey in 1977 and found high
13 radium-226 levels in some soil at the site.
14 The site is (unintelligible) by DOE for further
15 consideration as the FUSRAP remediation site
16 nevertheless. And later on page 6 you'll find
17 for the recovery building this excerpt, and I
18 quote: The recovery building 10 was
19 approximately 19 by 36 yards, and I refer to
20 figure two, with the building used for uranium
21 extraction was demolished -- and this is
22 important in parentheses -- year unknown, end
23 quote, and established. The location of
24 building (unintelligible) was unknown. No
25 information was available as to entry or use of

1 the (unintelligible), except the storage and
2 (unintelligible) resulting from phosphate
3 (unintelligible) processing, which occurred at
4 demolition of the building. So what that says
5 is that so far now when they made their
6 radiological survey, was not really aware where
7 the (unintelligible) piles were or where the
8 uranium waste may have been on site, so their
9 survey of the site may not represent the
10 highest radioactivity level.

11 I am (unintelligible) that we are
12 seeking uranium waste disposal permit. Workers
13 testified in last October and November that TCC
14 waste including the (unintelligible) was
15 disposed of offsite eventually.

16 (Unintelligible) super fund site in Harris
17 County, Texas. Descriptions of the waste
18 deposited at TCC (unintelligible). Radioactive
19 waste is not attributed to TCC Chemical in
20 document (unintelligible). Not knowing exactly
21 how TCC rad wastes were handled, inserts
22 another element of uncertainty in the DR
23 equation that we believe needs to be explored
24 in greater detail.

25 Another very important set of documents

1 that we are seeking includes the lawsuit
2 between Gordon versus Amoco, and Gordon and
3 Amoco were successive owners of the Texas City
4 project. We believe these court records that
5 may extend over a long period from 1978 to 1990
6 may contain quantitative data on uranium
7 concentrations in the TCC waste stream
8 (unintelligible) because the two copies argue
9 who should pay for cleanup, and as far as we
10 know this never has taken place but we think
11 the contamination that was onsite. Congressman
12 Lance's (ph) office has contacted the attorneys
13 in this case; trying to assist us get these
14 vital documents.

15 We are also looking for more documents
16 from the (unintelligible) super fund site from
17 the radiation period to see if by any chance
18 TCC radioactive wastes were active out there.
19 NEIC Board (unintelligible) on March 13th. Tom
20 Tomes issued a new nationally (unintelligible)
21 document that OCAS obtained. This was a 1965-
22 year government memo dated 3/17/1955, and
23 apparently involves an impending visit to Texas
24 City Chemical on June 12th and 13th of 1955. We
25 would like to have time to get that document

1 and to review it.

2 And as of a few minutes ago, we learned
3 from Dr. Neton that DOE has provided OCAS
4 documents that have been placed on the O drive
5 that have to do with some new aspects of
6 operations and research done at TCC. We have
7 not only not known about these documents, but
8 we don't have them and I think in all fairness
9 we should be given the time to get them and
10 review them.

11 Now one of our short-term goals that we
12 are asking the Board to do is to task SC&A to
13 review the NIOSH SEC evaluation report.
14 (Unintelligible) report of the February 20,
15 2008, (unintelligible) control, please consider
16 tasking SC&A with the (unintelligible) review
17 of (unintelligible) NIOSH evaluation report of
18 SEC 00088. The petitioners believe the
19 assumptions underlying the external and
20 internal doses may not be appropriate for Texas
21 City Chemical. The reasoning is very complex,
22 and experts used by SC&A is needed to
23 adequately assess the findings underlying
24 NIOSH's claim they can now reconstruct TCC
25 doses accurately. The petitioners ask again

1 why only two or possibly three dose
2 reconstructions have been performed and
3 completed, representing 14.2 percent of the
4 Texas City cases that NIOSH (unintelligible)
5 dose reconstruction.

6 (Unintelligible) data, even by DOE
7 following a radioactive survey by ORNL and Oak
8 Ridge Operations in 1977. The effects
9 (unintelligible) possible (unintelligible) site
10 occurred long after uranium extraction ceased,
11 and the site was then acquired by American Oil,
12 B.F. Douglas, Gordon and Amoco. All TCC
13 Chemical records except two of the four AEC
14 letter contracts have apparently vanished
15 (unintelligible).

16 The Board's (unintelligible) in February
17 20th, was premature and to report the NIOSH
18 evaluation report (unintelligible) posted since
19 January 8 (unintelligible) months early.
20 Congressman Nick Branson and Dr. McKeel,
21 writing for the co-petitioners, sent a formal
22 request to the Advisory Board to task SC&A to
23 do a targeted review of the NIOSH evaluation
24 report and to postpone voting on Texas City
25 Chemical SEC I88 Petition until SC&A reviews

1 could be completed. Postponing the votes until
2 the June meeting would also allow the co-
3 petitioners to obtain and review the documents
4 we are seeking at this time.

5 In Item 2A, including the following FOIA
6 EO: From the specific portions of the NIOSH
7 evaluation, we believe needs to be examined by
8 SC&A include: the model used for intake, due
9 to the lack of photons and data, and
10 (unintelligible) comparable data or coworker
11 data for the intake. (Unintelligible) this
12 model (unintelligible) to accommodate
13 (unintelligible) for the uranium concentrations
14 (unintelligible) period for example
15 (unintelligible) NIOSH (unintelligible) uranium
16 external doses at TCC at this point acceptable
17 given total access (unintelligible) dosimetry
18 data for the site.

19 For the petitioner (unintelligible) of
20 the Board is the SEC (unintelligible) sample
21 (unintelligible) records have been lost
22 (unintelligible). There is no coworker data or
23 (unintelligible) data. (Unintelligible) in
24 performing accurate DRs and assigning possible
25 data doses are therefore much higher than even

1 in most other unmonitored (unintelligible).
2 We're asking the Board to please allow us more
3 time until the June meeting to locate
4 additional records we believe (unintelligible)
5 of uncertainty. Records retrieval has been
6 very slow, especially in getting the two NIOSH
7 documents (unintelligible). Still the
8 documents (unintelligible) intervention by
9 Congressman Lance. With all that we still need
10 to try to appeal to get all of the
11 (unintelligible). And now today we learn that
12 there are other documents that we've not seen
13 at all.

14 I want to thank the Board for its
15 attention today and for consideration of SEC
16 Petition 88, Texas City Chemical, which is
17 located outside of Houston, Texas.
18 (Unintelligible). Thank you very much.

19 **DR. ZIEMER:** Thank you very much, Dr. McKeel.
20 We'll also now have an opportunity to hear from
21 any of the other petitioners. Christine Ray,
22 are you on the line? Do you wish to speak?

23 **MS. RAY:** I'm here.

24 **DR. ZIEMER:** Do you have any comments, Ms. Ray?

25 **MS. RAY:** The only comment I have is I

1 (unintelligible) what because you don't have
2 (unintelligible) information (unintelligible)
3 to get the information to y'all. I would
4 appreciate (unintelligible). Also I
5 (unintelligible) the SEC and (unintelligible).

6 **DR. ZIEMER:** Okay, thank you. Are there other
7 individuals listening today that have
8 additional comments?

9 **MR. LOCKHART*:** Yes, my name is Joe Lockhart.
10 I went to work at Texas City Chemical, January
11 1957. Phosphorus rock was shipped in there to
12 the plant from Florida at that time when I was
13 employed. They continued being shipped in
14 there and went through (unintelligible) which
15 ground into powder then made into phosphoric
16 acid. Phosphoric acid was made until the plant
17 shut down in 1977. I was in maintenance. I
18 went there as a maintenance apprentice 1957 and
19 I worked in the recovery building. I worked in
20 the recovery building, which had security at
21 the door. I (unintelligible) maintenance
22 operations in there working off
23 (unintelligible) and whatever. And whatever
24 was being made in there was being made at the
25 time I went to work there. After it shut down,

1 the recovery building stayed there without
2 anything being made in there and
3 (unintelligible) was in there. Later on in the
4 years (unintelligible) went in there and
5 removed all the (unintelligible), gear boxes
6 and whatever could be salvaged and used in the
7 rest of the plant. The recovery building
8 stayed there until I left in November of 1977.
9 The building was still there. It was used for
10 storage -- to store (unintelligible) and
11 whatever we had to store in out of the weather
12 in this building. I don't know what -- who
13 tore the building down. I was the last paid
14 (unintelligible) employee to leave the plant.
15 After that, I don't know anything about it.
16 But all this stuff was being made when I went
17 to work there in 1957.
18 And maybe someone else has anything to say. Do
19 you have any questions? I can answer. I was
20 maintenance superintendent when the plant shut
21 down. Employees went in and out of that
22 building continuously all the years that I was
23 there.

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

25 **MR. LOCKHART*:** That's all I have to say now.

1 **DR. ZIEMER:** Thank you very much. Were there
2 others there that have additional comments?

3 **MR. WILSON:** Yes, I'm Roy Wilson from the Texas
4 City group. We made some discovery that a
5 company called SuTech* went in there in 1977 to
6 1978 on a clean-up operation at the Texas City
7 factory, and they were -- they were -- they
8 brought a (unintelligible) counter out there
9 and -- and after they brought it to the site
10 and the (unintelligible) cleaning of this --
11 this (unintelligible) facility, they had to
12 wear special radioactive clothing to continue
13 their work, and they did do some -- some
14 monitoring out there. The company's name was
15 (unintelligible), and -- and located here in
16 Texas City area. We had testimony from one of
17 these employees that worked on that cleanup
18 operation and (unintelligible) details that two
19 -- two workers had worked in his group for
20 about five years or later came up with leukemia
21 after the cleanup operations was complete
22 there.

23 **DR. ZIEMER:** Okay. Thank you very much. Any
24 further comments from petitioners?

25 **MR. LOCKHART*:** I forgot to add also -- my name

1 is Joe Lockhart, back again. While I worked
2 there I had cancer while I worked there. My
3 wife had lung cancer also and lost a lung. My
4 son had liver cancer. Three people out of one
5 family got cancer while I worked there. I have
6 nothing else to say about it.

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

8 **MR. WILLIAMS:** My name is -- my name is Henry
9 Williams.

10 **DR. ZIEMER:** Yes, Henry.

11 **MR. WILLIAMS:** I started to work
12 (unintelligible) in '56 and (unintelligible)
13 went there we was (unintelligible) labor,
14 that's what (unintelligible) was. And we was
15 in places that we shouldn't have been 'cause we
16 had no one to stop us. We didn't know. We
17 didn't know what was going on 'cause if we had
18 known, we'd lose our job, so we -- number --
19 numerous (unintelligible) and (unintelligible)
20 talking. Okay? But I just want to let you
21 know we had to take what was given to us in the
22 line of work. There was work there, and the
23 work we was doing, we had to go in each room
24 and clean up, and we didn't have no type of
25 gear to put on, and that's why I'm like I am

1 today. There's numerous others and
2 (unintelligible) is here and they have watched
3 their (unintelligible) and it (unintelligible)
4 all over and there's nothing that could be did
5 because this has been going on a long time, and
6 I think (unintelligible) it's time to bring
7 this to a close and try to get this
8 straightened out because -- that's -- that's
9 all I'm going to say.

10 **DR. ZIEMER:** Thank you, Henry. Any --

11 **DR. MCKEEL:** Dr. Ziemer?

12 **DR. ZIEMER:** Yes.

13 **DR. MCKEEL:** I have one comment, and that is
14 that --

15 **DR. ZIEMER:** This is Dr. McKeel, I believe.

16 **DR. MCKEEL:** This is Dr. McKeel, I'm sorry.

17 **DR. ZIEMER:** That's all right.

18 **DR. MCKEEL:** I'm sorry. But the -- Roy Wilson
19 mentioned the (unintelligible) report in --

20 **DR. ZIEMER:** Yes.

21 **DR. MCKEEL:** -- 1977/'78. That's another
22 document that I omitted mentioning, but we
23 definitely need that cleanup report and I would
24 think that NIOSH and the Board would also want
25 to see that cleanup report because it may have

1 information about radioactivity, possibly
2 (unintelligible), and in particular it may
3 document what happened to the recovery
4 building, exactly when, and therefore define a
5 better end point for the residual contamination
6 period. So I'd just like to put that into the
7 equation for documents that we need to preview
8 and look at (unintelligible) the Board
9 (unintelligible).

10 **DR. ZIEMER:** Thank you very much. Board
11 members, any questions or comments, either to
12 the petitioners or to Dr. Neton?
13 Were there any other folks with the petitioners
14 that had comments?

15 **MR. WILSON:** Yes, this is Roy Wilson again.

16 **DR. ZIEMER:** Roy.

17 **MR. WILSON:** Texas City group. I would like to
18 further add, as Dr. McKeel has stated, we were
19 being compared with the Idaho group and
20 Blockson, and Blockson.

21 **DR. ZIEMER:** Yes.

22 **MR. WILSON:** Those -- those comparisons were
23 made and we understand the -- the Blockson
24 group and the Idaho group, they are -- they are
25 able to use those sites as we speak. Is that

1 not correct? Is this correct? The Blockson
2 facility is still being used today?

3 **MS. MUNN:** No.

4 **DR. ZIEMER:** I'm looking here to see -- I --
5 apparently not.

6 **MR. WILSON:** Oh, okay.

7 **DR. ZIEMER:** At least not for that purpose.

8 **MR. WILSON:** We want to make -- we wanted to
9 make it known that the Texas City site has --
10 has been declared unusable since the closing of
11 the (unintelligible) plant. That is a highly
12 contaminated place there. And Dr. McKeel
13 (unintelligible) some (unintelligible) on that
14 due to a case filed by Amoco versus
15 (unintelligible) Chemicals in reference to the
16 purchase of the property. And we want to -- we
17 couldn't understand how we were being compared
18 when our property is totally unusable here in
19 Texas City, hasn't been used since that
20 operation was in effect.

21 **DR. ZIEMER:** Okay.

22 **MR. WILSON:** We would like that to be
23 considered as far as our Texas City plant.
24 Those guys worked in a highly radioactive
25 situation out there. Thank you, sir.

1 **DR. ZIEMER:** Thank you for that --

2 **MR. WILSON:** (Unintelligible) one other
3 gentleman here from Texas City would like to
4 say -- make a comment. He's (unintelligible).

5 **DR. ZIEMER:** Okay, proceed.

6 **MR. INGRAM:** My name is James (unintelligible)
7 -- James Ingram.

8 **DR. ZIEMER:** Give us your name again, please.
9 Give us your name again.

10 **MR. INGRAM:** James Ingram, I-n-g-r-a-m.

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

12 **MR. INGRAM:** (Unintelligible) in 1957. I
13 worked as an operator (unintelligible) plant.
14 All the time that (unintelligible) plant
15 changed ownership, I was there from '57 on.
16 And (unintelligible) front end loader
17 (unintelligible). It was (unintelligible) a
18 pond outside the boundaries of the main plant.
19 I was (unintelligible) down there
20 (unintelligible) 18-wheelers (unintelligible)
21 gypsum (unintelligible). Then all of a sudden
22 one day the plant manager and assistant plant
23 manager came running into the plant and said
24 stop, don't load no more of that stuff. And
25 when I found out what the problem was, it was

1 radioactive, and that radioactive material was
2 being shipped all over the United States for
3 pasture lands, farmlands and what have you. So
4 there's no telling who all was contaminated
5 with this stuff, but just because of what we
6 shipped out of there and didn't know what we
7 was shipping.

8 (Unintelligible) phosphate. It was
9 (unintelligible) uranium dust and they said
10 (unintelligible) here today was we only made
11 (unintelligible). I don't know what
12 (unintelligible) amount, but I have
13 (unintelligible) thing with a front end loader
14 and it was (unintelligible) and I had to
15 (unintelligible) load (unintelligible) front
16 end loader (unintelligible) move it back
17 (unintelligible) loaded out of there. I think
18 that's all I can say right now.

19 Oh, by the way, since I've left there I have
20 developed cancer. And the doctor said this
21 cancer was caused by (unintelligible) out in
22 the sunshine. I said how do you know that? He
23 said well, 50 percent says we do, 50 percent
24 says we don't. I said why (unintelligible)
25 caught cancer, nobody in my family has ever had

1 cancer, and all of a sudden (unintelligible)
2 working there I developed cancer. So that's
3 all I have to say right now.

4 **DR. ZIEMER:** Okay. Thank you very much. Any
5 additional comments?

6 **MR. LOCKHART:** Yes, I do, Joe Lockhart back
7 again. Dr. Neton I believe said that the
8 fertilizer plant had a hard time getting
9 started. They was making fertilizer. When I
10 went to work there in 1957, they were producing
11 fertilizer when I walked in the door, and they
12 produced fertilizer when I walked out of the
13 door. So I don't believe they had a hard time
14 making it. They made fertilizer for 40 years,
15 and I was there.

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

17 **MR. (UNINTELLIGIBLE):** This is Frank
18 (unintelligible). I (unintelligible)
19 commenting on the fertilizer and stuff that I
20 heard on (unintelligible) a few minutes ago. A
21 lot of that information is wrong. I don't know
22 where y'all got it from. It's just not right.
23 Wherever you got it from, you need to check it
24 again. We worked in that place, and nothing
25 that I heard there compared to what I witnessed

1 while working there. And where the
2 fertilizer's concerned, I load fertilizer in
3 boxcars and 18-wheelers, and even people came
4 to pick it up personally, and that went on for
5 years. Then there's a comment there about a
6 few months. That's not true. I think y'all
7 need to get back and talk to the employees and
8 let them recall and tell you what actually
9 happened that they experienced while working
10 down there, and it's a shame to have a report
11 like that. Thank you.

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

13 **MR. CLARK:** I'm Leonard Clark, and I went to
14 work at Smith and Douglas in '87, and we were
15 admonishing the (unintelligible) belts and the
16 protective siding that is made out of
17 (unintelligible) wood (unintelligible) it was
18 treated (unintelligible). And I sent for my
19 records and Social Security, and somehow Social
20 Security doesn't have them. So I sent to
21 (unintelligible). I went to (unintelligible)
22 where I was treated for cancer and they don't
23 have the years that I started being treated.
24 Seemingly something or somebody has covered
25 their tracks real well. And now 27 men in the

1 construction and I'm -- I'm saying that
2 construction workers are not being considered,
3 when we were working with the same thing that
4 the company was working with and I don't see
5 how that could be.

6 **DR. ZIEMER:** Would the -- the gentleman who
7 just spoke give us your name again for the
8 record here?

9 **MR. CLARK:** Leonard Clark.

10 **DR. ZIEMER:** Leonard Clark, okay. Thank you
11 very much. Additional comments?

12 **MR. UNINTELLIGIBLE:** Yes, my name is Bill
13 (unintelligible). I went to work there at
14 (unintelligible) in '57 (unintelligible). I
15 went there (unintelligible) because we had
16 (unintelligible) and that's what we did, 'cause
17 if you didn't do what they would tell you,
18 you're going to get (unintelligible). And I
19 know that (unintelligible) working in there
20 (unintelligible) get all in your clothes 'cause
21 (unintelligible) looking, be (unintelligible)
22 looking, and it's just all that stuff
23 (unintelligible) have to wash your clothes.
24 Ain't no telling who -- who (unintelligible)
25 have these disease now. And now I've been

1 diagnosed with (unintelligible) cancer and
2 (unintelligible). But anyway, I just want to
3 comment on it (unintelligible) gentleman
4 (unintelligible). Somebody needs to check
5 (unintelligible) look into (unintelligible)
6 right and diagnose (unintelligible) people
7 justice on it. (Unintelligible) being so long
8 in messing with this and ain't going to
9 (unintelligible). That's all I have to say
10 about it.

11 **DR. ZIEMER:** Okay, thank you very much. Any
12 additional comments?

13 **MS. MCDONALD:** Yes, sir. I (unintelligible)
14 and my name is Dolores McDonald and my husband
15 was named Aubrey McDonald, and at that time he
16 was working with (unintelligible) with
17 (unintelligible) and the reason
18 (unintelligible) at that plant.
19 (Unintelligible) outside (unintelligible). I'm
20 a mother of five kids, and my husband died a
21 young man. (Unintelligible) probably one of
22 the ones that NIOSH had (unintelligible) --
23 whatever they did. But anyway, it was a
24 hardship for me to raise those five kids by
25 myself and my husband was 49 years old when he

1 deceased and this has been going on too long.
2 Something should be done to help the people
3 because (unintelligible) I'm only one
4 (unintelligible). (Unintelligible) my husband
5 died with five men that worked with my husband,
6 died one month behind (unintelligible) and
7 (unintelligible) men (unintelligible) five at
8 one time (unintelligible). Thank you.

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

10 **MR. WILSON:** Confirming -- this is Roy Wilson
11 confirming Ms. McDonald's comment. [Name
12 redacted] was the contractor that brought in
13 the rock over to the plant. They -- they
14 brought it to the plant, so if you would make a
15 note of that.

16 **DR. ZIEMER:** Okay. And any additional
17 comments?

18 **MR. WILLIAMS:** Yes, this is Henry Williams
19 again. (Unintelligible) phosphate
20 (unintelligible) we had (unintelligible) such
21 that we -- we shouldn't have been
22 (unintelligible) but they never
23 (unintelligible). And (unintelligible). Thank
24 you.

25 **DR. ZIEMER:** Thank you. Okay, I'm going to ask

1 the Board members if they have any questions or
2 comments for the petitioners. We need to come
3 to closure here. We have several options
4 before us. One option would be to approve or
5 disapprove NIOSH's evaluation report. Another
6 option, which is suggested by Dr. McKeel, would
7 be to postpone action on this -- actually at
8 the request of the petitioners, is that we
9 postpone action till June, until at least they
10 have a chance to review all the documents that
11 have been identified. There was an additional
12 request by the petitioners that the Board ask
13 the Board's contractor, SC&A, to assist in
14 looking at the evaluation report as well. That
15 would be an option that we would consider
16 separately, should the Board decide to postpone
17 action on this.

18 Let me ask, Board members, what is your
19 pleasure at this time? Mr. Gibson.

20 **MR. GIBSON:** Paul, I move that we postpone any
21 action based on the petitioners' request.

22 **MR. CLAWSON:** I second it.

23 **DR. ZIEMER:** Okay, there's a motion and a
24 second that the Board postpone action, as
25 requested by the petitioner. Any discussion on

1 this motion? Wanda Munn.

2 **MS. MUNN:** Having listened very carefully to
3 what the petitioners brought before us, and
4 having heard the NIOSH report, it's fairly
5 clear that there's a great deal of
6 misunderstanding with regard to both what the
7 potential for exposure of the radiation type
8 was to individuals who were involved in this
9 three-month production process. There's a
10 great deal of question as well as to how the
11 documents that were being requested would
12 provide any additional information relative to
13 radiation exposure, which is our concern here.
14 There's not a question with regard to the issue
15 of this plant having been a dirty, dusty plant
16 to work in. When one knows, however, the
17 amount of radiation available in the material
18 that was coming into the plant, and the small
19 amount of material that was produced from that
20 production process, which lasted only for a
21 short period of time, it's difficult to see
22 that further information regarding the
23 ownership of these facilities or how long the
24 facilities existed afterward would provide any
25 additional information outside the bounding

1 that can be done -- we know can be done of the
2 radiation exposure. So we can certainly extend
3 the claimants' desire to have more information
4 available, but it's fairly clear that that
5 additional information is not going to change
6 the bounding capability of the work that was
7 done there. So I have no objection to our
8 postponing this, but I think we should do so
9 with the expectation understood by the
10 claimants that these pieces of information are
11 not likely to change the ability to bound the
12 radiation exposure. They can't give you any
13 more information about other kinds of exposure,
14 but our job here is radiation, and the
15 significance of any additional information is
16 likely to be remote.

17 **DR. ZIEMER:** Thank you. Other comments? So
18 you're not necessarily speaking against the
19 motion, but --

20 **MS. MUNN:** No.

21 **DR. ZIEMER:** -- the concern that the additional
22 time may just delay the inevitable, in your
23 mind. I think the petitioner may have been
24 making the point that there may be -- since
25 they haven't seen all the documents, there may

1 be something in those documents that would
2 perhaps modify something. I don't think we
3 know, necessarily, at this point.

4 **MS. MUNN:** That's understandable. Their
5 concern is --

6 **DR. ZIEMER:** Yes.

7 **MS. MUNN:** -- understandable.

8 **DR. ZIEMER:** Any other comments? Then let me
9 call for a vote -- yes --

10 **MR. GRIFFON:** Can I -- can I ask before we go
11 to --

12 **DR. ZIEMER:** -- Mr. Griffon.

13 **MR. GRIFFON:** -- before we go to a vote, I
14 think it might be useful for -- for NIOSH to
15 clarify -- 'cause several of the comments on
16 the -- on the phone were related to production
17 levels, and I think when Jim Neton was speaking
18 he was speaking to the years -- I think the '52
19 through '56 time frame, and I think many people
20 on the phone --

21 **DR. ZIEMER:** Not restricting it to all the
22 production of --

23 **MR. GRIFFON:** Right, and I --

24 **DR. ZIEMER:** -- the fertilizer years.

25 **MR. GRIFFON:** -- think production continued,

1 but it wasn't a part of the AEC program, is
2 what I understand. I just want to clarify that
3 for --

4 **DR. ZIEMER:** Here's Dr. Neton.

5 **MR. GRIFFON:** -- for everyone that's on the
6 phone.

7 **DR. NETON:** Right, Mark -- Mark, thanks. I
8 think you pretty much said what I would say
9 here, is that the petition was -- the
10 petition's request was for 1952 through 1956
11 solely. They did not petition for the residual
12 contamination period. And we have no dispute
13 with the fact that additional fertilizer
14 operations continued after 1956, '57 through
15 '70s, but those operations were not related to
16 AEC activities at all. And most of the
17 commenters that I heard actually were employed
18 after 1956, so there's no doubt that they were
19 exposed to some radioactive materials from the
20 phosphate plant, but not related to AEC
21 activities.

22 **DR. ZIEMER:** Okay, thank you.

23 **MR. GRIFFON:** So -- I mean so my mind -- I mean
24 I have two sort of remaining questions. One is
25 the residual period, but that's sort of out --

1 out of the context of what we're --

2 **DR. ZIEMER:** Of the SEC.

3 **MR. GRIFFON:** -- looking at today. And the
4 other would be the question of -- of bounding.
5 I don't dispute that the approach presented by
6 Jim presents high numbers. The question then
7 comes -- comes down to this is it
8 representative enough of this facility, and I
9 think we might want to even target -- targeted
10 -- have a targeted review of that issue alone
11 in the next couple of months.

12 **DR. ZIEMER:** Jim has an additional comment
13 here.

14 **DR. NETON:** I'm sorry, I did fail to mention
15 during my presentation that there are four
16 example dose reconstructions that we have
17 prepared that are out there on the O drive for
18 evaluation. I'm sorry, I forgot to mention
19 that.

20 **DR. ZIEMER:** Larry?

21 **MR. ELLIOTT:** Larry Elliott. I think there's
22 also confusion among the claimant population at
23 Texas City Chemicals around the residual
24 period. And just for point of clarification
25 for those folks, NIOSH does not disagree that

1 there was naturally-occurring radioactive
2 material that was inherent in the fertilizer
3 production process, in the gypsum material. As
4 we all know, there's radon associated with the
5 phosphate material that is being processed
6 during that parti-- period. The confusion
7 arises, I believe, with the way the law is
8 written and their perception of what is covered
9 under that period. So that -- that radioac--
10 naturally-occurring radioactive material
11 inherent in the limestone and the phosphate,
12 gypsum, would not be covered during that
13 period. Only the AEC-related uranium and radon
14 -- well, radon may not even reside but the
15 progeny might -- during the residual period.
16 So one, NIOSH doesn't argue that there was
17 exposure during the residual period to
18 naturally-occurring radioactive material, but
19 it's not covered under this program.

20 **DR. ZIEMER:** Thank you for clarifying that,
21 Larry. If this motion passes, we will discuss
22 separately what actions the Board may wish to
23 take in terms of studying this in any further
24 way or what assistance we might want to have
25 from our contractor in that regard.

1 Are you ready to vote on the motion? The
2 motion would be to postpone. The anticipation
3 is to the June meeting. That assumes that both
4 the petitioner and the Board are able to get
5 the information they need to come to a decision
6 in the next meeting.

7 All who favor -- let's take a roll call vote
8 here 'cause we have to get votes by phone as
9 well.

10 **DR. BRANCHE:** Mr. -- Mr. Presley, are you
11 available on the line still?

12 **MR. PRESLEY:** Yes, I am.

13 **DR. BRANCHE:** Okay.

14 **DR. ZIEMER:** Your vote?

15 **MR. PRESLEY:** I vote to postpone, with
16 reservations.

17 **DR. ZIEMER:** Okay, the vote is yes.

18 **DR. BRANCHE:** Ms. Beach?

19 **MS. BEACH:** I vote to postpone.

20 **DR. BRANCHE:** Mr. Clawson?

21 **MR. CLAWSON:** Postpone.

22 **DR. BRANCHE:** Mr. Gibson?

23 **MR. GIBSON:** Postpone.

24 **DR. BRANCHE:** Mr. Griffon?

25 **MR. GRIFFON:** Postpone.

1 **DR. ZIEMER:** These are all yeses to the motion,
2 by the way. We're not postponing the motion.
3 This is -- these are yes votes on the petition.

4 **DR. BRANCHE:** Mr. --

5 **DR. ZIEMER:** Or not on the petition; on the
6 motion.

7 **DR. BRANCHE:** Dr. Lockey is not here with us
8 today. Mr. -- Dr. Melius?

9 **DR. MELIUS:** Yes.

10 **DR. BRANCHE:** Ms. Munn?

11 **MS. MUNN:** I'll abstain.

12 **DR. BRANCHE:** Mr. Presley -- Dr. Poston is on
13 his way. Dr. Roessler?

14 **DR. ROESSLER:** Yes.

15 **DR. BRANCHE:** Mr. Schofield?

16 **MR. SCHOFIELD:** Yes.

17 **DR. BRANCHE:** Dr. Ziemer?

18 **DR. ZIEMER:** Yes. We don't need to obtain the
19 others -- I declare that the motion has
20 carried. This does not require that we obtain
21 the votes of the missing members since it's not
22 a recommendation to the Secretary at this time.
23 Thank you very much. Thank you, petitioners.
24 We are going to take a break for about 15 to 20
25 minutes, and then we will reconvene. Thank you

1 very much.

2 **DR. WADE:** You talked about what actions to
3 take. You need to talk about what actions to
4 take.

5 **DR. BRANCHE:** No, he said he was going to
6 postpone the discussion of actions.

7 **DR. WADE:** Whether or not to have your
8 contractor --

9 **DR. ZIEMER:** Oh, that's --

10 **DR. BRANCHE:** He's going to hold off on all
11 that.

12 **DR. ZIEMER:** No, we're not going to do that
13 right now. We'll discuss that later.

14 (Whereupon, a recess was taken from 11:00 a.m.
15 to 11:20 a.m.)

16 **DR. ZIEMER:** First an announcement from our
17 Designated Federal Official, Dr. Branche.

18 **DR. BRANCHE:** Again, for those of you who are
19 on the phone, if you could please mute your
20 line. And then if you don't have a mute
21 button, please use star-6 to mute your line,
22 and then when you are ready to speak, use that
23 same star-6.

24 Dr. Ziemer?

25 **DR. ZIEMER:** I wanted to see if any of the

1 Texas City petitioners are still on the line,
2 or Dr. McKeel, are you on the line?

3 (No responses)

4 Apparently not. For the record, I just wanted
5 to make it clear that the issue of whether or
6 not we will make an assignment to our
7 contractor for assistance on the Texas City
8 issue in terms of reviewing the evaluation
9 report is a matter that we will take up during
10 the Board work time later in this meeting when
11 we discuss other assignments to our contractor
12 and the various -- not only the assignments,
13 but the levels of importance of different
14 things. So we'll need to take that in the
15 bigger context of what assignments we have
16 pending and coming down the pike.

17 **MR. PRESLEY:** Paul, this is Bob Presley. I
18 just wanted to let you know I'm here.

19 **SAM LABORATORIES (COLUMBIA UNIVERSITY) SEC PETITION**

20 **DR. ZIEMER:** Thank you, Bob. Okay, let's
21 proceed then. Our next item is the SAM
22 Laboratories, Columbia University. We have an
23 SEC petition, and LaVon Rutherford will present
24 that to us.

25 **MR. RUTHERFORD:** Thank you, Dr. Ziemer. Again,

1 as Dr. Ziemer mentioned, I will be presenting
2 NIOSH's evaluation of the SAM Laboratory, the
3 SEC petition.

4 **DR. ZIEMER:** LaVon, let me interrupt you just a
5 moment. I want to make sure -- I think we do
6 have a petitioner that may be on the line.
7 Maria Zwolinski?

8 **MS. ZWOLINSKI:** Yes, I'm --

9 **DR. ZIEMER:** Okay, I just wanted to make sure
10 you were there, Maria. We'll proceed then.
11 Thank you.

12 **MR. RUTHERFORD:** All right. The SAM
13 Laboratories SEC petition is a petition that
14 was submitted under 83.14 to NIOSH by a
15 petitioner whose dose reconstruction could not
16 be completed by NIOSH. The petition evaluation
17 also considered a class of workers similar to
18 that petitioner.

19 As you heard Dr. Neton earlier, the evaluation
20 process is a two-pronged test -- is it feasible
21 to reconstruct dose with sufficient accuracy;
22 and if it is, then we do not have to go to step
23 two. If it is not, then we have to determine
24 is there a reasonable likelihood that the
25 health was endangered.

1 SAM Laboratories, a little background, Special
2 Alloy Materials or Substitute Alloy Materials.
3 SAM Laboratories, Columbia University, is
4 located in New York City, New York, and it was
5 involved in determining whether it was feasible
6 for the United States to build a nuclear
7 weapon. And it actually started prior to the
8 establishment of the Manhattan Engineering
9 District. In 1939 it actually started work on
10 feasibility.
11 Work at the SAM Laboratories ended in 1947 with
12 the establishment of the AEC.
13 A little background on the processes. There
14 were a number of radiological activities
15 occurring at SAM Laboratory. Isotope
16 separations, which included centrifuge process
17 to isolate uranium-235, there was a lot of
18 enrichment work. Research on the gaseous
19 diffusion process for uranium enrichment.
20 Neutron cross section research with plutonium
21 and other isotopes, and nuclear research and
22 development work.
23 From those processes the radiological sources
24 were uranium compounds and uranium progeny, and
25 those were associated with isotope separations

1 and enrichment processes in addition to
2 research activities. Plutonium from neutron
3 cross section work and research and development
4 activities. And then polonium, strontium,
5 potassium, phosphorus, carbon, iodine, fission
6 products and other radionuclides were also used
7 in nuclear research.
8 During our determination of dose reconstruction
9 feasibility we looked at -- we attempted to
10 capture data from a number of sources. We
11 looked at National Archives, OSTI -- the Office
12 of Scientific and Technical Information,
13 Nuclear Regulatory Commission, DOE Germantown,
14 site research database. We also contacted the
15 State of New York. We contacted the university
16 and talked to the Associate General Counsel and
17 radiation safety officer. And we also did
18 Internet searches, which has become a standard
19 practice for us with all of our evaluations.
20 From the data capture attempts we were -- or
21 internal monitoring data, we found no internal
22 monitoring records. We have eight claimants
23 currently with NIOSH, and with those eight
24 claimants we have no internal monitoring data.
25 We found no urinalysis results, breath samples,

1 in vivo counting, fecal or other bioassay
2 monitoring results for the SAM Laboratory
3 employees.

4 And there was no air monitoring data been
5 located during the covered period. We did find
6 some radon samples post-'47, in 1950 period,
7 but during the covered period we had no air
8 monitoring data.

9 External monitoring data, they had no -- we
10 found no external monitoring data for SAM
11 Laboratory employees. We found one radiation
12 survey in 1947 that was radiation levels in
13 areas around the Cyclotron, and we have no
14 radiological source term information sufficient
15 for dose reconstruction.

16 Petition overview -- again, the petition was --
17 NIOSH was unable to obtain sufficient
18 information to complete dose reconstruction for
19 an existing claim. On November 2nd a claimant
20 was notified that dose reconstruction was not
21 feasible, and we provided that claimant a Form
22 A to submit an SEC petition if they desired.
23 The petition was submitted to NIOSH on November
24 19th of 2007.

25 Our feasibility determination, NIOSH lacks

1 monitoring, process or source term information
2 to -- sufficient to estimate external or
3 internal radiation doses to SAM Laboratory
4 employees for the period of August 13th, 1942
5 through December 31st, 1947. We believe we
6 have sufficient information to estimate the
7 external dose for medical exposures for that
8 period.

9 Health endangerment, we -- once we determined -
10 - as you remember, the two-pronged test. Once
11 we determine if it's feasible whether or not to
12 reconstruct dose. If we determine it's not
13 feasible, we have to determine health
14 endangerment. We determined that it is not
15 feasible to estimate with sufficient accuracy
16 the dose, and that the health of the covered
17 employees may have been endangered. Evidence
18 indicates that workers in the class may have
19 accumulated intakes of uranium and other
20 radionuclides during the covered period.

21 In summary, our feasibility findings are that
22 dose reconstruction's not feasible for internal
23 exposures or external exposures, with exception
24 of medical X-rays.

25 And our proposed class is all employees of the

1 Department of Energy, its predecessor agencies
2 and DOE contractors or subcontractors who
3 worked in the Pupin, Schermerhorn, Havemeyer,
4 Nash or Prentiss Buildings at the SAM
5 Laboratories of Columbia University in New York
6 City from August 13th, 1942 through December
7 31st, 1947 -- and then the standard end to
8 that.

9 And again, our recommendation is to add a class
10 for the Special Exposure Cohort class from
11 August 13th, 1942 through December 31st, 1947.
12 We determined it's not feasible to reconstruct
13 dose and that health was endangered.

14 That's it.

15 **DR. ZIEMER:** Thank you very much, LaVon.

16 Before we hear from the petitioner I want to
17 ask one question. Have you established whether
18 or not those facilities were -- or utilized any
19 student assistants, individuals who would not
20 show up necessarily as employees?

21 **MR. RUTHERFORD:** We have not. I don't think we
22 got -- we went to that -- we looked into that.
23 I mean 1942 to '47 period, you know, we didn't
24 look at -- those were specifically associated
25 at that time for AEC research activities, so...

1 **DR. ZIEMER:** Yes, but this is on the Columbia
2 campus, is it not?

3 **MR. RUTHERFORD:** Yes, it is. Are you asking
4 whether they had access to those facilities?

5 **DR. ZIEMER:** Well, for example, would there --
6 could there have been Ph.D. researchers working
7 on this project that would not have showed up
8 as employees?

9 **MR. RUTHERFORD:** You know, I don't know.

10 **DR. ZIEMER:** Okay. It's --

11 **MR. RUTHERFORD:** That's something we didn't
12 look --

13 **DR. ZIEMER:** -- a question to ponder on a
14 facility like this. I assume, also, that --
15 since this was at a time --

16 **MR. RUTHERFORD:** Very national security.

17 **DR. ZIEMER:** -- of the Manhattan Project that
18 it'd be highly restricted in terms of -- ordin-
19 - ordinarily students can roam in and out of
20 facilities on campus, but they probably
21 couldn't in this particular case.

22 Larry, can you speak to --

23 **MR. ELLIOTT:** I don't know that I can answer
24 specifically. I can answer in a general sense.
25 This would be a DOL-related question as to

1 covered employment. And in some situation -- I
2 don't know -- Jeff can add to this or not, but
3 in some situations I know that a fellowship,
4 you know, that is sponsored by DOE was
5 considered -- has been considered covered
6 employment, but I don't know about a Ph.D. grad
7 student --

8 **DR. ZIEMER:** Well, I can tell -- tell you that
9 students who are not on fellowships, and there
10 are always some of those, don't show up as
11 employees. And if you go into employee
12 records, you may never find them.

13 Well, let's go to the petitioner and let's see
14 if -- Maria, are you still on the line?

15 **MS. ZWOLINSKI:** Yes, sir.

16 **DR. ZIEMER:** Yes, do you have some comments for
17 us?

18 **MS. ZWOLINSKI:** No, I don't -- I don't believe
19 I do, but --

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

21 **MS. ZWOLINSKI:** -- (unintelligible) listening
22 for (unintelligible).

23 **DR. ZIEMER:** Okay. Thank you. I have an
24 additional question. LaVon, was the Cyclotron
25 itself included in this -- in these facilities?

1 **MR. RUTHERFORD:** Yes, it was, it's --

2 **DR. ZIEMER:** It was -- physically it was there?

3 **MR. RUTHERFORD:** Yes, actually it was in the --
4 if I remember, I can -- I could tell you fairly
5 quickly, but yes, it was in one of the five
6 buildings that -- that -- I think Pupin, if I
7 remember correctly, but it is in one of the
8 five buildings. If you look in the evaluation
9 report -- in fact, I'll tell you real quickly
10 which one it was in -- Pupin. And if you look
11 at page 11 of the evaluation report, Pupin --
12 small Cyclotron in Lab Room 128.

13 **DR. ZIEMER:** Okay, thank you. When you -- when
14 you say you could not reconstruct dose, did
15 that include the Cyclotron work, or just the
16 nuclides that you named?

17 **MR. RUTHERFORD:** It -- it included all -- all
18 activities at that time, so yes, the Cyclotron
19 work there, we would not -- we did have the one
20 dose -- or we had the one survey in 1947, but
21 that was at the end of the AEC period. It did
22 not cover any of the activities preliminary to
23 that, and we did not feel that that, in itself,
24 could -- we could bound the exposures for that
25 Cyclotron activity.

1 **DR. ZIEMER:** Okay, thank you. Other questions?

2 **MR. PRESLEY:** Hey, Paul?

3 **DR. ZIEMER:** Yes.

4 **MR. PRESLEY:** Bob Presley. To add to your
5 comment, there were some undergrad people that
6 did leave Columbia University and possibly go
7 out to Los Alamos to work at about that time
8 frame that might have worked on that Cyclotron.

9 **MR. RUTHERFORD:** And that actually makes sense,
10 just because of the fact that some of the
11 material that was received at SAM Laboratory
12 was from what became Los Alamos.

13 **MR. PRESLEY:** That's correct. 'Cause some of
14 those people actually did train some of those
15 people out there, I believe.

16 **DR. ZIEMER:** Well, what I was wondering, in a
17 case like this -- and I don't know a priori, I
18 guess, but where the class definition says they
19 have to be employees, that was my question.
20 And I -- something to think about, whether or
21 not they have to be employees to be covered.
22 If they were indeed working there, that's my --
23 sort of my question. Jim, do you have a
24 comment?

25 **DR. MELIUS:** I mean, again, I think it's what

1 Larry said. I think they ha-- by the
2 definition of what's -- the Act, I think they
3 have to be employees -- yeah, but it's
4 (unintelligible) DOL. I mean where -- where
5 the line gets drawn is going to be up to DOL.

6 **DR. ZIEMER:** Yeah, I -- I suppose someone may
7 argue if -- if you act like an employee and
8 look like an employee, are you an employee.
9 But -- but the law may -- may very well exclude
10 folks.

11 **DR. BRANCHE:** It does. It does. I'm looking
12 at the law. It does.

13 **DR. MELIUS:** It's like -- those issues -- I
14 mean it comes out with volunteer firefighters -
15 -

16 **DR. ZIEMER:** Sure, right, right --

17 **DR. MELIUS:** -- there's all sorts of tests --

18 **DR. ZIEMER:** -- it's that kind of -- right.

19 **DR. MELIUS:** -- so depending on the benefit and
20 -- and how it's defined in the relevant Act and
21 so forth.

22 **DR. BRANCHE:** The law specifies the word
23 "employee" in every --

24 **DR. MELIUS:** Yeah.

25 **DR. BRANCHE:** The law specifies -- this is

1 Christine speaking. The law specifies the word
2 "employee" in every part of the Act. Now how
3 the Department of Labor then further delineates
4 what an employee is is the issue -- again, as
5 you've said, it's for the Department of Labor
6 to sort out.

7 **DR. ZIEMER:** Thank you. Okay, other questions
8 by Board members? Dr. Melius.

9 **DR. MELIUS:** With the agreement of the other
10 members of the Board, I'd like to enter a -- a
11 motion.

12 **DR. ZIEMER:** You may do so.

13 **DR. MELIUS:** Do so on that. Some of this will
14 sound familiar. Let you know that I was
15 working when I was on my airplane this morning.

16 **MS. MUNN:** You're so (unintelligible).

17 **DR. MELIUS:** The Board recommends that the
18 following letter be transmitted to the
19 Secretary Health and Human Services within 21
20 days. Should the Chair become aware of any
21 issue that in his judgment would preclude the
22 transmittal of this letter within that time
23 period, the Board requests that he promptly
24 informs the Board of the delay and the reasons
25 for this delay, and that he immediately works

1 with NIOSH to schedule an emergency meeting of
2 the Board to discuss this issue.
3 The Advisory Board on Radiation and Worker
4 Health, parentheses, the Board, close
5 parentheses, has evaluated SEC Petition 00102
6 concerning workers at the SAM Laboratories of
7 Columbia University in New York City, New York,
8 under the statutory requirements established by
9 EEOICPA and incorporated into 42 CFR 83.13 and
10 42 CFR Section 83.14. The Board respectfully
11 recommends Special Exposure Cohort -- SEC
12 status be accorded to all employees of the DOE,
13 its predecessor agencies and DOE contractors
14 and subcontractors who worked in the Pupin,
15 Schermerhorn, Havemeyer, Nash or Prentiss
16 Buildings at the SAM Laboratories of Columbia
17 University in New York City, New York from
18 August 13th, 1942 through December 31st, 1947
19 for a number of work days aggregating at least
20 250 work days occurring either solely under
21 this employment or in combination with work
22 days within the parameters established for one
23 or more other classes of employees in the SEC.
24 The Board notes that although NIOSH found that
25 they were unable to completely reconstruct

1 radiation doses for these employees, believe
2 that they are able to reconstruct the
3 occupational medical dose.

4 This recommendation is based on the following
5 factors: One, people working in the areas of
6 SAM Laboratories during this time period were
7 involved in atomic weapons research and
8 development.

9 Two, NIOSH was unable to locate sufficient
10 monitoring data or information on radiological
11 operations at these laboratories in order to be
12 able to complete accurate individual dose
13 reconstructions. The Board concurs with this
14 conclusion.

15 Three, NIOSH determined that health may have
16 been endangered for the workers exposed to
17 radiation in these areas of the SAM
18 Laboratories at Columbia University during the
19 time period in question. The Board concurs
20 with this determination.

21 Enclosed is supporting documentation from the
22 recent Advisory Board meeting held in Tampa,
23 Florida where this Special Exposure Cohort
24 class was discussed. If any of these items are
25 unavailable at this time, they will follow

1 shortly.

2 **DR. ZIEMER:** You've heard the motion. Is there
3 a second?

4 **MR. PRESLEY:** This is Bob Presley. I second.

5 **DR. ZIEMER:** Presley has seconded. Okay,
6 discussion? Wanda Munn.

7 **MS. MUNN:** May we see a hard copy of the motion
8 before we make a final vote?

9 **DR. ZIEMER:** Yeah.

10 **DR. MELIUS:** Sure can, I was just trying to
11 move it along, but fine.

12 **DR. ZIEMER:** Actually what we will do, as we
13 have done in previous meetings, is provide hard
14 copy of these motions before the end of this
15 week's Board meeting so everybody can see them
16 for a final look on the wording. This is
17 indeed our standard wording on these motions
18 and incorporates the class definition as
19 provided by NIOSH. I was tracking along here
20 and the other words are, surprisingly enough,
21 identical to other recommendations to the
22 Secretary.

23 **MS. MUNN:** Thank you, Dr. Melius.

24 **DR. ZIEMER:** Further comments or questions on -
25 - discussion? Are you ready to act on this

1 motion?

2 Okay, all in favor -- well, we'll take the roll
3 call here since we have Mr. Presley on the
4 phone.

5 **MR. PRESLEY:** (Unintelligible)

6 **DR. ZIEMER:** Mr. Presley?

7 **MR. PRESLEY:** Aye.

8 **DR. ZIEMER:** That was Tennessee for aye.

9 **DR. BRANCHE:** Ms. Beach?

10 **MS. BEACH:** Yes.

11 **DR. BRANCHE:** Mr. Clawson?

12 **MR. CLAWSON:** Yes.

13 **DR. BRANCHE:** Mr. Gibson?

14 **MR. GIBSON:** Yes.

15 **DR. BRANCHE:** Mr. Griffon?

16 **MR. GRIFFON:** Yes.

17 **DR. BRANCHE:** I'll get Dr. Lockey's vote
18 separately. Dr. Melius?

19 **DR. MELIUS:** Yes.

20 **DR. BRANCHE:** Ms. Munn?

21 **MS. MUNN:** Aye.

22 **DR. BRANCHE:** We heard the Tennessee version of
23 "aye" from Mr. Presley.

24 **MS. MUNN:** Now you've heard the Texas version.

25 **DR. BRANCHE:** I'll get Dr. Poston's vote when

1 he arrives. Dr. Roessler?

2 **DR. ROESSLER:** Yes.

3 **DR. BRANCHE:** Mr. Schofield?

4 **MR. SCHOFIELD:** Yes.

5 **DR. BRANCHE:** Dr. Ziemer?

6 **DR. ZIEMER:** Yes. The motion carries, and we

7 will present that recommendation to the

8 Secretary as -- as noted. Again, we will

9 provide you with a copy of the wording,

10 probably Wednesday during our work session, so

11 everyone has a copy of that.

12 I see that we are in fact approaching the lunch

13 hour. This is the time then for us to

14 experiment with the -- with the buffet. Where

15 do we cast our votes on this?

16 **DR. BRANCHE:** With Zaida -- Zaida Burgos.

17 **DR. ZIEMER:** Okay. We're recessed until 1:00

18 p.m. Thank you very much.

19 (Whereupon, a recess was taken from 11:44 a.m.

20 to 1:00 p.m.)

21 **DR. BRANCHE:** Dr. -- Mr. Presley, can you hear?

22 **MR. PRESLEY:** I'm on.

23 **DR. BRANCHE:** Can you hear?

24 **MR. PRESLEY:** I'm on.

25 **DR. BRANCHE:** Okay, good. Thank you very much.

1 Again, this is the Advisory Board on Radiation
2 and Worker Health, and if you are participating
3 by phone we would appreciate it if you would
4 please mute your line and when you're ready to
5 speak you can then unmute your line. If you do
6 not have a mute button, then please dial star-6
7 so as to mute your line, and then please use
8 that same star-6 to unmute the line when you're
9 ready to speak. Thank you so much.

10 Dr. Ziemer.

11 PROCEDURES WORK GROUP SUMMARY

12 **DR. ZIEMER:** Thank you. The first item on our
13 afternoon session is a -- it's labeled as a
14 procedures workgroup summary. Let me make a
15 few comments before the workgroup chairman
16 takes over, and that is that this particular
17 workgroup, in the course of their work on
18 reviewing the procedures, has -- the group
19 itself has developed a kind of procedure that
20 they want to share with the full Board, and
21 that is a methodology for tracking the actions
22 of the workgroup, the actions that relate to a
23 typical findings matrix. SC&A has been very
24 helpful in this regard, too, and Kathy Behling
25 will be giving us a presentation on that

1 shortly.

2 But first let's have the workgroup chairman,
3 Ms. Munn, kick this off and then she'll
4 introduce Kathy. Wanda?

5 **MS. MUNN:** As those of you on the Board and who
6 work with the Board know, the procedures
7 workgroup has a significant burden of material
8 that we need to go through. We have been
9 probably the most active of the workgroups for
10 the longest period of time --

11 **DR. ZIEMER:** They're all claiming that, Wanda,
12 but we --

13 **MS. MUNN:** Yes, I know, but those of us who are
14 on this group know it's been necessary for us
15 to meet on a much more regular basis than most
16 groups. It's unusual for us to go more than a
17 month without either a face-to-face or
18 teleconference meeting, simply because of the
19 burden of materials through which we must work.
20 We've, over a period of time, had three
21 separate sets of procedures which the Board as
22 a whole has chosen as selected materials for
23 our contractor, Sanford Cohen & Associates, to
24 review for content and potential technical
25 deficiency. In each case when the contractor

1 has done so, they've provided us with a
2 significant report which the working group then
3 undertakes to review and to work through each
4 of the findings.

5 As you can imagine, over a number of years --
6 since each one of these findings is not only
7 addressed, but in most cases is worked to reach
8 a solution -- what started out as a manageable
9 matrix of information has become so cumbersome
10 and so lengthy for some of the findings that
11 it's very difficult for us to follow where we
12 are and to, by looking at the matrix, quickly
13 and easily identify what is and is not open,
14 what is completely closed, what has been
15 transferred to some other group for solution,
16 or what is currently in abeyance as some other
17 activity is underway.

18 A little over six months ago our contractor
19 brought to us the suggestion that, in order to
20 assure that we had the ability to track each
21 action as we wanted to, and make certain that
22 when we were complete we had the kind of record
23 that could be traced at any time, perhaps a new
24 approach was necessary. They have brought that
25 approach to us. We've been working very hard

1 with them to fine-tune it over the last several
2 months, while at the same time attempting to
3 continue with our process of findings and
4 solutions to activities of the individual
5 procedures.

6 The leader on this effort has been Kathy
7 Behling and her associates. She is providing
8 for us today, so that you may see for yourself,
9 an overview of how this electronic system is
10 going to work. Its enormous advantage is its
11 ability to sort for a variety of items. We
12 feel -- those of us on the working group who
13 have followed this, Dr. Ziemer, Mr. Griffon,
14 Mr. Gibson and myself, feel that this is
15 definitely the way for us to go given the
16 cumbersome nature of the material with which
17 we're working. We've asked Ms. Behling to be
18 with us today to give us that overview and to
19 encourage you to present any questions that you
20 might have -- since you're not quite as
21 familiar with that as we have been. If you
22 have issues after you've seen what SC&A is
23 doing for us, please -- we're -- we're trying
24 to allow enough time for you to be able to
25 provide those questions to us.

1 Kathy, would you like to show us what you're
2 doing -- what we're doing?

3 **DR. ZIEMER:** While Kathy's coming to the
4 podium, Board members, let me mention to you
5 that on your -- the flash drive that is
6 provided for you with the various documents for
7 today's meetings, this particular presentation
8 is called "matrix presentation." You can find
9 the file so named. You will have Kathy's
10 PowerPoint slides, I believe -- or whatever
11 they -- it may not be PowerPoint. Powerful, is
12 that -- that's what they are, powerful slides.

13 **MS. MUNN:** It will be powerful.

14 (Pause)

15 **MS. BEHLING:** Good afternoon. Thank you for
16 the opportunity to show this matrix that we've
17 been working on, and I would like to begin by
18 acknowledging and applauding Ms. Munn and the
19 procedures workgroup for their willingness and
20 their effort in taking a table-based matrix and
21 turning it into an issues tracking database.
22 We envision, with the help of Dr. Branche, that
23 this tool will be used as a template for
24 designing similar databases for other
25 workgroups and for all of the important work

1 that the Board is doing.

2 The procedures workgroup designed this database

3 to capture and track findings from their

4 initiation to their resolution, and they worked

5 with SC&A to develop this system. So today I'd

6 like to present an overview of the database,

7 and I'm actually going to walk you through the

8 mechanics of logging onto the term-server where

9 this database is currently stored on the O

10 drive. And so I did make a handout -- a

11 presentation for those on the phone who can --

12 that can -- you can follow along, to some

13 extent, but I felt if we could, we could

14 actually walk through logging on to the system

15 and working through the database as it

16 currently exists.

17 So as we see here, we're going to get onto the

18 O drive and there's been a separate folder put

19 onto the O drive called "the Advisory Board

20 SC&A" folder.

21 Am I pointing at that? Do you -- okay, you're

22 seeing that. Very good.

23 And under that folder we have a sub-folder

24 called "procedures review tracking system."

25 Now one of the things I'm going to make mention

1 -- I'm going to look at the details here, so if
2 we can open this up -- okay. You'll -- this is
3 what you'll see, obviously, when you open up
4 our procedures review tracking system, and
5 there are three separate files. This is an
6 Access database. If you were to log on to the
7 system at this point and you actually see five
8 files, there -- that would indicate that
9 there's someone else on the system, and that's
10 fine because the system allows multiple users.
11 You would see a second -- a duplicate of the
12 first file, the procedures issues tracking
13 file, plus you'll also see a duplicate of -- I
14 believe it's the data file. And you'll also
15 take notice, we have another sub-folder here,
16 the referenced documents sub-folder, and I'll
17 get into more details of that folder, but
18 that's a folder that actually is going to
19 contain white papers or any supporting
20 documents that we've used during the procedures
21 review process in order to come to a resolution
22 on a finding.
23 So when you open up your folder -- it takes a
24 little while here to actually open up our
25 summary screen -- and also, let me go back. In

1 the process of logging on on the previous
2 screen we were in, Access will recognize your
3 username, and based on that it will determine
4 what level of access you have, whether you have
5 a read/write access or a read-only access. And
6 at this point the Advisory Board has made the
7 decision as to who will get the read/write
8 access and the read-only access. At this point
9 it's -- most of the data has been entered by
10 SC&A and by NIOSH, and so obviously we have the
11 read/write access.

12 **MS. BEACH:** Kathy, I'm sorry, I didn't get the
13 first part where you log on. Is it under the
14 AB pages or --

15 **MS. BEHLING:** Yes, let's go back.

16 **MS. BEACH:** I apologize.

17 **MS. BEHLING:** That's all right.

18 **MS. BEACH:** I was trying to get on the O drive
19 when you were.

20 **MS. BEHLING:** If I'm going too fast, stop me.
21 In fact, we can make this interactive, if you
22 like, and we can -- let me get all the way off
23 here. Okay.

24 See -- now you'll see, as you saw just briefly
25 there, you do see two addition-- two additional

1 sets of files, so to your left, you're under
2 the O drive, and then you're under Advisory
3 Board slash -- dash SC&A, and then procedures
4 review tracking system.

5 **MR. GRIFFON:** I think that's where the problem
6 is.

7 **MS. BEACH:** I don't see it.

8 **MR. GRIFFON:** I'm getting restricted from that
9 folder.

10 **DR. BRANCHE:** Did you get in?

11 **DR. ZIEMER:** I'm not on line.

12 **DR. BRANCHE:** Gen, are you successful in
13 getting to --

14 **DR. ROESSLER:** I can see it, but I can't do
15 anything with it.

16 **MR. GRIFFON:** Advisory Board-SC&A, I'm getting
17 a restricted -- that's a restricted folder for
18 me, so...

19 **DR. ROESSLER:** I see exactly what --

20 **MR. GRIFFON:** But I was in there before, so --

21 **MS. BEACH:** No, I actually got in.

22 **DR. BRANCHE:** You're in?

23 **MS. BEACH:** Yeah.

24 **DR. ROESSLER:** Yeah, see, it just has that
25 little --

1 DR. BRANCHE: What about you, Paul?

2 DR. ROESSLER: So I'm on the Internet.

3 DR. BRANCHE: Josie, you got in?

4 MS. BEACH: I did.

5 MS. BEHLING: And I believe I have backup
6 support on the phone with me. Don Loomis,
7 who's an SC&A team member, he's developed this
8 database for us and if we run into any
9 technical problems maybe Don can help us. Don,
10 are you there?

11 MR. LOOMIS: Yes, I'm here.

12 MS. BEHLING: Okay. Thank you, Don. Some of
13 the Board members, are you able to get on now?

14 DR. BRANCHE: Josie, you're in?

15 MS. BEACH: I'm close.

16 MS. BEHLING: I see Mr. Gibson's in.

17 DR. BRANCHE: Josie's in.

18 MS. MUNN: See, I'm just now saying I can get
19 on the network. You're connecting to a
20 wireless hot spot.

21 MS. BEHLING: Okay, everybody's in?

22 MS. MUNN: No, I'm not even on line yet.

23 DR. BRANCHE: Gen, are you in?

24 DR. ROESSLER: That's all right, let her go
25 ahead.

1 **MR. GRIFFON:** Yeah.

2 **MS. BEHLING:** Okay.

3 **MS. MUNN:** Go ahead.

4 **MS. BEHLING:** Thank you. As you see on the
5 screen now, because we do have other users on
6 the system, there are now five of the tracking
7 files that you'll see. You'll see a duplicate
8 of, as I said, the procedures issue tracking,
9 and a duplicate of the tracking, underscore,
10 data file. And you -- to get into the actual
11 database, you obviously want to select the
12 tracking folder that has the 944 K-bytes
13 associated with it and not just the 1K.
14 And I also make mention that -- as I said,
15 there -- you can have multiple users on the
16 site, and if there would be two users with
17 read/write access -- say Stu Hinnefeld and
18 myself were both on and we were making changes
19 to the database -- Access will give us a
20 warning -- you are -- you are allowed to do
21 that, but it will give us a warning if we've
22 opened up the same record and we're trying to
23 make a change to the same record. So it
24 doesn't allow that to happen, but otherwise you
25 can get onto the system and view and change

1 things simultaneously.

2 Okay, are we ready to move on? I'll go back to
3 opening up the database.

4 Okay, the database opens up to our summary
5 page, and I'll just go across this page and
6 explain to you what -- what you're seeing here.
7 the first column is our finding date, and we've
8 selected a finding date based on what the --
9 the finding date is the same date as the report
10 was issued to the Advisory Board. In other
11 words, our first set of findings had -- I think
12 there were 33 documents and all the findings
13 associated with those 33 documents are dated
14 1/17/2005.

15 The second column, you'll see our procedure
16 number, and the third column is the finding
17 number and the SC&A page number. That
18 indicates the page number in the hard copy
19 report that was forwarded to the Board.

20 Fourth column is a rating. Most of you are
21 familiar, our procedures review process
22 includes a checklist, and so we rate each of
23 the findings and we've captured that in this
24 database.

25 Then you get -- we have -- the fifth column is

1 the SC&A finding description, and the final
2 column is status of the workgroup process.
3 Now I'll just give you a little bit of an
4 explanation as to the various status. We
5 captured, or we have identified a cat-- certain
6 categories of statuses. In fact, we have a
7 drop-down box so that you can't put just
8 anything in this field. We have very specific
9 statuses so that everything is consistent.
10 The status that you see in our -- in the first
11 item that we've opened is "in abeyance," and in
12 abeyance means that, according to the Advisory
13 Board -- or to the working group, they've come
14 to resolution on that finding; however, there
15 may still be additional work that's necessary
16 such as -- a good example is NIOSH has agreed
17 to modify their procedure. So we keep this in
18 abeyance until that additional work, such as
19 modifying that procedure, has been completed,
20 and then we will go back to this finding,
21 ensure that that finding -- that modification
22 does satisfy the concerns that we had in that
23 finding, and then this item would become
24 closed.
25 Some of the other status are obviously "open,"

1 and then we have an "open in progress" -- now
2 open in progress meaning that we've already
3 started some discussion of this particular
4 finding. An open finding means that SC&A has
5 introduced this into the database, but we have
6 not discussed this. We haven't had any issues
7 resolution meetings regarding -- regarding that
8 particular finding, so we did distinguish
9 between open and open in progress.
10 We also have, obviously, "closed," meaning that
11 to the workgroup's satisfaction we've closed
12 that particular finding. We have lastly a
13 "transferred" file -- or transferred status,
14 and this is where I feel the -- this database
15 really benefits, hopefully, as I said, not only
16 the procedures workgroup but all the other
17 workgroups that are out there. Currently we
18 only have this database developed for the
19 procedures workgroup, but "transferred" can
20 indicate that at some point, if we determine
21 that this particular finding is more
22 appropriately addressed under the site profile
23 work, we can -- we can identify this as
24 transferred, and current-- and currently we've
25 been transferring things within the procedures

1 to global issues, some issues that come up on a
2 routine basis, such as ingestion and
3 inhalation, and we've categorized them as
4 global. But ultimately we might want -- we
5 might select "transferred to site profile." At
6 that point what this database will allow us to
7 do, once the site profile database has been
8 developed, it will automatically write a --
9 write that particular finding directly into the
10 site profile database, and it will get a status
11 in that database of "imported," and you will
12 know that it was imported from the procedures
13 database. And I'll talk about that a little
14 bit more when we get into the details page so
15 that -- I'll show you where we're going to
16 capture that imported status so that we always
17 know that that was an imported item into the
18 various work-- workgroups.

19 While we're on this page I should ask is -- is
20 there any questions before I move on? I may
21 answer maybe some of your questions once we go
22 through this, but I can entertain questions.

23 (No responses)

24 Okay, we'll move on then. I'm going to scroll
25 down here and pick a file that I can show you

1 the details screen. Here we are.

2 Put your cursor on ORAUT-OTIB 17, and it's
3 finding 06. If you put your cursor on any of
4 these fields -- now I lost my screen here, I'm
5 sorry. Let me do something. I

6 (unintelligible) something here so I can see my
7 tabs again. I lost my tabs at the top because
8 I have too many screens open -- too many --

9 **MS. MUNN:** Too many icons.

10 **MS. BEHLING:** Yes. See if I can get some of
11 these -- oh, here we go. Let's go back, start
12 over.

13 Okay, what I was trying to get to is the
14 details screen, and I was actually going to
15 scroll down and use a different details -- open
16 up a details screen for a different finding,
17 but I take notice I did lose my tabs there. So
18 let's open a details screen and I'll give you
19 an understanding of what is on this details
20 screen.

21 What we had initially envisioned when we --
22 when we -- we looked at designing this database
23 is -- I know Wanda and the workgroup were
24 interested in having a summary sheet which will
25 list all of your findings up front, and then an

1 individual sheet for each finding that
2 describes what happened to that finding from
3 its initiation through its resolution. And
4 that's what you're seeing on this details tab.
5 Again, you'll see the procedure number, and we
6 repeat some of the issues -- the first line
7 pretty much repeats everything from the summary
8 sheet. And we also have an internal review
9 objective that, again, is an item that comes
10 off of our checklist and SC&A can put that
11 information in to capture that also. In fact,
12 we've used that information on our summary
13 report.

14 As you go down then you'll see the SC&A finding
15 date and a full description of that finding.
16 And underneath there you'll see NIOSH response
17 date and their complete response.

18 The bottom portion of the screen is -- each --
19 what gets captured through -- at each of the
20 workgroup meetings, and currently you see for
21 the -- for the -- the finding that I have
22 identified on the screen, the -- there's been
23 only one workgroup meeting, and we can capture
24 the date of that workgroup meeting, any
25 discussion that was held by NIOSH and SC&A, and

1 then any directives that were given to either
2 NIOSH or SC&A during -- during the working
3 group, and then follow-up. And as you can see
4 on this record, in the bottom, we have one
5 record -- because there's only been one
6 workgroup meeting. If there were several
7 workgroup meetings at the bottom here you'd see
8 this would be record one of two.
9 Also the related link section right here where
10 I have my cursor, this is where you will put
11 the PDF file name of any white papers or
12 supporting documents that may have been
13 required as part of resolution to this
14 particular finding. And you will actually have
15 a link to the referenced document sub-folder,
16 and it will open up that PDF file directly from
17 -- from your details screen.
18 The other thing that you can take notice of is
19 under the internal notes, when we do have other
20 databases developed -- and I talked about
21 adding a status for "imported" -- once we
22 import a finding into a new database, we will
23 also have a note put into the internal notes
24 section indicating that this particular finding
25 came from this workgroup, so that we always

1 capture that. Because as we start to work
2 through this finding, that status will change
3 to open in progress and ultimately closed. But
4 we want to be able to capture the fact that
5 this was a finding that was imported from some
6 other workgroup.

7 And at the bottom you can see -- rather than
8 going back to your summary screen to look at a
9 previous or the next details screen, we do have
10 buttons that will take you directly to the next
11 summary.

12 Okay. Now we're going to go to the filter and
13 sort section -- the button -- and this -- this
14 is the screen that will be pulled up when you
15 hit "sort and filter." On the left-hand side,
16 as you can see, we have three levels of
17 sorting. And in this particular example any
18 docum-- or any of the findings that are pulled
19 up will be sorted first by procedure number --
20 and I might go on to say, we tied procedure
21 number and finding number together because we
22 thought it was important that when you pull up
23 a certain procedure the finding numbers are
24 sequential after that. So those two fields on
25 your summary are also -- are tied.

1 The second-level sort on this example would be
2 the finding date, and then you can go as far as
3 a third-level sort which -- as you see here on
4 the radio button that's selected, that would be
5 your stat-- the status of the workgroup
6 process.

7 Now for filtering, we have -- first of all, our
8 first filter is -- we can actually sort data on
9 key terms. I'm going to use the term
10 "ingestion," and hit the "OK" button and go
11 back to my summary screen, and you can see
12 there were five findings found with the word
13 "ingestion" -- I use ingestion because that is
14 one of those -- it's a finding that we also
15 often have with our global issues. And that
16 word can be anywhere in our details list, our -
17 - in an-- in any of the fields of our details
18 screen. It just so happens in this particular
19 case the ingestion is in the -- the SC&A
20 finding description, but that -- if that word
21 were to show up in NIOSH's response, or
22 anywhere else in this details screen, it will
23 pull that record.

24 And I'll also just walk through a few other
25 sorts. As you can see, you can -- if you

1 uncheck certain things, that takes it out of
2 the list and so right now I'm going to check
3 only "open" and "in abeyance" and look at the
4 number of records we have. The other thing I
5 will point out -- if we go back to our summary
6 screen it shows -- that's -- go back one more
7 time -- oh, it's -- I kept "ingestion" in
8 there. Let's take "ingestion" out and --
9 "open" and "in abeyance" -- and our summary
10 screen then shows -- and at the bottom of the
11 summary screen you can see we have 309 records
12 that were identified as a result of filtering
13 for "open" and "in abeyance," and they are
14 sorted by "in abeyance," as we had requested.
15 Now the "print summary" screen -- and I just
16 selected that screen. It's going to take a
17 little bit longer. I should have used less
18 data here, and I won't stop it at this point,
19 but what that "print summary" screen is going
20 to do is it's going to set up a file for us so
21 that it will print this summary screen, and
22 I'll show you how we save this to a PDF-type
23 format that can be used during your working
24 group meetings. Unfortunately there were 309
25 records on this particular sort and so the

1 print screen -- it takes a little bit longer.
2 I should have used -- I should have used my
3 "ingestion."

4 But while this is working, I guess the
5 mechanics of entering all of this data was
6 initially done by SC&A. We went back to our
7 original matrix tables and we were able really
8 to fairly quickly convert what is on those
9 tables into an Access -- or into an Excel file
10 and then into this database. So we weren't
11 able to capture -- at least from the first set
12 -- all of the information from the workgroups,
13 and we didn't think it was necessary to go back
14 to all of the transcripts to try to capture
15 everything, but we at least were able to load
16 that data rather quickly by going back to the
17 initial table format.

18 I apologize here for this...

19 The other thing I will make mention of, on this
20 particular screen at the top you see, in red,
21 "Filter is ON," indicating that you're not
22 looking at a complete database. And when this
23 is done printing I'll go back and show you this
24 complete database at this point has 472
25 records, I believe.

1 Does anyone have any questions while we're
2 waiting?

3 **MR. CLAWSON:** Not yet, but I'll betcha in the
4 middle of the night we will.

5 **MS. MUNN:** One of the things I'd like to point
6 out, from a previous page that Kathy was
7 showing you, was the advantage that the
8 completed page is going to have as a permanent
9 archive record. You will be able to go to that
10 page, long after it's closed, and identify when
11 the finding was identified, what response to
12 the finding was first given, what activity
13 occurred in the working group, how many times
14 it was discussed in the working group, what the
15 -- each step of the process was, and what the
16 final resolution will be -- all on a single
17 page on a single document. That would be for
18 any given finding, not just for the procedure
19 itself but for any given finding on that
20 procedure. That's foreseen as being very
21 helpful historically as these similar kinds of
22 issues arise from one site to another.

23 **MS. BEHLING:** Okay. And I think we're ready
24 here to move on, but the -- after the print
25 screen is ready, you get an opportunity to type

1 into this area a header. And typically I would
2 identify the date and the fact that SC&A
3 printed this document out -- I'll use that as
4 an example, and we'll click "OK," and this is
5 the type -- this is the first page of 25 pages
6 for a summary report.
7 One of the things I'll also point out is -- and
8 this is a unique feature to this database -- is
9 we have -- if we want to go ahead and print out
10 the details for everything that's identified in
11 the summary report, you see the fourth column
12 is a details page number, and so it
13 automatically numbers each of the details page
14 behind this, so we can go directly to that page
15 to identify the details of each of these
16 findings.
17 In order to print this, you will go to "file,"
18 "print," and then you will select your Adobe
19 PDF, and at that point you would save -- you
20 would name your file and save it to your U
21 drive, as I'm walking through here -- because
22 this is the type of documentation that you'll
23 be actually using during your working group
24 meetings for -- it becomes your -- your new
25 matrix.

1 I want to go back and show you just a few more
2 features of the filter screen because not only
3 can we filter on a particular phrase, you
4 obviously -- as you see -- can filter on any of
5 the categories of the status. We can also
6 filter on a particular procedure number. And
7 they're in a drop-down box and as you start to
8 type them, it will automatically go to -- let's
9 go to an ORAU -- as you can see, it opens up
10 the first ORAU-OTIB and it automatically goes
11 there.

12 Also, as I talked earlier, the finding dates --
13 we have specific finding dates in here that are
14 based on our first set, second set, third set,
15 additional finding dates for some of the
16 procedures such as PROC-92 that we were
17 requested to submit separately, and you can
18 sort on any of those dates. Also our ranking,
19 you can sort by ranking, and then lastly by
20 updated on or after. And this is for people
21 that have read/write access and want to be sure
22 that they have truly updated a particular
23 record, you can put a certain date in here and
24 go back to make sure that you have updated the
25 records that you wanted to update. I'll give

1 you... and that shows you as of 3/14/2007 we
2 had made an update to 14 different records.
3 There is also -- next to your print summary
4 screen there's a print details screen, and as I
5 indicated on the -- when you looked at your
6 summary, it would print all of those details.
7 In this particular case it would be 14 pages of
8 details, and it would print all of those. And
9 our last button here is -- if I select one
10 particular finding and select my print details
11 for the selected finding, I can print just that
12 particular finding -- that particular detail
13 finding. And here it gives us the opportunity
14 to put a footer in so that you can keep track
15 of the date that you printed these, which is
16 useful, obviously, when you're getting ready to
17 have a meeting and you want to put a particular
18 date that everybody should be following -- or
19 using for this particular matrix.
20 And I believe that sums up the matrix. I've
21 walked you through most all of the components,
22 and I don't know if anyone has any other
23 questions.
24 As I said, I think one of the nice features is
25 the sorting that has been put in, and also the

1 fact that ultimately you will be able to link
2 findings between one workgroup and the other.
3 I know we've always been concerned about the
4 fact of have we really captured that finding
5 when it's transferred to a new workgroup, and
6 this will certainly ensure that we have.
7 Also I'd just make mention that all of the
8 documents that are ultimately going to be put
9 into the "referenced" folder, those documents -
10 - we will follow all the same protocols that we
11 use now, such as putting the disclaimers on
12 them and ultimately making sure that they are
13 PA-reviewed -- Privacy Act-reviewed.
14 And that sums up my presentation.

15 **DR. ZIEMER:** Okay. Thank you very much, Kathy.
16 Wanda, do you want to lead this?

17 **MS. MUNN:** I'm astounded there are no
18 questions.

19 **MR. CLAWSON:** Well, we're still trying to
20 figure our way through it.

21 **DR. MAURO:** We'll call you about 3:00 in the
22 morning.

23 **MS. MUNN:** Dr. Melius.

24 **DR. MELIUS:** I have a question, but not for
25 Kathy. It's for you, Wanda. Where are we in

1 terms of a report from the workgroup for Board
2 action -- which was my original question at the
3 last meeting. I mean this is very helpful and
4 so forth, but I'm not sure it sort of tells
5 where we are -- sort of trying to come to
6 closure with -- overall with the workgroup's
7 activities.

8 **MS. MUNN:** That was my next topic --

9 **DR. MELIUS:** Well --

10 **MS. MUNN:** -- after Kathy had completed her --

11 **DR. MELIUS:** -- then I will take --

12 **MS. MUNN:** -- her presentation.

13 **DR. MELIUS:** I'm sorry. You asked for
14 questions, I --

15 **MS. MUNN:** Yes, I did.

16 **DR. MELIUS:** -- was trying to accommodate.

17 **DR. ZIEMER:** They do have a report on that as
18 well, but let's -- let's get --

19 **DR. MELIUS:** Okay.

20 **DR. ZIEMER:** -- focus on this for a moment.

21 **MS. MUNN:** If there are no questions, Kathy, I
22 assume you are available by telephone or e-mail
23 for puzzled members who are trying to get
24 through to a specific piece of information and
25 are not exactly sure where to go.

1 **MS. BEHLING:** Yes, I will certainly make myself
2 available. And also as I indicated, if there
3 are more technical type questions or any
4 problems with getting onto the system, Don
5 Loomis within SC&A will also be able to help
6 and I can share his e-mail and telephone number
7 with the rest of you.

8 **DR. ZIEMER:** Basically this takes off our
9 original matrix type of system that we've had a
10 fair amount of experience with, and it allows I
11 think just to keep track of what -- many of
12 these matrices, and I know Mark faces it with
13 the dose reconstruction matrices, you kind of
14 lose track of what you did on each item and how
15 it was fully resolved or what you did along the
16 way. And this allows a good mechanism for
17 tracking all those things.

18 John Mauro.

19 **DR. MAURO:** If I may, we're going to be having
20 a procedures work-- meeting that's scheduled,
21 coming up, and I think one of the things that's
22 always most important is when we arrive at the
23 meeting we want to sit down and open up all of
24 the procedures that are active. Other words,
25 usually -- I mean based on this setup, there

1 are a lot of questions you might ask of it, and
2 one of the first things is okay, we're ready to
3 start. What we're going to do today is we're
4 going to go and revisit all of -- let's say the
5 first group or whatever group of procedures,
6 maybe the second group, and in that group we'd
7 like to start -- get back to reviewing all of
8 the findings that have been open and active,
9 because we are still working on them. So if --
10 and -- so we'd like to let's say generate a --
11 a matrix that we could all work from, because
12 if we all agree around the table that's what
13 we'd like to do today -- and I guess I'm
14 putting you on the spot 'cause I know from a
15 practical standpoint, that's usually what
16 happens.

17 **MS. BEHLING:** Uh-huh.

18 **DR. MAURO:** You sort of sit down, say okay,
19 we're going to go and take on this batch. Is
20 there a way for you to produce that file that
21 is -- let's say all the procedures that are
22 open and active, and that's what we're going to
23 look at today.

24 **MS. BEHLING:** Yes. And one second and I'll --
25 I logged off here, but one second and I'll just

1 try to do that. In fact, before our last
2 procedures workgroup meeting I contacted Wanda
3 and said what type of matrices would you like
4 for me to generate for you and gave some
5 suggestions as the fact that we're still
6 working on the second set, we have -- we have
7 discussed most of the items, the findings, on
8 the second set but there's still some things
9 that are open and in progress. So we could
10 select that as a filter and generate a matrix
11 in a PDF-type format that can be distributed to
12 the workgroup and we can work from there.
13 But let's use John's example. Okay, there we
14 are. One of the things I also want to show you
15 is I'm going to select all of the records that
16 we have in the database and show you --
17 currently, from the first three sets of fin--
18 of procedure reviews and some supplemental
19 reviews, we currently have 472 findings
20 identified in the -- in this database, as you
21 can see in the lower left-hand corner. And in
22 order to sort that database we can look at --
23 let's look at open and in progress for our
24 second set, which was 6/8/2006. So based on
25 the selection that I've made on this filtering,

1 we're going to -- hopefully the database will
2 produce for us all the open and in progress
3 items from the second set of procedures that we
4 reviewed. And as you can see, there are 53
5 findings and it has identified them by
6 procedure number and finding number, showing us
7 all the open items -- well, there's some in
8 abeyance.

9 **DR. MAURO:** Kathy, I notice you left "in
10 abeyance" in the -- in this section --

11 **MS. BEHLING:** Did I -- did I --

12 **DR. MAURO:** Yeah, you did that.

13 **MS. MUNN:** "In abeyance" was still in there.

14 **MS. BEHLING:** Well, that's a good thing. If I
15 would have unchecked that and we would still
16 see "in abeyance" I would have been more
17 concerned.

18 There we are. There are 42 findings from the
19 second set of procedures that we reviewed that
20 are open or open and in progress. So this
21 would be a starting point for -- let's say the
22 next workgroup meeting. Obviously we have a
23 lot of open items that haven't been discussed
24 yet, and so we would print this summary page
25 and the print details for these 42 findings and

1 that would become -- save them as PDF files and
2 the working group chair would then distribute
3 those as the matrix for the next meeting. That
4 was a good example to walk through the process.
5 **MS. MUNN:** One of our processes that we have
6 followed in this workgroup, given the enormous
7 number of findings that we have, is to approach
8 the most critical ones first, which leaves us
9 with a large number of open items that are, in
10 numerical status, large. But the actual number
11 of significant open items may be considerably
12 lower than that. We've -- we've, from time to
13 time, also postponed the work that we were
14 doing on existing procedure findings because
15 the work of the Board has brought up an item or
16 a procedure of some type that we felt needed
17 immediate attention, and the workgroup has --
18 has made an effort to work directly with SC&A
19 to resolve that outstanding issue on a timely
20 basis. So these pieces of data that you see
21 before you are all individual pieces of -- of a
22 much larger picture, a significant number of
23 which have been closed in the process of our
24 activities. And in our future meetings we will
25 undoubtedly begin with this type of printout in

1 front of us. We will, however, continue to
2 focus on the dozen or so outstanding items that
3 we have from findings that are in work right
4 now and/or in the process of technical
5 exchanges between NIOSH and the contractor with
6 respect to final closure.

7 **MS. BEHLING:** If there's no other questions, I
8 will close -- close down.

9 **MS. BEACH:** Kathy, I have a real quick
10 question. When I went to print, I got a detail
11 report footer and I -- you probably mentioned
12 it, but --

13 **MS. BEHLING:** Yes, it just allows you to put in
14 maybe a date that you're printing that footer,
15 and I put in -- I typed in "test" as we were
16 going through this process, just to show you --
17 we decided to do the headers and footers just
18 because when you look at the print screen,
19 there was really not a lot of room for the
20 header on the details screen so we made it a
21 footer, but it's just a means of being able to
22 identify a date.

23 You'll also see at the bottom of the summary
24 and the print details screens on the lower
25 right-hand -- there's your detail footer --

1 detail report footer, and I'll just put in our
2 date today -- I believe that's the date.
3 The other thing you'll see is the last time
4 that the database was updated, and --

5 **MS. MUNN:** Which is today.

6 **MS. BEHLING:** -- which I have to enlarge to be
7 able to see -- which is today. I think earlier
8 today I may have -- I thought it was -- yeah,
9 4/7/2008, I'm already jumping ahead of myself.
10 But you do see number of pages and the last
11 time that the database itself was updated.
12 And as I indicated under the filter screen, if
13 you want to determine which records were
14 updated, that's an option -- as of such-and-
15 such a date, that's an option with your last
16 filter, where it says "updated on or after,"
17 you can determine what records were updated as
18 of a certain date.

19 **MS. MUNN:** A question I should have asked you
20 earlier, Kathy, is the third set of data
21 completed now in terms of population or are we
22 part-way through that?

23 **MS. BEHLING:** Yes. No, the third set of data
24 has been populated in the database. And in
25 fact, I believe that's what I used -- I did

1 take this database and that's what I used to
2 forward to you and to NIOSH to start working on
3 our third set. Those will all be open items.

4 **DR. ZIEMER:** Thank you very much. Wanda, are -
5 - are you going to proceed to the second
6 question that Dr. Melius --

7 **MS. MUNN:** Yes.

8 **DR. ZIEMER:** -- asked now or --

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

10 **DR. ZIEMER:** -- do you want to do that during
11 your workgroup session -- or during the --
12 you're prepared to --

13 **MS. MUNN:** Well, I think we need to report on
14 where we are with that, yeah.

15 The workgroup had felt that, because of the
16 enormous amount of data that we have handled
17 since our inception, it was time for us to
18 report to the Secretary what the progress was
19 of this particular group. Doing that is not an
20 easy task. It simply does not lend itself
21 easily to numerical reports.

22 SC&A has done us a great favor of providing a
23 draft for us to begin our work. The draft
24 attempts to cover the scope of what we have
25 done, and to report on this particular work

1 gives some feel for what it will allow us to do
2 in the future.

3 We're well aware of the fact that if the
4 report's going to be of any value there has to
5 be an executive summary of it that is cogent
6 and brief enough to be meaningful to the staff
7 and to the Secretary when that report is
8 received. So I had committed to work with the
9 draft that was before us. We were making an
10 attempt to compile a full report on the first
11 set of 33 procedures that we have been working
12 with.

13 I was unable to manipulate my own files in a
14 way that I could provide the original authors
15 as smooth a piece of work as I had hoped we
16 might be able to provide as a draft for the
17 Board to review here today. This is seen as
18 being a relatively short report, but with a
19 two-page executive summary and several
20 appendices that will provide the reader with
21 enough information to understand where that
22 first set of procedures are and what we -- how
23 we intend to proceed in the future.

24 It's my expectation that we'll be able to have
25 that draft in a format for the Board itself to

1 take a look at and make comments on sometime
2 within the next few weeks. Our -- our next
3 workgroup meeting is scheduled for May 20.
4 Certainly well before that we hope to have a
5 very smooth copy in your hands. We don't want
6 to delay this much longer because it has indeed
7 been a significant amount of time and we have
8 not given any report at all to the Secretary.
9 So if the Board in itself is amenable to that,
10 we'd like to propose that we try to get into
11 your hands sometime in the next few weeks the
12 draft of what we would like to have, as a
13 workgroup, go forward to the Secretary --
14 simply as a report. No recommendations, simply
15 as a report of what this workgroup has been
16 involved in in the last few years and what the
17 new process for tracking the materials is going
18 to look like.

19 **DR. ZIEMER:** I might add, the workgroup did
20 look at a draft of a proposed report and asked
21 SC&A to make some modifications in that to put
22 it in a format that was -- looked more like
23 what we would expect to send to the Secretary.
24 So it will be a brief -- I think you described
25 it -- two or three-page report with some

1 attachments which summarize the extent of the
2 reviews and the findings of the reviews. So --

3 **DR. MELIUS:** Yeah, let me just -- 'cause I was
4 -- keep getting confused whether -- so
5 basically that would be at the point at which
6 the Advisory Board would concur or not concur
7 with the findings of the reviews.

8 **DR. ZIEMER:** I -- I think what -- what we're
9 talking about is two different things here.
10 One is what you just -- and with the --
11 concurring with the findings.

12 **DR. MELIUS:** Yeah.

13 **DR. ZIEMER:** The other is a report to the
14 Secretary which will describe how the -- how
15 the review was done and yet summarize those
16 findings, and in fact what we're trying to do
17 is express in some way -- and this is -- this
18 is what has delayed it a little bit -- what the
19 impact of those findings has been as far as
20 feedback in to NIOSH and what has changed as a
21 result of the review. So I think that's what's
22 being looked at.

23 But the findings themselves remain to be fully
24 clos-- closed out as a separate action. I
25 believe that's the case. It would be --

1 **MS. MUNN:** Yes, yes.

2 **DR. ZIEMER:** -- the first set of 33 -- yeah.
3 So those have to be separately closed out, in a
4 sense.

5 **DR. MELIUS:** Then -- then what is the timing on
6 that? I mean I -- 'cause this is the actions
7 of a workgroup that -- that the other Board
8 members have had not had any input into, and --
9 and with the other situations we're in, we have
10 -- and we need to do this to get the work done,
11 so I'm -- I'm not trying to underestimate the
12 amount of work involved or the difficulties of
13 coming up with a quick summary. It doesn't
14 lend itself to the kind of summary that we do
15 for the individual dose reconstruction reviews.
16 But for the individual dose reconstruction
17 review, two things. All the Board members
18 could or -- you know, and have participated in
19 that, at least on some of the individual dose
20 reconstruction reviews that are -- that are
21 part of each set. Secondly, there's -- there's
22 an opportunity when that now subcommittee but
23 was a workgroup reports back to the Board with
24 a report, we -- we essentially have an
25 opportunity to discuss the findings. And we've

1 actually -- particularly early on, but -- but
2 continue on, we've sort of -- certain kinds of
3 findings get highlighted and we've had debate
4 and discussion over what's an appropri-- you
5 know, is that finding appropriate, how do we
6 express it and so forth.

7 And what I'm concerned about is with the
8 procedures workgroup we haven't had that
9 opportunity yet and I'm still not clear that we
10 even are with this first report. And I -- you
11 know, I -- but I mean I could wait and see what
12 -- what's in the report, but -- but I think the
13 -- you know, if we're going to take a Board
14 action and report to the Secretary, I would
15 certainly prefer to do that having had the
16 opportunity to review the -- the substance of
17 those reviews and an opportunity to concur or
18 not concur with -- with the findings of the
19 reviews as they've been passed on to -- to
20 NIOSH. And I worry that these are getting
21 passed on and a long period of time has gone by
22 and -- again, without Board involvement,
23 there's -- activity.

24 Now again, we have that with some of our SEC
25 workgroups and it's just -- you know, some of

1 it's just the nature of the process, and I
2 think this is even a more difficult process to
3 decide how to manage, given the number of
4 procedures there are to review. But I think we
5 need to think it -- sort of how do we, you
6 know, get the Board involvement -- and
7 particularly, you know, this is the first step
8 so -- time we've reported, so...

9 **DR. ZIEMER:** Well, process-wise, we have to
10 close out the issues before the report goes to
11 the Secretary, so that has to happen and that
12 would be a natural outcome of the workgroup's -

13 -

14 **DR. MELIUS:** Okay.

15 **DR. ZIEMER:** -- work. But at the same time, I
16 basically -- and Wanda has agreed -- that we
17 need to be thinking about reporting -- I don't
18 think we're mandated to do this, but to think
19 about reporting these findings -- or reporting
20 this activity to the Secretary. So there's
21 been developed what you would call a template
22 of what -- what that is going to look like.

23 **DR. MELIUS:** Okay, it was just --

24 **DR. ZIEMER:** But you're quite right, the --
25 we've got to close out the findings before we

1 can report --

2 **DR. MELIUS:** Okay.

3 **DR. ZIEMER:** -- to the Secretary.

4 **DR. MELIUS:** Yeah.

5 **DR. ZIEMER:** And again, the other part of it,
6 as I suggested, was that we need to -- to
7 evaluate what the implications of those
8 findings, or the impact, is. In other words,
9 is this exercise, you know, having any impact
10 on the program.

11 **DR. MELIUS:** Yeah.

12 **DR. ZIEMER:** And if it's not, why not, or if
13 so, do -- or if not, what do we change.

14 **DR. MELIUS:** Yeah.

15 **DR. ZIEMER:** So that's -- that's the other
16 part. But Wanda, you -- has additional
17 thoughts on this.

18 **MS. MUNN:** I have a couple of additional
19 thoughts, yes, strangely enough.

20 First of all, I don't believe the concept of
21 bringing all of the resolved findings to the
22 Board for validation has been on my list of
23 priorities. I haven't thought of doing that
24 particular action in that way. I would suggest
25 if the Board wants to in fact look at each of

1 the resolutions and concur on them that we need
2 to have a full Board meeting of at least three
3 days to look at the findings that have already
4 been closed and taken care of, because there's
5 a bunch. And I'm not -- I -- I suppose my
6 thinking had been that once we had essentially
7 closed the major findings on a procedure, that
8 perhaps procedures, as an entity, might be
9 discussed by the whole Board.

10 **DR. ZIEMER:** Well, this may be perhaps a little
11 like what we had with the dose reconstruction
12 findings. The Board can't go through every
13 procedure. You -- Kathy told us how many
14 findings there were -- you know, 400 and
15 whatever it is.

16 **MS. MUNN:** Yeah.

17 **DR. ZIEMER:** And to sit here individually and
18 debate those findings is probably not
19 beneficial. On the other hand, many of those
20 findings -- a lot of the findings group
21 together. They're repeated kinds of findings,
22 as we have in dose reconstruction, so there --
23 there can be a pooling of those things. We can
24 say there were -- findings of this nature and
25 here's how they were resolved. There's

1 findings of another type and here's how they
2 were resolved. So with the -- I think with a
3 proper summary of what was handled and the
4 highlighting of really what -- somebody has to
5 make a judgment -- and I think the workgroup is
6 the one that does this initially -- is make a
7 judgment of what are the really significant and
8 thorny issues that were uncovered in the
9 process, and then ask for the full Board to
10 look at that. We can make all of the
11 background information and the full matrix
12 available, and anyone would be free to go
13 through that and -- and at -- you know, look at
14 particular things that might be of interest.
15 But I think it's not unlike what we do with
16 dose reconstruction.

17 **MR. GRIFFON:** I think it's similar. You have
18 the opportunity to weigh in, but -- but it's
19 more we're going to discuss groups of types of
20 findings. We're not going to go through every
21 one again, I don't think, so -- I don't think
22 anybody here wants to do that.

23 **MS. MUNN:** It's a little difficult to know how
24 to proceed and how to sort whether the
25 workgroup's evaluation significance is going to

1 be the same as the Board's desire to weigh in
2 on significance.

3 **DR. ZIEMER:** But in a sense, we do something
4 like this even as we prepare the summary report
5 because we have to be able to summarize it to
6 the Secretary. And we have, in our draft,
7 categorized -- I think it's five categories of
8 issues that are looked at. Is it five or
9 seven, I forget?

10 **MS. MUNN:** There are -- there are actually
11 seven criteria --

12 **DR. ZIEMER:** Yeah, seven criteria --

13 **MS. MUNN:** -- by which they're judged.

14 **DR. ZIEMER:** -- and we -- and we can look at it
15 in terms of those frameworks.

16 Jim, you have an additional --

17 **DR. MELIUS:** Yeah --

18 **DR. ZIEMER:** -- comment here?

19 **DR. MELIUS:** -- only if -- I mean if --
20 recalling back to when we were starting to do
21 the dose reconstruction reviews, I think most
22 of us -- or at least many of us -- read all the
23 initial 20 reports, and we struggled with the
24 same issue of how to -- how to pull it toget--
25 you know, together and what were significant

1 findings and so forth. And you know, we
2 probably have to take it on -- on incrementally
3 and do that, and I don't see if there's a
4 problem that should there be a particular
5 procedure that's problematic or particularly
6 significant in terms of what the
7 recommendations would be or, you know, what
8 should NIOSH's follow-up be, that we don't
9 devote some time at a full Board meeting to
10 discussing that specific procedure. But I
11 think we start with -- and whether it's 25, 50,
12 whatever it is, I don't know how you -- you've
13 gone about it, but I think we -- we need to
14 have some way of coming to grips with this.

15 **MS. MUNN:** May I suggest that we provide for
16 the entire Board the draft of the overview of
17 this first set of procedures so that you can
18 see the tack that this report is expected to
19 take. If you find issue with that, if you feel
20 that it needs to be expanded, or if you feel
21 there are specific procedures in that group
22 that you would like more clearly defined, then
23 we can certainly work with the full Board's
24 recommendation to go into more detail or to
25 approach this in a different way. We'll be

1 glad to provide the -- I -- it's our intent to
2 provide a draft for you to take a look at in
3 the coming weeks. This is only the first set
4 that we're looking at. We have not undertaken
5 the same activity for the second or the third
6 sets.

7 **DR. ZIEMER:** And in fact I think we're learning
8 here how to evaluate what the findings are and
9 what to do with them, so -- and as I say, I
10 think the summary report at least gives a good
11 framework from which this Board can discuss
12 those findings if -- and -- and make that
13 evaluation.

14 So I -- I do -- I do want to make sure that
15 everybody has an opportunity to weigh in on --
16 on issues, if necessary. The Board -- or the
17 workgroup is doing really the foundational work
18 here, and the matrix will be very helpful so
19 that you can easily track what was done and how
20 it was resolved on every single issue.

21 So -- any other comments or questions for Wanda
22 or the workgroup?

23 (No responses)

24 Thank you very much. We appreciate everything
25 that was done, and also Kathy and the SC&A team

1 that helped develop the -- the matrix -- the
2 new matrix, I'll call it. Thank you very much.

3 **HORIZONS, INC. SEC PETITION**

4 Our next item is Horizons, Incorporated. And
5 let me check -- before we have the presentation
6 from NIOSH by LaVon for Horizons, I want to see
7 if Glenn Abraham is on the phone.

8 **MR. ABRAHAM:** Yes, I am.

9 **DR. ZIEMER:** Thank you, Glenn. And after we
10 hear from Mr. Rutherford we'll give you an
11 opportunity, if you have comments, as well.

12 **MR. ABRAHAM:** Thank you very much.

13 **DR. ZIEMER:** I think -- I think the Board
14 members have received a statement from you by
15 e-mail, as I recall. I believe it was
16 distributed -- yes, I'm -- I'm getting
17 confirmation here. The Board members did
18 receive as well your statement, Mr. Abraham,
19 and we'll give you opportunity to comment here
20 shortly. So here's Mr. Rutherford first.

21 **MR. RUTHERFORD:** All right. Thank you, Dr.
22 Ziemer. As Dr. Ziemer mentioned, I will be
23 presenting Horizon's evalua-- or NIOSH's
24 evaluations of the Horizons, Inc. SEC petition
25 evaluation.

1 As indicated, NIOSH received the SEC petition
2 on July 26, 2007. The petition was qualified
3 on October 11th. The qualifying basis provided
4 by the petitioner was that, to the best of that
5 petitioner's knowledge, there was no monitoring
6 data for Horizons, Inc. And NIOSH reviewed our
7 existing documents, our claimant files and
8 other things, and came pretty much to the same
9 conclusion, that there was very little, if any,
10 monitoring data for Horizons, Inc. So NIOSH
11 went through and completed our evaluation and
12 issued our evaluation report on March 14th,
13 2008.

14 Petitioner proposed a class of all employees
15 who worked at Horizons from January 1, 1944
16 through December 31, 1956, the operational
17 period, and all employees who worked in all
18 locations at Horizons, Inc. from January 1,
19 1957 through July 31st, 2006. This is -- which
20 is the residual period. This was the -- the
21 class -- or the covered period defined in the
22 DOE facility database.

23 NIOSH reviewed -- during NIOSH's evaluation,
24 NIOSH concluded that we would recommend a class
25 that would be all AWE employees who worked at

1 Horizons, Inc. for a number of work days
2 aggregating at least 250 days from January 1st,
3 1952 through December 31st, 1956.

4 We did evaluate -- we qualified the petition
5 and evaluated the time period -- the entire
6 time period identified by the petitioner.

7 A little background on Horizons. Horizons,
8 Inc. is located in Cleveland, Ohio. Facilities
9 -- actually the facilities are still in
10 Cleveland, Ohio. Although the DOE facility
11 database indicates the facility covered period
12 started in 1944, all documents we have indicate
13 that Horizons, Inc. was not licensed to work in
14 the state of Ohio until 1947, and AEC
15 activities did not start until 1949. We have -
16 - start -- AEC operations starting in 1949
17 through 1956, which was looking at the
18 feasibility producing ductile zirconium. That
19 -- in all -- review of all of our documentation
20 indicates that was a non-radiological activity.

21 In 1952 Horizons was contracted by the AEC to
22 determine the most economical method for the
23 production of thorium metal.

24 1953 to an unknown date -- I say unknown date,
25 but it stopped at the -- all the material, we

1 do know, was shipped back in -- and the --
2 toward the end of 1956 -- was research and
3 development work with uranium. They were
4 looking at some type of cladding work with
5 zirconium and uranium, and in addition they
6 also had drafted a proposal for -- using a
7 similar electrolytic process for production of
8 uranium that was also submitted to the AEC and
9 turned down.

10 In 1954 to 1958 they did research work with
11 radioactive silver to determine the surface
12 diffusion rate of silver on gold, and it
13 appears -- a license was obtained from the AEC
14 for this material, but it does not appear that
15 it was AEC-related work. At that time, to get
16 the -- to get that source material, you had to
17 subm-- request that from the Atomic Energy
18 Commission.

19 Our sources reviewed for information on
20 Horizons, Inc. -- looked at site profile
21 Technical Basis Documents, anything that --
22 which there is no site profile for Horizons.
23 We looked at other Technical Basis Documents.
24 We looked at Technical Information Bulletins.
25 We had an excellent interview with a former

1 worker who was the metallurgical engineer, and
2 we received a lot of good information from
3 them. Case -- we looked at case files in the
4 NIOSH database, we -- site research database,
5 and documentation affidavits provided by the
6 petitioner.

7 Did I bounce one? Okay.

8 Radiological exposures to employees were --
9 occurred from the operations I previously
10 identified. The principal exposure was from
11 the thorium metal production operations.
12 External exposures -- beta exposures from
13 thorium metal production, research work with
14 uranium and silver research activities; gamma
15 exposures from thorium operations and uranium
16 research. And based on the radioactive
17 materials present, there was no appreciable
18 source of neutron exposure.

19 Internal exposures -- thorium and thorium
20 progeny, including radium and thorium -- or
21 radium and thoron from the thorium production
22 operations; uranium from research activities,
23 and silver from research activities.

24 Availability of dosimetry data -- we have a
25 July, 1953 trip report that indicates that

1 Horizons management instituted wearing film
2 badges. However, we have no film badge data
3 located prior to May of 1954. Of the four
4 claimants that we have, three of those have
5 external dosimetry data. And our interview
6 that we conducted with the metallurgical
7 engineer did indicate when full-scale
8 production went into place he remembered film
9 badges were -- were used at that time.
10 Again, we have -- weekly dosimetry results
11 exist from May of 1954 through June of '55, and
12 monthly results from '55 through December of
13 '55 -- from October '55 through December of
14 '55.
15 We have no bioassay data, no urine sampling,
16 whole body counting have been located for the
17 time period.
18 Air sampling, we have a December -- early
19 December of 1954 HASL survey took place. It
20 was reported in a February 1955 HASL survey
21 report. We also have some general area air
22 sample data in September of 1955. We have air
23 samples -- four air samples for uranium that
24 are available in 1953.
25 Again, this is fairly consistent with our

1 interview that we conducted. The interview
2 with the engineer indicated that he did not
3 recall any in-place monitors for the facility -
4 - air monitors for the facility. He did
5 remember on occasion a person taking air
6 samplings, which is kind of consistent with
7 what we found.

8 As you've seen a couple of times today, our
9 process is a two-pronged test: Is it feasible
10 to reconstruct the dose for individual members
11 of the class. And then if it's -- if it's not
12 feasible, then is it likely that the health was
13 endangered for members of the class.

14 NIOSH found that the available monitoring
15 records, process description and source term
16 information are insufficient to complete dose
17 reconstruction for the proposed class of
18 employees. NIOSH currently lacks access to
19 sufficient monitoring, source term data and
20 process information to estimate the complete
21 internal dose to members of the class.

22 Again, I mentioned we could not reconstruct the
23 internal. It was focused on occupational
24 thorium and thorium progeny dose. We initially
25 looked at the 1954 air data, which was a very

1 detailed survey that was conducted by HASL in
2 1954. It identified in that report -- we
3 looked -- we looked at using that report, and
4 based on what we had thought was -- that
5 thorium production levels were probably around
6 the highest at that period, we thought that
7 would be good bounding data to reconstruct the
8 earlier years. However, after we went back and
9 we reviewed further documentation, and
10 recognizing that the scope of Horizons --
11 Horizons was contracted to look at the most
12 economical method for production of thorium
13 metal. If you look at some of the earlier
14 reports, they went through a number of
15 different iterations and design changes and --
16 during the pilot skill activities before they
17 went into production. We could not -- we did
18 not feel that that air data in 1954 really
19 could bound our results for those earlier
20 years.

21 So based on the little information concerning
22 the initial process, process changes and
23 process controls implemented during the
24 research and development activities, we
25 concluded that we could not use that data to

1 bound the earlier operational years.
2 We looked at using that '55 HASL report again
3 to bound the period from February 1955 to the
4 end of operations in '56. If you look at the
5 HASL report, it identifies a number of
6 recommendations for the contractor to reduce
7 air concentrations. At the time they were
8 exceeding the air concentration limits consider
9 -- in a -- a large percentage of the areas, and
10 they had identified a number of practices and a
11 number of controls to go into place to reduce
12 those concentrations. However, the only air
13 data we have post-- that February '55 is some
14 general air samples that were taken in
15 September of '56, and we also have
16 documentation that indicates that actual levels
17 of material on-site increased all the way to
18 June and July of 1955, up to 10,000 pounds of
19 material. So based on the data that we had, we
20 did not feel that we really had enough data to
21 -- to conclude that that '55 HASL data could
22 bound that one year of operations from '55 to
23 '56.
24 In addition -- in reviewing the process, the
25 electrolytic process and the temperatures

1 associated with that process, we noted that
2 there was a high likelihood that -- and the
3 release of radium, thor-- thoron and associated
4 progeny. The delay period between the
5 collection and the counting of HASL air data
6 and the associated short half-lives of the
7 radium and the thoron directly impact our
8 ability to reconstruct the dose. If you looked
9 at -- the samples were collected on December
10 3rd and 4th period. The first counting of the
11 samples was not until late December, roughly
12 27th time frame, and a number of them rolled
13 all the way into 34 days -- to count those
14 samples, so the short-lived activity would have
15 gone.

16 NIOSH believes that the internal and the
17 external exposures from the residual period can
18 be reconstructed using the data from the 1955
19 HASL report, and the 1977 FUSRAP report data,
20 to determine the upper and lower bounds,
21 respectively. Now I know you're thinking okay,
22 you said you couldn't use the 1955 report for
23 the operational period. But if you think what
24 we're doing here, we're taking that 1955 report
25 when we were in production and operations,

1 we're using air concentrations from that '55
2 report which clearly, during operations, would
3 have been much higher than the shutdown when --
4 when no longer -- when operations were no
5 longer occurring. So we take that 1955 air
6 data and we take the 1977 FUSRAP data, which
7 includes surface contamination and air
8 concentrations as well -- we take the surface
9 contaminations -- we -- we used resuspension
10 factors and we came up with an air
11 concentration in 1977. That air concentration
12 we came up with for 1977 using resuspension
13 factors was actually 1,000 times higher than
14 the air concentration that were in the report.
15 We used that data as our lower bound. We took
16 that and we used an exponential model to come
17 up with a -- exposures for the -- internal
18 exposures for the residual period.
19 The external exposures, we took the 1955 HASL
20 report using general area dose rates -- again,
21 when there's a significant amount of material
22 on site, we use those general area dose rates
23 as our upper bound. We contin-- we used a
24 straight-line approach from 1955 to 1977 for
25 exposures from that 1955 report, and then 1977

1 we took the dose rates from that 1977 FUSRAP
2 report out to 2006 for our later years for
3 external exposures. Again, this del-- this
4 methodology is actually detailed in our
5 evaluation report and -- can take a look at
6 that.

7 Health endangerment, we have -- we have
8 discovered no information for any operation or
9 activities at Horizons, Inc. site in Cleveland
10 prior to September 4th, 1947. We actually
11 contacted the Department of Energy --
12 Department of Energy and asked them for
13 documentation that they used to support their
14 covered facility. When we -- we received that
15 documentation and reviewed that documentation,
16 and again have no indication that there was any
17 work that occurred prior to September of 1947.
18 In addition we have license -- we have
19 information that supports that they were not
20 licensed to operate in the state of Ohio until
21 September 4th, 1947.

22 Therefore, at this time we have concluded that
23 there is no health endangerment for that 1944
24 to 1947 period because we have no indication of
25 any work ever occurring at that time.

1 In addition, we have discovered no information
2 for any radiological activities, or the
3 presence of radioactive material, at the
4 Horizons site prior to 1952. We know that they
5 were doing zirconium work and non-radioactive
6 work. They were looking at the production of
7 ductile zirconium. We have information on
8 that. But we have no indication of any
9 radioactive material being on-site prior to
10 1952. Now -- and so based on that, we're
11 identifying that there's no health endangerment
12 from 1947 to 1952.

13 Now we -- I want to point out, if -- if
14 evidence is found at a later date that there is
15 -- there was radiological operations that
16 occurred during that period, we can move
17 forward with an 83.14 to include that period in
18 our evaluation. But at this time we have
19 nothing to support that there would be any
20 health endangerment from that period.

21 Again, NIOSH determined that dose
22 reconstruction is not feasible from 1952 to
23 1956 at the Horizons, Inc., and that the health
24 of the employees covered may have been
25 endangered. The evidence reviewed indicates

1 that workers in the class received chronic
2 internal and external exposures from production
3 and research and development activities at
4 Horizons. And our recommended class is all AWE
5 employees who worked at Horizons, Inc. for a
6 number of work days aggregating at least 250
7 days from January 1, 1952 through December 31,
8 1956.

9 Our findings in summary, internal exposures
10 from thorium and thorium progeny cannot be
11 reconstructed during the operational period.
12 External exposures can. I actually didn't go
13 over this, but we have -- as I mentioned
14 earlier, we have external exposure -- we have
15 film badge monitoring data for a number of
16 years. In addition, we've taken that film
17 badge monitoring data and developed a coworker
18 model for -- that will be used in support of
19 partial dose reconstructions.

20 The residual period, we've indicated we can do
21 all dose reconstruction -- uranium, thorium,
22 thorium progeny, and both the -- all the
23 external exposure.

24 And again, our class is recommended '52 to '56,
25 and it's not -- we concluded that dose

1 reconstruction is not feasible and health was
2 endangered.

3 That's it.

4 **DR. ZIEMER:** Okay. Thank you very much. Could
5 you clarify the usage of the silver again?

6 **MR. RUTHERFORD:** Yeah.

7 **DR. ZIEMER:** I think it was 110 or 110M --

8 **MR. RUTHERFORD:** It was 110M.

9 **DR. ZIEMER:** -- it was the longer-lived one,
10 the 110M.

11 **MR. RUTHERFORD:** The 110M -- yeah, the 110
12 would have gone away.

13 **DR. ZIEMER:** And you -- I think I read in the
14 report that was outside of the --

15 **MR. RUTHERFORD:** It actually went -- you mean
16 the period?

17 **DR. ZIEMER:** Yeah.

18 **MR. RUTHERFORD:** It went actually till roughly
19 1958. However, our reports indicate that '56
20 to '57, all the material was shipped back and
21 they closed out the license in '58. The amount
22 of -- or actually 1956 the material was shipped
23 back and they closed the license out in '58.
24 Either way, the -- the residual period would
25 not really address that because it wasn't an

1 AEC-covered activity.

2 **DR. ZIEMER:** Yeah.

3 **MR. RUTHERFORD:** And even if it was an AEC-
4 covered activity, I think the half-life -- if I
5 remember correctly -- is 100 days. It's going
6 to be very -- very -- it's in the report, I
7 can't remember, but it's not a significantly
8 long half-life that it would be exposure
9 concern for more than a year or two.

10 **DR. ZIEMER:** 250 days --

11 **MR. RUTHERFORD:** Oh, okay.

12 **DR. ZIEMER:** -- is what you say in the report.

13 **MR. RUTHERFORD:** Yeah, three to four years.
14 Okay.

15 **DR. ZIEMER:** So -- yeah, well, 250 days is --
16 if you're talking about, you know, up to ten
17 half-life periods, that's --

18 **MR. RUTHERFORD:** That can be relatively
19 significant.

20 **DR. ZIEMER:** Okay, thank you. That clarifies
21 that.

22 Other questions? Josie.

23 **MS. BEACH:** I just want to make sure I'm clear.
24 During the residual period, '57 to 2006, did
25 you have any bioassay data at all?

1 **MR. RUTHERFORD:** No.

2 **MS. BEACH:** Okay. And then the lab, the HASL
3 lab --

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

5 **MS. BEACH:** -- where was that located?

6 **MR. RUTHERFORD:** Where was the survey located?

7 **MS. BEACH:** The Health and Safety Laboratory
8 that you're --

9 **DR. ZIEMER:** New York.

10 **MR. RUTHERFORD:** In New York.

11 **MS. BEACH:** New York?

12 **MR. RUTHERFORD:** New York Operations Office.

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

14 **MS. MUNN:** Manhattan.

15 **DR. ZIEMER:** Jim.

16 **DR. MELIUS:** Yeah, can you clarify some of this
17 confusion on the time period that this was in
18 operation?

19 **MR. RUTHERFORD:** Yes.

20 **DR. MELIUS:** I believe the petitioners went
21 back to 1944, seem to indicate that the
22 facility was in operation from '47, but only
23 became involved in this program in 1944, so --

24 **MR. RUTHERFORD:** Actually --

25 **DR. MELIUS:** -- excuse me, 1952.

1 **MR. RUTHERFORD:** Right. What -- actually what
2 we found -- again, and we are working with the
3 Department of Energy and the Department of
4 Labor on this issue. Right now, and from what
5 -- everything we've reviewed and all the
6 documentation we've reviewed, we have no
7 indication that the facility even existed until
8 1947. Okay? So we're working with -- again,
9 with Department of Energy and Labor on that.
10 In addition, all our documentation indicates
11 that there was no radiological activities or
12 radioactive material on site until 1952, you
13 know. And we've talked to -- we talked to this
14 -- the metallurgical engineer and we've, you
15 know, reviewed all this documentation. Our
16 existing claimant pool starts in 1952. We have
17 no one that works prior to that period, so no
18 one's affected by this at this time. In fact,
19 our existing claimant pool of four, all of them
20 worked during the operational period, so...

21 **DR. ZIEMER:** Let's hear from Glenn Abraham.
22 Glenn, are you still on the line?

23 **MR. ABRAHAM:** Yes, indeed, I am.

24 **DR. ZIEMER:** Please give us any comments you
25 may have.

1 on this if you so desire. Yes, Dr. Melius?

2 **DR. MELIUS:** Yeah, if -- concurrence of the
3 other Board members, I'd like to offer a long
4 motion -- again.

5 **DR. ZIEMER:** Very -- very briefly, though, is
6 your long motion a motion to recommend this
7 class?

8 **DR. MELIUS:** Class -- according to the NIOSH
9 definition of the class.

10 **DR. ZIEMER:** Please proceed.

11 **DR. MELIUS:** The Board recommends that the
12 following letter be transmitted to the
13 Secretary of Health and Human Services within
14 21 days. Should the chair become aware of any
15 issue that in his judgment would preclude the
16 transmittal of this letter within that time
17 period, the Board requests that he promptly
18 informs the Board of the delay and the reasons
19 for this delay, that he immediately works with
20 NIOSH to schedule an emergency meeting of the
21 Board to discuss this issue.

22 The Advisory Board on Radiation and Worker
23 Health, parentheses, the Board, close
24 parentheses, has evaluated SEC Petition 00094
25 concerning workers at the Horizons,

1 Incorporated facility in Cleveland, Ohio under
2 the statutory requirements established by
3 EEOICPA, incorporated into 42 CFR Section
4 83.13. The Board respectfully recommends
5 Special Exposure Cohort status be accorded to
6 all AWE employees who worked at the Horizons,
7 Incorporated facility in Cleveland, Ohio from
8 January 1st, 1952 through December 31st, 1956
9 for a number of work days aggregating at least
10 250 work days occurring either solely under
11 this employment or in combination with work
12 days within the parameters established for one
13 or more other classes of employees in the SEC.
14 The Board notes that although NIOSH found that
15 they were unable to completely reconstruct
16 radiation doses for these employees for January
17 1st, 1952 through December 31st, 1956, they
18 believe that they are able to reconstruct the
19 external radiation doses and the occupational
20 medical dose during the time period in
21 question. NIOSH also believes that they can
22 reconstruct individual doses during the
23 residual period, parentheses, January 1st, 1957
24 to July 31st, 2006, close parentheses.
25 This recommendation is based on the following

1 factors: Horizons, Incorporated facilities
2 involved early research and development work
3 for the manufacture of atomic weapons. NIOSH
4 was unable to locate sufficient monitoring data
5 or information on radiological operations at
6 these -- at this facility in order to be able
7 to complete accurate individual dose
8 reconstructions involving internal exposures to
9 thorium and thorium progeny for the time period
10 from January 1st, 1952 through December 31st,
11 1956. The Board concurs with this conclusion.
12 NIOSH determined that health may have been
13 endangered for the workers exposed to radiation
14 at the Horizons, Incorporated facility in
15 Cleveland, Ohio during the time period in
16 question. The Board also concurs with this
17 determination.

18 Enclosed is supporting documentation from the
19 recent Advisory Board meeting held in Tampa,
20 Florida where the Special Exposure Cohort was
21 discussed. If any of these items are
22 unavailable at this time, they will follow
23 shortly.

24 **DR. ZIEMER:** Okay, you've heard the motion,
25 which the Chair is going to modify with a

1 friendly word. The last sentence has to have
2 the word "class" in it.

3 **DR. MELIUS:** Yes.

4 **DR. ZIEMER:** Which will be added. This is not
5 a Special Exposure Cohort, it's a Special
6 Exposure --

7 **DR. MELIUS:** Class.

8 **DR. ZIEMER:** -- Cohort class. But that's the
9 motion. All -- a second, we need a second.

10 **MR. GIBSON:** I'll second.

11 **DR. ZIEMER:** Discussion? Any discussion?

12 (No responses)

13 Are you ready then to vote on this motion?

14 **MS. BEACH:** I just have a quick clarification.
15 Was that for internal and the external, or are
16 we excluding external?

17 **DR. MELIUS:** Which? The --

18 **DR. ZIEMER:** If you look at --

19 **DR. MELIUS:** -- the basis for the lack of
20 feasibility is the internal. They --

21 **MS. BEACH:** Right.

22 **DR. MELIUS:** -- they're able to do external and
23 occupational, so that so states that.

24 **MS. BEACH:** Thank you.

25 **DR. MELIUS:** And then for the -- it's a little

1 confusing 'cause for the residual period it's -
2 - they can do everything.

3 **MS. BEACH:** Right. Just wanted to make sure.

4 **DR. MELIUS:** Yeah.

5 **DR. ZIEMER:** But again, the effect of that is
6 for the -- the non-specified cancers, they can
7 go in for partial dose reconstructions if -- if
8 they wish.

9 **MS. BEACH:** Right. Got it.

10 **DR. ZIEMER:** Okay.

11 **MR. GRIFFON:** The effect also is denying the
12 residual period. I think people are straight
13 with that. Right? That we're accepting
14 NIOSH's recommendation on the residual period.

15 **MR. RUTHERFORD:** Correct.

16 **MR. GRIFFON:** And the -- I mean the only
17 question I would have is the -- I haven't had a
18 chance, I don't know if other Board members are
19 comfortable -- this looks like a slightly
20 different approach handling the residual period
21 where you're using data that was sort of -- and
22 LaVon mentioned this, data sort of that was
23 rejected for the use during the operational
24 period to bound in between the 1977 cleanup
25 data and extrapolate internal doses from that.

1 It's a -- it's a new model on me, anyway. I
2 don't know that we've seen that before.

3 **MR. RUTHERFORD:** I don't think the model's new.
4 The exponential model is what we've used in --
5 in other residual periods. The -- I think I --
6 I said the reason why we excluded the -- I
7 explained why we excluded the -- that '54 -- or
8 '55 HASL survey for the operational period, but
9 I also provided why it would be bounding for
10 the oper-- or for the residual period.

11 **MR. GRIFFON:** Okay.

12 **DR. NETON:** I think I might clarify a little
13 bit -- this is Jim Neton. I'm pretty sure
14 LaVon said that the air samples that we had
15 were general area air samples --

16 **MR. RUTHERFORD:** Yes.

17 **DR. NETON:** -- is that correct? And we've
18 never really been -- it's never been our
19 practice to use general area air samples to
20 reconstruct internal dose during the period
21 when the activities were occurring. But we
22 certainly have used general area air samples to
23 bound non-process-related activities. And that
24 would be the intent. The non-process activity
25 related to the general air sample we feel very

1 confident bounds the -- the -- any air that
2 would be -- any air that would be generated in
3 the residual period, if you can follow that
4 logic.

5 **MR. GRIFFON:** Yeah, yeah. And -- and there are
6 other sites that we've looked at where we've
7 extrapolated between data? I know you back-
8 extrapolated --

9 **DR. NETON:** Well, it's the subject of a TIB
10 that's out there. We have a -- TIB-71?

11 **MR. RUTHERFORD:** TIB-70.

12 **DR. NETON:** -- TIB-70 just came out that --

13 **MR. GRIFFON:** Okay.

14 **DR. NETON:** -- goes over these residual models
15 and it's -- it's been reviewed and approved for
16 use internally. I would say that --

17 **MR. GRIFFON:** I'm -- I'm not familiar with that
18 one, but yeah, okay.

19 **DR. NETON:** We did use general area air samples
20 at Simonds Saw and Steel, if you remember, to
21 reconstruct the residual activity at Bethlehem
22 Steel. That was the basis for coming up with
23 the resuspension in the air at Bethlehem Steel.

24 **MR. GRIFFON:** And at -- at Chapman Valve -- I'm
25 just going through a lot of these sites 'cause

1 I think we have equity issues, too, on how we
2 treat these -- at Chapman Valve how did we
3 handle the residual period -- or -- or did we
4 leave that on hold for now? I'm not sure where
5 that stands.

6 **DR. NETON:** You know, you caught me here, Mark.
7 I can't remember what we did at Chapman Valve
8 right now.

9 **DR. MELIUS:** The -- the -- the -- there's one
10 site you had a question on, Mark, and I can't
11 remember which one it is, whether it's Chapman
12 or one of the others, and actually -- actually
13 when I first saw this I thought it was an 83.14
14 so I spent a fair amount of time going through
15 it. In fact I even corresponded with LaVon a
16 little bit about that -- about the residual
17 dose issue, and I think this is different in
18 the way they did it, and I was satisfied. But
19 you should take a look and see if you think --

20 **MR. GRIFFON:** Yeah.

21 **DR. NETON:** Seems to me we did address the
22 residual contamination at Chapman Valve up
23 through I think before the DOE took over. The
24 DOE operation is covered, but I don't exactly
25 remember the model for that.

1 **DR. ZIEMER:** This action --

2 **MR. GRIFFON:** I mean I looked quickly at it,
3 and it looks reasonable. I just haven't looked
4 at it in depth, and I was also looking -- from
5 a consistency standpoint I was concerned that -
6 - you know.

7 **DR. ZIEMER:** This action today, however, would
8 not preclude some other action later if -- if
9 something arose.

10 **MR. GRIFFON:** Well, I don't know if we can
11 reopen that --

12 **DR. NETON:** I would suggest, though, that -- I
13 think that we can bound this -- this residual
14 activity. Now whether the model is deemed to
15 be totally accurate is the subject -- could be
16 the subject of some review and -- and
17 deliberation. I mean if that was the Board's
18 desire. But I don't know --

19 **MR. GRIFFON:** Well, I think the question would
20 be is the model a bound-- you know, is the --
21 is the model bounding, I think would be the
22 question at hand.

23 **DR. NETON:** Well, the question -- can we bound
24 residual contamination period with some model.

25 **MR. GRIFFON:** Right.

1 **DR. NETON:** And we proposed one, and whether
2 it's totally accurate in the Board's opinion I
3 guess could be reviewed outside --

4 **MR. GRIFFON:** Oh, I see what you're saying.

5 **DR. NETON:** -- the scope of the SEC --

6 **MR. GRIFFON:** It's like a site profile sort of
7 --

8 **DR. NETON:** Correct, exactly.

9 **MR. GRIFFON:** -- issue, right -- okay. Yeah.

10 **DR. MELIUS:** Yeah, I -- I'd just add that the
11 1955 area monitoring data that they're using is
12 from a time period when the facility was
13 operational, so it's not necessarily at its
14 peak of operation, which continued into the
15 next year, so it's a sort of a -- it's sort of
16 a unique set -- dataset in some ways. And so I
17 think it -- their argument would be that it --
18 it is high, then they're using 95th percentile
19 on that, so that follows through.

20 I also would add that our -- our usual way of
21 expressing this is only stating it. We aren't
22 really saying we fully concur with that
23 particular finding, because we're not really --
24 we haven't really evaluated the full, you know,
25 dose reconstruction method any more than we've

1 really, you know, evaluated the full -- their
2 ability to use external dose during the -- the
3 time period, so...

4 **MR. GRIFFON:** And I think Jim's right, it's
5 more the -- the thing for us to look at is is
6 the information there.

7 **DR. MELIUS:** Yeah.

8 **MR. GRIFFON:** If we agree with that particular
9 TIB's approach, we always have options to go
10 back and review that, but right now we're
11 looking and it looks like the pieces are there.
12 How they exactly modeled that can be -- can be
13 commented on later -- yeah, I guess -- yeah.

14 **DR. ZIEMER:** Okay. Additional comments? Are
15 you ready then to vote on this? Okay, we'll
16 vote -- take a poll vote.

17 **DR. BRANCHE:** Josie Beach?

18 **MS. BEACH:** Yes.

19 **DR. BRANCHE:** Brad Clawson?

20 **MR. CLAWSON:** Yes.

21 **DR. BRANCHE:** Michael Gibson?

22 **MR. GIBSON:** Yes.

23 **DR. BRANCHE:** Mark Griffon?

24 **MR. GRIFFON:** Yes.

25 **DR. BRANCHE:** Dr. Melius?

1 **DR. MELIUS:** Yes.

2 **MR. GRIFFON:** With reservations -- no.

3 **DR. BRANCHE:** Wanda Munn?

4 **MS. MUNN:** Yes.

5 **DR. BRANCHE:** Robert Presley?

6 **MR. PRESLEY:** Yes.

7 **DR. BRANCHE:** Gen Roessler?

8 **DR. ROESSLER:** Yes.

9 **DR. BRANCHE:** Phillip Schofield?

10 **MR. SCHOFIELD:** Yes.

11 **DR. BRANCHE:** Paul Ziemer?

12 **DR. ZIEMER:** Yes.

13 **DR. BRANCHE:** We have to get John Poston's vote

14 later.

15 **DR. ZIEMER:** You have to get John's later, but

16 the motion does carry, nonetheless, and we will

17 --

18 **DR. MELIUS:** And Lockey's.

19 **DR. ZIEMER:** And Dr. Lockey's as well, and we

20 will then prepare a recommendation to the

21 Secretary in accordance with that vote.

22 We'll go ahead and take our break now before we

23 start the next subject. Let's take a 15-minute

24 break.

25 (Whereupon, a recess was taken from 2:45 p.m.)

1 to 3:10 p.m.)

2 **DR. ZIEMER:** Are the phones...

3 **DR. BRANCHE:** Could you unmute the phone now,
4 please?

5 **MR. PRESLEY:** Paul, I'm on.

6 **DR. ZIEMER:** Thank you. I hear you, Bob. I
7 will call the meeting back to order.

8 **NIOSH QUALITY ASSURANCE AND QUALITY CONTROL**

9 Our next item of business is the report from
10 NIOSH on quality assurance and quality control,
11 and back at the mike is Larry Elliott.

12 **MR. ELLIOTT:** Thank you, Dr. Ziemer, and I
13 certainly appreciate that this subject was
14 placed on the agenda at this point today. Had
15 it been placed -- you know, it's such an
16 exhilarating piece to present that if it was
17 given after the lunch break I probably would
18 have numerous people sleeping in the audience.
19 But at any rate, I am pleased to make this
20 presentation to the Board on the quality
21 assurance and quality control procedures that
22 are utilized in our program at NIOSH. I have
23 presented to the Board on a number of occasions
24 about various aspects of QA and QC that we do
25 at NIOSH in the Office of Compensation Analysis

1 and Support. I mentioned some of these on
2 October 2005 at your Board meeting, again in
3 June 2006, December 2006 and again in January
4 2008, so let it not be said that we haven't
5 talked about QA/QC before, but never in this
6 breadth or depth that I'm about to take you to
7 today.

8 I think that this presentation needs to start
9 from the perspective that NIOSH has processed
10 over 27,000 claims, which requires us to have
11 communication directly with -- with tens of
12 thousands of individuals relevant to those --
13 handling those claims. We have completed
14 numerous SEC evaluation reports and have
15 produced numerous technical documents over the
16 last seven years.

17 With any program of this size there's going to
18 be human error. And given that truth, I think
19 and I believe that the goals of a strong QA/QC
20 program are three-fold. One, that they -- the
21 program limits the amount of human error to the
22 least amount possible; two, that we learn from
23 our mistakes and that -- that are made and we
24 try to prevent future mistakes; and three, that
25 our QA/QC program that is -- that in our QA/QC

1 program we are constantly evaluating what can
2 be done to improve the program.

3 I believe that -- I hope that as I get to the
4 end of this presentation you will see that
5 those goals are inherent in our program, and
6 are reflected in the various areas that I'm
7 about to speak on today.

8 Quality assurance and quality control is
9 incorporated in all aspects of the program at
10 NIOSH, in our dose reconstruction process --
11 I'll talk about this at length, I have a number
12 of slides that I'll go into for you. In the
13 development of our technical basis approaches
14 and documents, site profiles, et cetera -- I'll
15 also speak about QA/QC that is done in that
16 regard. We also have quality assurance and
17 quality control components involved in our
18 Special Exposure Cohort petitioning process,
19 and I'll speak on some of those.

20 There's another aspect in our QA/QC program,
21 and that is called program oversight. I have a
22 contractor oversight team that monitors our
23 contractors that we also do self-assessments
24 within OCAS as well, so I'll speak to that.

25 And finally what's not on this slide is -- the

1 one last bullet that should be there, the
2 Advisory Board's review process and how we
3 incorporate what we've learned from that, and
4 I'll speak about that in the last set of
5 slides.

6 With that said, our quality assurance/quality
7 control program has evolved over the course of
8 these seven years as the needs and the
9 complexity of the processes were more fully
10 understood and developed.

11 To start with, we have to have an overarching
12 goal, and here's our overarching goal. I first
13 presented this to you in 2006, I believe, in
14 June at the Washington, D.C. meeting. And this
15 overarching goal at NIOSH for our quality
16 assurance/quality control process is to ensure
17 that each dose reconstruction or SEC evaluation
18 is of sufficient quality to yield a correct
19 Department of Labor recommended decision on
20 compensability.

21 I'm not going to get into a great deal of depth
22 on each one of these topic areas -- dose
23 reconstruction, technical basis document,
24 contract oversight -- but I am going to give
25 you in that the breadth of what we call QA/QC

1 control, quality control measures.

2 In our dose reconstruction process there are
3 seven steps that I'll go through here for you
4 and speak about how we do our quality control
5 checks and where our quality assurance comes
6 into play.

7 The workgroup on procedures has reviewed, or is
8 currently reviewing, a number of procedures
9 that are related to dose reconstructions as
10 they are moving through this seven-step
11 process, and certainly we could go back and
12 visit those types of procedures that that
13 working group has examined or is involved in
14 examining.

15 In step one, the -- of the dose reconstruction
16 claim process, all required data that we
17 receive from the Department of Labor in a claim
18 packet is entered into our NIOSH/OCAS Claims
19 Tracking System. You've heard us call this
20 NOCTS. Well, that's the acronym, NIOSH/OCAS
21 Claims Tracking System. And this is done in a
22 couple of ways. All of the paper information
23 that is submitted by a claimant and all of the
24 development of the eligibility for that claim
25 that DOL does is documented and, in paper form,

1 sent to NIOSH. We scan all of that paper into
2 a claim file and enter that claim file, in
3 electronic version, into our NOCTS database
4 system.

5 There are also some information that is
6 electronically keyed into that NOCTS database
7 system -- the Social Security number, the date
8 of birth, the name, the address, the contact
9 information -- a variety of things have to be
10 keyed in, based upon what we see in the hard
11 copy information that comes from Department of
12 Labor.

13 We run an electronic verification on that
14 information that's keyed into the database.
15 This is done every night, and here you see on
16 this slide some of those variables that are
17 examined under this electronic check that's
18 done every evening. So Social Security number
19 is entered, does it already exist elsewhere in
20 the NOCTS database system. If it does, we've
21 got a problem. We've got two people with the
22 same Social number, or we've got a wrong Social
23 number on one of these two claims, perhaps. So
24 that spits out a report for my public health
25 advisors to go examine the issue and follow up

1 with either the claimant or with -- and/or DOL.
2 For skin cancer claims, of course, the
3 ethnicity is a requirement that we ask the
4 Department of Labor to provide us information
5 on from the claimant, and that has to be there
6 for all skin cancers, and so we do an
7 electronic check of that as well.
8 Additionally, smoking history is a requirement
9 for us to reconstruct dose for any lung cancer-
10 related claims, so we have a check on that.
11 And then this, are all reasonable and what --
12 and what the -- makes sense as far as the way
13 they've been electronically entered into the
14 database system. So in other words, the date
15 of death is not prior to the diagnosis date.
16 That would spit out an error report and we'd
17 follow up on that discrepancy.
18 As I mentioned, discrepancies are evaluated and
19 resolved internally, or they may be referred to
20 DOL for additional development and resolution.
21 Our public health advisors review all hard copy
22 files that are in a particular claim, and they
23 compare the data that's been entered into NOCTS
24 for the Energy employee's name and -- or the
25 survivor contact information, the type of

1 cancer, the date it was diagnosed, and making
2 sure that the ICD-9 code that is associated
3 with that cancer makes sense.

4 There are several forms, other documents, that
5 are relevant to employment history that are
6 also examined by the public health advisor to
7 make sure that the quality is up to snuff in
8 order for the claim to move through the system.
9 The quality control checklist has been
10 generated for every case, and a final
11 electronic verification is completed once that
12 case achieves full completion and is returned
13 to Department of Labor -- and I'll speak a
14 little more about that in a later slide.
15 We're still -- we're at step two now, and the
16 re-- there's a need to go to Department of
17 Energy and request DOE-related information
18 relevant to the claim. And so once that
19 information is returned to us, it comes in to
20 our contractor or it comes in to us, our
21 contractor reviews all of those data and
22 documents that DOE has supplied us regarding
23 the exposure for that claim. And again, the
24 information associated with the Energy
25 employee, the correct data for that Energy

1 employee and the -- whether the documents that
2 we receive from DOE are legible or not -- are
3 examined, the completeness, whether there are
4 scanning errors that occurred during the
5 uploading and scanning of the information to
6 the electronic database are also performed.
7 There are additional data and/or clarifications
8 that may be requested from DOE. And if that is
9 needed, we track those. We document that we
10 made the request and we track the response or
11 lack of response to that particular request.
12 That has to be done so that we can make sure
13 that when we have a final request fulfilled
14 from the Department of Energy, we can move the
15 claim into the dose reconstruction process.
16 Until that point, we cannot do so.
17 In the -- make sure I didn't skip a slide here.
18 Step three, we seek the claimant's willingness
19 to cooperate in an interview regarding the
20 claim. This interview -- as you know, we have
21 a set of questions that are asked of an Energy
22 employee and a set of questions that are asked
23 of a survivor for a claim. The interviews are
24 scheduled. They are then completed. But
25 that's not the end of the trail for interviews.

1 The discussions are documented and the claimant
2 is asked to review and comment and edit that
3 report of the Computer-Assisted Telephone
4 Interview. They can correct any information
5 they feel has been added in error or any errors
6 made to the report, or they can also provide
7 information that they forgot to give us or
8 didn't realize that -- that we needed until
9 they had had a chance to review this report.
10 In step four of the processing of dose
11 reconstructions, prior to completing a dose
12 reconstruction all of the ORAU health
13 physicists who are deemed dose reconstructors
14 are required to participate in formal classroom
15 training. There is a documentation that this
16 occurs and this is a -- there is a trackable
17 record here of who got what training when. And
18 when site profiles or Technical Basis Documents
19 or a technical approach changes for a given
20 site or a given exposure scenario, then there
21 is a retraining session to elucidate those dose
22 reconstructors who would need that level of
23 training.
24 All DRs, dose reconstructions, are completed
25 using approved implementation guides, Technical

1 Basis Documents and Technical Information
2 Bulletins. And so you ask me how is that a
3 quality control check. Those are the only ones
4 that can be used by the dose reconstructor, and
5 they have to be referenced in the report. So
6 if they're working with some document that has
7 not been final-approved for use in dose
8 reconstruction, they will not be allowed to
9 advance that report. They will be told by a
10 reviewer that they need to use only approved
11 documentation.

12 Continuing in step four, once a dose
13 reconstructor has completed a draft of a dose
14 reconstruction, there is an initial quality
15 control review that's performed by a non-health
16 physicist. This person is not looking at the
17 technical basis of the approach used in
18 reconstructing dose, but they are looking at
19 has everything been spelled correctly in the
20 claimant's name and address, and do we have the
21 employment history right, do we have the cancer
22 designations captured correctly in this report.
23 All of the demographic information associated
24 with the claim is checked by this individual.
25 They're also asked to look at the IREP

1 spreadsheet and make sure that it is full in
2 its content and that it is consistent with the
3 dose reconstruction that it is accompanying.
4 Still in step four, once the draft has been
5 drafted and prepared by a dose reconstructor,
6 it is then sent to a senior health physicist
7 for review -- peer review. This review is
8 looking at the consistency, the accuracy and
9 the appropriateness of the demographic and the
10 dosimetry information in NOCTS. The IREP and
11 the input summary files are examined and the DR
12 inclusion of the information gained during the
13 CATI. So in other words, did the individual in
14 the Computer-Assisted Telephone Interview
15 identify that they were involved in an
16 incident; and if so, has that incident been
17 captured in the dose reconstruction report; and
18 if so, do we have documentation of the incident
19 or are we basing it on the interview itself.
20 So those issues are examined in this process.
21 Any issues that are identified by a peer
22 reviewer are communicated to the drafting HP,
23 health physicist, and are resolved to the
24 satisfaction of the peer reviewer. This is
25 captured in a documentation file that goes

1 between the author and the peer reviewers so
2 that documentation exists and is available to
3 other reviewers.

4 Continuing along in step four, there's a
5 technical editing step that's completed to
6 verify that the format of the report is
7 appropriate to our standards, that all spelling
8 and grammar are accurate and appropriate.

9 There's a final quality control check
10 performed, and the draft dose reconstruction is
11 then sent to my offices for folks in my office
12 to take a peer review of -- of the document.

13 There in OCAS each draft is reviewed and
14 evaluated to ensure that the approach is
15 technically valid, the DR is completed
16 according to all of the approved applied
17 procedures, and that the IREP input files
18 produced the same results as the IREP summaries
19 that were provided in the report.

20 I think this is the last slide on step four --
21 I hope -- but again, it goes to show you the
22 degree -- one more -- the degree that we go
23 through in developing these drafts.

24 For drafts that are not approved and those that
25 are returned to ORAU, there are written

1 comments describing the deficiencies that the
2 reviewer and OCAS identified. And those draft
3 DRs are -- when they are approved by an OCAS
4 health physicist in peer review, they receive
5 at OCAS an additional technical review to
6 ensure that the general approach is sound
7 again, and no obvious errors exist. So there's
8 a second level of -- this is actually the third
9 level of technical peer review a document would
10 get, one at ORAU and two within our own staff
11 at OCAS.

12 The approved dose reconstructions are then
13 printed and sent to claimants with an OCAS-1
14 form. In that regard, every draft is reviewed
15 again by a public health advisor to ensure that
16 the tracking number is consistent on each page
17 of the document, all pages are accounted for,
18 an OCAS HP, or health physicist, approval
19 signature is present, and the Energy employee
20 name and Social Security number are correct,
21 and it is being placed in the right envelope.
22 We do a number of these in a day, and so these
23 are hand-checked now to make sure the right
24 report goes in the right envelope.

25 In conjunction with the multiple levels of

1 review that I mentioned, each individual dose
2 reconstruction, there is a five percent review
3 of all draft dose reconstructions. And this
4 five percent is randomly selected. We have a
5 checklist of 18 individual items, with the
6 opportunity for whoever's doing the review to
7 add items to that checklist. So a five percent
8 is pulled and folks are assigned within OCAS to
9 do these after-the-fact evaluation reviews
10 using this 18-item checklist. These checklists
11 are -- serve as formal documentation. The
12 checklists are reviewed on a quarterly basis
13 and trends are evaluated, and the information
14 or direction is sent to our contractor for any
15 improvements that we might see.

16 Here I've shared with you a graphic -- and this
17 may take a little bit of explanation. This
18 graphic speaks about this five percent review
19 that is done after a draft dose reconstruction
20 report has already made it through these other
21 peer reviews and is sent to -- to the claimant.
22 And when we started this back in the first
23 quarter of '05, we were seeing about an 80
24 percent acceptance rate. In other words, 20
25 percent was found -- something was wrong and we

1 would send it back to ORAU for revision. And
2 I've added here a trend line that shows you
3 that we're increas-- it's going in the right
4 direction. We want to see this line get up to
5 100 percent. We'd be happy not to be able to
6 send anything back to ORAU, but at least this
7 is going in the right direction.

8 This blip that we see here we equate to a
9 series of wording changes that we employed in
10 our dose reconstruction report about this time
11 frame in first quarter of '07. And rather than
12 make these wording changes ourself, we've asked
13 our contractor to do that and so when we did
14 our five percent evaluation review, we saw some
15 and we kicked them back for those wording
16 changes.

17 In step five of the dose reconstruction process
18 we conduct a closeout interview. And this is
19 an opportunity once again for the claimant to
20 hear from us about how their dose
21 reconstruction was conducted, and an
22 opportunity for them to ask questions, an
23 opportunity for them to gain a better
24 understanding of what our work really means to
25 them. The claimant receives this draft dose

1 reconstruction report, a closeout interview is
2 scheduled, and the claimants have an
3 opportunity to make at that time any comments
4 or corrections they wish to provide us about
5 the dose reconstruction report.
6 Those issues that are raised during this
7 closeout interview process which we believe
8 could affect the results of dose reconstruction
9 are documented and sent to a health physicist
10 for further review. And if needed, those are
11 then incorporated into the dose reconstruction
12 and a new draft is sent to the claimant.
13 In step six of the dose reconstruction process
14 we finalize the dose reconstruction report.
15 The claimant provides us OCAS-1 indicating they
16 have no further information to provide and are
17 accepting our sending this report on to the
18 Department of Labor for a decision. Our public
19 health advisor will confirm by visual
20 inspection that the signature is the claimant's
21 and that the form is uploaded into the correct
22 file. A final dose reconstruction report is
23 then sent to the claimant, and for every dose
24 reconstruction report sent out, it's reviewed
25 again by a public health advisor to ensure that

1 the tracking number that we've assigned the
2 claim is consistent on each page, all pages are
3 accounted for, and the Energy employee name and
4 Social Security number are correct.

5 In our last step of the dose reconstruction
6 process, step seven, where we send the claim
7 back to DOL, again a public health advisor will
8 look at each of these individual claims and the
9 dose reconstruction reports and all of the
10 information that's associated with that claim,
11 and conduct a quality control check on all of
12 the electronic documents in the database. Our
13 database for a claim has what we call a set of
14 four folders, I believe. They're so labeled A,
15 B, C and D, but they contain different things.
16 One folder has the DOE information, one folder
17 has correspondence, one folder has all of the
18 DOL-submitted information. And so they're
19 going to look and make sure that things are
20 properly filed within the electronic file for
21 the claim in the appropriate folder.

22 They're going to verify that all of the
23 required documents -- which is different than
24 what I just said -- all the required documents
25 are in this file that we return to the

1 Department of Labor. And so they're looking
2 for the dose reconstruction report and all of
3 the submitted information from the claimant.
4 There's a -- there's a phone log that's also
5 included in this, so they also look to make
6 sure that that information, our communications
7 with the claimants, is included in the
8 information we return to DOL as the analysis
9 record, and that's provided to DOL on a compact
10 disk.

11 Did I jump or not? Let me...

12 At the end of that dose reconstruction process,
13 once we have finalized the dose reconstruction
14 report and are prepared to send the analysis
15 record back to DOL with the report, we again
16 run -- this is a nightly check, and it checks
17 55 different parameters, and there are sub-
18 parameters under some of those 55. And I have
19 not provided you a list of those 55, but we can
20 get you that list if you're so interested. But
21 this is an electronic verification that's done
22 every night, and this is the record of that
23 where we show the percent error observed.
24 And so what does that mean? That means that
25 the percent here is the total errors observed

1 per month -- this is based upon a month -- so
2 each month we're looking at the total errors
3 per month, divided by the total data changes
4 that are -- were -- took -- took place in that
5 month. So let me step back a moment and make
6 sure everybody -- I didn't lose anybody.
7 Every case that has a change in the file for a
8 claim, any new claim that is added that day,
9 would go through this verification
10 electronically each night, and then we'll sum
11 up those changes and we'll sum up those errors,
12 and this is what you get. What we see here, we
13 have -- the black line indicates a trend, which
14 is in the right direction in this graph, we
15 want to see this go down, and also I would
16 point out that these are the percentages and
17 you've seen how that line goes there. And this
18 shows that we are -- there's good news here in
19 that this is very, very low. There's one --
20 less than 16/100 of a percent from this effort
21 to verify electronically that the data has been
22 captured accurately in our claim file system.
23 Now we move on to -- that's dose reconstruction
24 process. Again, I can go into much greater
25 detail on any one of these program areas if you

1 so desire.

2 But in the development of Technical Basis

3 Documents or technical approaches, all

4 technical documents must undergo a multi-

5 faceted review. Each document development is

6 completed in accordance with the NIOSH conflict

7 or bias policy. The technical documents that

8 are drafted by our contractor follow this

9 scheme that I'm about to outline for you, but

10 also those Technical Basis Documents that are

11 created and crafted -- drafted by a NIOSH

12 technical person would go through a similar

13 process. So if ORAU drafts a technical

14 document, they're going to submit it to us once

15 they have completed an internal peer review on

16 that document. Their comments are resolved

17 between that subject-matter expert who reviewed

18 the document or crafted the document, the

19 document owner, and the commenter. Those

20 comments and resolutions are all documented at

21 ORAU. And then the document, once it's been

22 agreed to by those individuals, is forwarded to

23 OCAS for a review.

24 OCAS reviews and comments on the document. Our

25 OCAS review is chosen based on his or her

1 expertise -- and again, without conflict or
2 bias in regard to -- let me make sure I'm
3 correct in that. They could be conflicted, but
4 they would be -- also others involved in the
5 review. If there's a subject-matter expert
6 that we want to hear on, we can listen to them.
7 The comments are then documented and forwarded
8 to ORAU for resolution. Those comments are
9 reviewed, and they're resolved between the
10 document owner and the commenter. The document
11 is then approved by ORAU and sent to OCAS for
12 final approval authority.

13 This is another area, this Special Exposure
14 Cohort process area. An SEC petition is
15 received and personal information is reviewed
16 against our NIOSH/OCAS Claims Tracking System.
17 If the petitioner is a claimant in NOCTS, then
18 demographic information is verified for
19 consistency for that petitioner. If the
20 petitioner is not a claimant in NOCTS, the
21 employee records are requested from the
22 Department of Labor to verify employment and
23 verify survivor information.

24 There's a daily review of every new document
25 uploaded into the Special Exposure Cohort

1 database, and that review is to ensure that
2 each document is labeled appropriately and
3 correctly, all documents are legible -- they're
4 readable, documents that have been uploaded to
5 the correct and proper petition -- as you might
6 imagine, we're getting a number of these in and
7 some of the volume on these are quite large and
8 so we want to make sure that we get the
9 information placed in the proper petition --
10 and that the correspondence has a correct name,
11 address, petition number and its document type
12 associated with it.

13 In the Special Exposure Cohort process on a
14 weekly basis all active petitions are verified
15 to determine if the petition status is correct.
16 The SEC petition summary report is uploaded and
17 verified. A query is run against the NOCTS
18 database system to update the number of claims
19 that have been returned to Department of Labor
20 for each petition that has been added to the
21 Special Exposure Cohort.

22 Lastly in the SEC process, an audit table
23 exists that tracks every change that has been
24 made to the SEC database. The ORAU folks
25 periodically review documents to cert-- and

1 ascertain the petition status and the petition
2 demographic information is correct, and submits
3 a quality control report to OCAS in that
4 regard. The quality control report is used to
5 locate problems such as duplicate documents,
6 missing files and unexpected file extension
7 formats.

8 Now we'll move into the program oversight
9 business. This is where we or our contractors
10 perform assessments or surveillance activities
11 on our procedures and on our program areas. We
12 have internal and external assessments. They
13 are performed according to a written procedure.
14 The procedure outlines the details on how the
15 assessment is to be performed and documented as
16 well. The procedure on conducting assessments
17 has been reviewed by SC&A, although we have not
18 responded to SC&A's comments at this time.
19 Also within the oversight process, I'll note
20 for you that there have been 29 assessments
21 that have been completed by NIOSH. And you
22 have a handout associated with this
23 presentation -- I believe it's also in the back
24 table as a handout for the presentation.
25 You'll see in that handout, the first series of

1 pages shows 30 OCAS assessments being listed.
2 One of those is not fully complete, and by that
3 I mean we have not followed up and made sure
4 all of the corrective actions have been taken.
5 But 29 have been completed.
6 Many of those assessments have resulted in
7 findings that require changes in OCAS and/or
8 ORAU programs. The findings that have been
9 identified require formal documentation and
10 corrective action plans be put together. We at
11 OCAS must approve the corrective action plans
12 and schedule the completion dates for those
13 efforts. After a corrective action is
14 implemented, OCAS evaluates the actions to
15 determine if they are complete and effective.
16 In those -- that handout, we also give you a
17 series of examples. I think there are 13 or so
18 examples of -- of reviews where changes have
19 been made.
20 Process improvements that have resulted in
21 Advisory Board review -- this is another
22 factor, the bullet that I asked you to add to
23 that first slide. I wanted to speak a little
24 bit about what goes on here with regard to our
25 listening to the Board and taking action when

1 we feel it appropriate to the best advantage of
2 the claimants.

3 So from your Board review of dose
4 reconstructions reports we have documented that
5 dosimeter badge readings where a value was
6 reported that is less than detectable level
7 divided by two, we are now treating that as
8 zero in the missed dose portion of the dose
9 reconstruction report. Previously these values
10 were included as reported in the measured dose
11 portion of the DR, and nothing was included for
12 the cycle of the missed dose portion in the DR.
13 This comes out of the Board review.

14 Another item that resulted in change at OCAS
15 was this issue of mixed geometry exposures and
16 how we accounted for the proper -- appropriate
17 geometry to be used, and you can see that here
18 we're considering 100 percent AP geometry as
19 the most favorable, as recommended by the
20 Board.

21 The third example of where we've heard the
22 Board is with regard to the practice of
23 assigning the dose received by the highest
24 exposed organ rather than the actual target
25 organ or a proper surrogate. And this has been

1 discontinued, unless this practice clearly
2 represents an efficiency approach that's
3 beneficial to a claimant.

4 And lastly as an example here, a number of
5 procedures and technical documents have been
6 revised for clarity based upon the Board's
7 review of dose reconstruction reports.

8 Furthermore, I would like to say that, with
9 regard to the dose reconstruction reviews and
10 comments generated from those reviews, we are
11 taking action now to identify and track and
12 monitor the implementation of change for any
13 Board DR review deficiencies that we feel are
14 substantive and require such a change. We're
15 starting with the first review -- set of review
16 that you've done and we're working on
17 developing that and we'll be happy to report
18 our progress on that very soon.

19 Also with regard to the working group procedure
20 -- on procedures and the issues tracking
21 database that Kathy showed you earlier this
22 afternoon, we feel that's a very important step
23 forward by the Board and this working group and
24 plan -- and I'm asking that my folks take a
25 look at how we can incorporate that and couple

1 it into our tracking system on issues related
2 to the Board's reviews so that we can make sure
3 that we're coupled there and coordinated with
4 that tracking system. So we appreciate the
5 work that went behind that and we think it'll
6 be a great utility to us in knowing just where
7 things stand on any given issue and what we can
8 make of that issue.

9 So with that, I think that concludes my slides
10 and my remarks, and I'm sure there are numerous
11 questions and I'd be happy to try to answer
12 them if I can.

13 **DR. ZIEMER:** Thank you, Larry. We appreciate
14 the detailed discussion on this issue. We'll
15 begin with Dr. Poston, Dr. Melius, Dr. Roessler
16 -- John, welcome.

17 **DR. POSTON:** Thank you. Larry, just a
18 clarification, if we could go back to your
19 percent and error visual, could you give me
20 some help with the abscissa?

21 **MR. ELLIOTT:** This slide or the previous --
22 this slide --

23 **DR. POSTON:** (Off microphone) (Unintelligible)

24 **MR. ELLIOTT:** So you're wondering about this
25 slide?

1 presenting and when I can't understand the
2 abscissa, I can't understand --

3 **MR. ELLIOTT:** I understand.

4 **DR. POSTON:** -- the (unintelligible).

5 **MR. ELLIOTT:** I understand. Not -- I'm going
6 to say to you that I believe these three
7 Augusts would really represent -- I hope --
8 June, July and August, I believe. No?

9 **MS. BEACH:** No, you've got two September --

10 **MR. ELLIOTT:** Got two Februarys -- well, I'm
11 going to have to go back to my folks and say
12 what did you give me here.

13 **DR. NETON:** (Off microphone) (Unintelligible)
14 go back to the previous slide?

15 **MR. GRIFFON:** Oh, you think it's from '07 to
16 '08.

17 **DR. NETON:** It's a quarterly report.

18 **MR. ELLIOTT:** The next slide? Thank you for
19 catching that, Dr. Poston.

20 **DR. BRANCHE:** Neton said go to the previous
21 slide.

22 **MR. ELLIOTT:** No, there's nothing there that --

23 **MR. CLAWSON:** It's -- it's back on I think --

24 **MS. MUNN:** I think it depends on how often they
25 reported during the month.

1 **MR. ELLIOTT:** Well, the other chart is
2 different than this one.

3 **DR. POSTON:** Yeah, but if you had three reports
4 in August, wouldn't you (unintelligible)?

5 **MR. ELLIOTT:** Well, my apologies for the
6 confusion that this has created, and I assure
7 you that my staff and I will have a discussion.
8 We'll figure out what happened here and we'll
9 get you a -- we'll substitute this slide with
10 the appropriate, accurate information.

11 **DR. ZIEMER:** Okay, thank you. Dr. Melius.

12 **DR. MELIUS:** Yeah, go back to your 11th slide,
13 which is step -- part of step four. It's the
14 draft DRs then reviewed by a senior HP there.

15 **MR. ELLIOTT:** Yes.

16 **DR. MELIUS:** Now is that done by an ORAU senior
17 HP, or is that done by a NIOSH?

18 **MR. ELLIOTT:** If you allow me, let me see where
19 I'm at in the process of this step four.

20 **DR. MELIUS:** Non-health physicist does the peer
21 review and then there's a...

22 **MR. ELLIOTT:** Okay, so that's done -- that's a
23 non-health physicist at ORAU who does that,
24 then we go to the next slide.

25 **DR. MELIUS:** And reviewed by a --

1 **MR. ELLIOTT:** Yeah, this is still with ORAU.
2 Draft DR is then reviewed by senior -- should
3 say ORAU health physicist for a peer review.

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

5 **MR. ELLIOTT:** 'Cause I think, if we go to one -
6 -

7 **DR. MELIUS:** Go to 14 -- step -- slide 14, then
8 you -- then you have a five percent review of
9 all draft DRs.

10 **MR. ELLIOTT:** Well, I think you've jumped too
11 many slides 'cause if you go back to that 11,
12 and then you go -- this is the slide you're
13 questioning about, go to the next slide, 12, it
14 says there "and the draft DR is sent to OCAS
15 for review."

16 **DR. MELIUS:** Right.

17 **MR. ELLIOTT:** The DR is reviewed by OCAS -- la,
18 la, la.

19 **DR. MELIUS:** Right.

20 **MR. ELLIOTT:** And then yes, later on there is a
21 five percent that are randomly selected for
22 review.

23 **DR. MELIUS:** Okay.

24 **MR. ELLIOTT:** That is by OCAS.

25 **DR. MELIUS:** Okay. Any my question then is

1 what are the -- what issues are reviewed there?
2 What is in this checklist of 18 individual
3 items that they're --

4 **MR. ELLIOTT:** Can one of my health physicists
5 help me with what's on that individual
6 checklist of 18 items? I don't know for --
7 I've got an idea, but I'm afraid I would mis-
8 speak.

9 **MR. TOMES:** This is Tom Tomes. I can answer
10 that question just because I've seen a number
11 of those. That checklist simply is a list of
12 various things that's checked routinely through
13 all -- all -- basically through all the dose
14 reconstruction reports. This is formalized as
15 that process and be sure that all these are
16 checked for that particular claim. Some of
17 it's basic information such as how the report
18 is written, the format is correct. Some of it
19 is just is the dose reconstruction methodology
20 correct. For example, one of them is the
21 missed dose done correctly, and that's either
22 yes or no or comment. And there's just various
23 things like that.

24 **MR. ELLIOTT:** We can get you a copy of this
25 checklist --

1 **DR. MELIUS:** Yeah, I'd like --

2 **MR. ELLIOTT:** -- if you'd like.

3 **DR. MELIUS:** -- to have a copy. How long does
4 that review take? I'm just trying to get a
5 sense of what the de-- the focus and depth of
6 that review is, that's --

7 **MR. TOMES:** Well, for me, it's a very -- on the
8 ones that I reviewed, it's a very fast process
9 because I tend to over-review such that these
10 things that are on the checklist, I've pretty
11 much already checked those things. So in other
12 words, may-- what I'm trying to say is this
13 like comes in the middle of the process, we go
14 through and review the DR and hit the approved
15 button and it randomly submits one of these to
16 be checked -- excuse me, I have to calm down
17 here -- it randomly submits one of the claims
18 to be reviewed from one of the checklists. And
19 so on my -- for the ones that I do personally,
20 I have pretty much checked every single thing
21 on the list, but this is a reminder that that
22 particular claim has to have each and every one
23 of those items checked.

24 **DR. MELIUS:** Okay.

25 **MR. ELLIOTT:** We can get you a copy of the

1 checklist.

2 **DR. MELIUS:** I'd like to get a copy. I'm just
3 trying to understand the --

4 **MR. ELLIOTT:** Sure.

5 **DR. MELIUS:** -- process. And is there any
6 documentation -- we go back to slide 12, the --
7 each -- each DR is reviewed by OCAS and is
8 evaluated to ensure -- what's -- I'm just
9 trying to get a sense --

10 **MR. ELLIOTT:** Yes, if the --

11 **DR. MELIUS:** How comprehensive are these
12 reviews?

13 **MR. ELLIOTT:** Well, if --

14 **DR. MELIUS:** Is this the comprehensive one, or
15 is the five percent sample -- or is the five
16 percent sample just sort of a -- a checklist
17 that, you know, tries to make sure that certain
18 things are -- have been covered in the earlier
19 review -- I mean it doesn't make sense why it's
20 a five percent. That's why I'm having trouble
21 if it's not comprehensive.

22 **MR. ELLIOTT:** Jim, you want to answer that?

23 **DR. NETON:** I think I can answer that. All the
24 dose reconstructions are reviewed by an OCAS
25 health physicist and signed by an OCAS health

1 physicist --

2 **DR. MELIUS:** Right.

3 **DR. NETON:** -- before they go out the door.
4 You've probably seen covers of the reports.

5 **DR. MELIUS:** Yeah.

6 **DR. NETON:** But as Tom Tomes has mentioned,
7 during the review process, the normal review --
8 this is all done on a computer screen. The
9 dose reconstruction comes up and the health
10 physicist has access to all the records
11 associated with the case. Five percent of the
12 time, on a random basis, essentially it's
13 selected for being audited. It'll -- it'll get
14 this additional tracking questionnaire, and so
15 it's a matter -- a way of trending the issues
16 that arise in the ORAU-provided dose
17 reconstructions on a five-percent random basis.
18 So it's not necessarily an additional review
19 where they're pulled out. It really is part of
20 the review process in general.

21 **MR. ELLIOTT:** It becomes a quality assurance
22 step -- the five-percent random selection is a
23 quality assurance. The -- I would answer your
24 question this way, Dr. Melius. The
25 comprehensive reviews occur during the peer

1 review process, and those comments and the
2 resolution of those comments are documented and
3 are trackable.

4 **DR. MELIUS:** So that peer review process is
5 done by ORAU.

6 **MR. ELLIOTT:** Peer review is done by ORAU.
7 Peer review is also done by OCAS. And
8 technical peer review for approval is also done
9 by OCAS. There are three distinct, if you
10 will, technical peer reviews.

11 **DR. MELIUS:** Okay.

12 **MR. ELLIOTT:** One -- one ORAU -- at least one
13 ORAU, and then two OCAS. An OCAS technical
14 staff person will review it as a peer, and
15 before the dose reconstruction is approved to
16 be sent as a draft to a claimant, there's
17 another health physicist at OCAS who examines
18 that and makes sure it's ready to go.

19 **MR. GRIFFON:** I -- I'm just questioning --
20 'cause there's three signatures on the cover
21 page. Right? Usually. The preparer, the peer
22 review, and the last one is an OCAS signature?

23 **MR. ELLIOTT:** Is an approval authority.

24 **MR. GRIFFON:** But the -- but the --

25 **DR. NETON:** Right, the last on e--

1 **MR. GRIFFON:** You mentioned two OCAS reviews,
2 they all wouldn't sign off, necessarily, they'd
3 just --

4 **MR. ELLIOTT:** No.

5 **DR. NETON:** Essentially, that -- the last
6 review before it goes out is essentially a team
7 leader type person --

8 **MR. GRIFFON:** Authorization --

9 **DR. NETON:** -- who would authorize it to go out
10 the door, but he doesn't necessarily sign the
11 report.

12 **DR. ZIEMER:** Okay. Dr. Roessler?

13 **DR. ROESSLER:** You mentioned the training for
14 the people who do the dose reconstruction. I
15 have a two-part question on that. What
16 credentials do you look for, first of all,
17 before you put a person on line as a dose
18 reconstructor. And then secondly, in that
19 classroom training, I'm wondering about the
20 extent of it. Well, first of all, who does it,
21 how long is it, is it hours or days, and in the
22 training do these people get some review of
23 basics of dosimetry? And then I would assume
24 how to use the procedures that you have set up.
25 I just want a little more information on -- on

1 that training.

2 **MR. ELLIOTT:** Sure, a very good question, and I
3 am not the one to go in great detail, but maybe
4 Stu can step up to the mike and help us out.
5 This -- this goes a lot to ORAU's procedures.

6 **MR. HINNEFELD:** I -- I can provide partial
7 information. There is -- there's a contract
8 requirement in the contractor's contract about
9 speci-- or qualifications a person has to have
10 in order to be a dose reconstructor, and it
11 includes I think -- well, they have to be a
12 health physicist with two years of experience,
13 I think. But there's a qualification in the
14 contract in order to even put somebody in that
15 position, before they even start to train them.
16 Anyone with that limited amount of experience
17 has to have their work reviewed by a more
18 senior or more experienced person, someone with
19 at least five years of -- I think the
20 experience has to be in radiation dosimetry or
21 -- or things like that. So you start with a
22 health physicist in ord-- before -- in order to
23 make a dose reconstructor.
24 And then for the training part, the training --
25 the formal classroom training, when a new

1 document comes out or a new workbook tool or
2 something comes out, the trainer is usually
3 either one of the principal dosimetrists for
4 the contractor's staff. They have individuals
5 who are designated -- you know, principal
6 internal dosimetrist, the principal external
7 dosimetrist, and they have certain assigned
8 duties for those people in those areas so
9 they're -- in their program and they will
10 oftentimes write that training. Or if the
11 training's about a new tool, meaning an
12 electronic, you know, workbook that facilitates
13 the completion of the calculations, it may be
14 the tool developer who actually explains the
15 use of that tool.

16 Now there -- there's training that's provided
17 on a less formal basis by their team leaders.
18 There are team leaders on the contractor side
19 who provide training to their teams with a more
20 -- when there are less major rollouts, when
21 there were essentially modifications to things
22 that were done.

23 **MR. ELLIOTT:** We can -- I'll make a note and
24 we'll try to get you more detailed information
25 about the training that is provided, to include

1 the procedure that ORAU had produced. And I
2 believe the working group on procedures has
3 looked at that. May not have -- we may not
4 have reacted to it yet, but I believe they have
5 examined it.

6 **DR. ZIEMER:** A little bit of follow-up, Stu.
7 When you say that the contract says they have
8 to be a health physicist, I know the Health
9 Physics Society has a hard time figuring out
10 who a health physicist is when they take
11 members in.

12 **MR. HINNEFELD:** Beg pardon? What'd you say?

13 **DR. ZIEMER:** I know that -- I said -- I think
14 even the Health Physics Society sometimes can't
15 figure out who a health physicist is. I don't
16 know what they are, but I know one when I see
17 one. But --

18 **MR. HINNEFELD:** Are you looking at one now?

19 **DR. ZIEMER:** -- is it somebody who has a degree
20 in health physics or who claims to be one, or -
21 -

22 **MR. HINNEFELD:** No, there's -- there's a degree
23 requirement, and --

24 **DR. ZIEMER:** Okay, a degree req--

25 **MR. HINNEFELD:** -- whether it says health

1 physics or health physics or a related field --
2 I mean it may -- oftentimes that's used
3 instead.

4 **DR. ZIEMER:** Right.

5 **MR. HINNEFELD:** There is an allowance for work
6 experience in lieu of education.

7 **DR. ZIEMER:** Okay.

8 **MR. HINNEFELD:** It's very similar to a lot --
9 what you'll see sort of in a hiring posting
10 very often.

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

12 **MR. HINNEFELD:** There'll be an experience
13 requirement or applicable work experience in
14 lieu of some education.

15 **DR. ZIEMER:** Okay, thank you. I think Dr.
16 Melius has another question.

17 **DR. MELIUS:** Yeah. Could have fun here with
18 who's a health physicist, but I'd better not --
19 too many in the room.

20 **DR. ZIEMER:** Better be careful.

21 **MR. GRIFFON:** You're outnumbered, yeah.

22 **DR. MELIUS:** Do that. Just back to the -- this
23 step-wise reviews, if you could provide the --
24 not only the checklist, but if there's a
25 procedure or something that documents what's

1 done at the ORAU review -- ORAU review and at
2 the OCAS review, it would be -- I think it
3 would be helpful. I'm just trying to --

4 **MR. ELLIOTT:** Sure.

5 **DR. MELIUS:** -- understand the process.

6 **MR. ELLIOTT:** The ORAU procedure is ORAU-PROC
7 59. I don't have a NIOSH number for you, but
8 that ORAU-PROC 59 will describe for you their
9 peer review process and provides a fairly
10 comprehensive checklist in itself.

11 **DR. MELIUS:** Okay.

12 **MR. ELLIOTT:** And then I'll have to get you the
13 other. There's also an ORAU procedure -- let
14 me get to it here -- that I have -- I just
15 happen to have these 'cause I was interested in
16 knowing the details on this -- ORAU procedure
17 PROC 77 talks about dose reconstruction error
18 tracking and reporting, and I believe both
19 those procedures have been in front of the
20 procedures workgroup.

21 **DR. MELIUS:** Okay. Slide 16, closeout
22 interview?

23 **MR. ELLIOTT:** Yes.

24 **DR. MELIUS:** Now -- now this is done by a non-
25 HP. Correct?

1 **MR. ELLIOTT:** The interview?

2 **DR. MELIUS:** Yeah.

3 **MR. ELLIOTT:** The interview -- the closeout
4 interview is done by typically a non-HP. An HP
5 can be called in if ORAU feels it is necessary
6 to have a health physicist, dose reconstructor,
7 involved to answer questions. But typically
8 the closeout interviews are performed by a non-
9 health physicist.

10 **DR. MELIUS:** Okay. That's what I wanted to
11 know.

12 **MR. ELLIOTT:** Many of these interviews don't
13 get to the details of how the dose
14 reconstruction was done. But if they do, then
15 they have the luxury, the ability, the
16 flexibility to bring in somebody who can speak
17 to those level -- that level of detail.

18 **DR. ZIEMER:** Okay, thank you. Other questions?

19 **MR. GRIFFON:** Just -- just one follow-up.

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

21 **MR. GRIFFON:** Larry, have you -- I know those
22 reports exist on the peer review process where
23 the peer reviewer will submit kind of --

24 **MR. ELLIOTT:** Comments.

25 **MR. GRIFFON:** -- comments and -- and then a

1 resolution column on those. Have you in any
2 way put those in any kind of database or looked
3 at trends on those? I know there's quite a few
4 of them.

5 **MR. ELLIOTT:** I'll have to get back to you on
6 that. I -- I know that in house, in OCAS, we
7 have a document resolution tracking system that
8 Grady Calhoun monitors and keeps track of.
9 I'll have to make sure what ORAU does, and I
10 don't know right now. Yes, we can look at
11 Grady's system and get a feel for whether or
12 not certain people are not addressing comments
13 or, you know, trying to --

14 **MR. GRIFFON:** Or -- or --

15 **MR. ELLIOTT:** -- the system, or if there is --

16 **MR. GRIFFON:** -- if procedures --

17 **MR. ELLIOTT:** -- some individual that's
18 constantly --

19 **MR. GRIFFON:** -- come up again and again --

20 **MR. ELLIOTT:** Yeah.

21 **MR. GRIFFON:** -- as being mis-implemented,
22 there would -- yeah. Yeah.

23 **MR. ELLIOTT:** Yeah, we can look at that in
24 Grady's system, but I have to check on ORAU's
25 part.

1 **MR. GRIFFON:** Okay.

2 **MR. ELLIOTT:** Get back to you. Let me make a
3 note of that as well.

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

5 **DR. ZIEMER:** Another question.

6 **DR. MELIUS:** -- two -- two more questions.
7 They're relatively straightforward. If -- you
8 had a slide 25 in your presentation with QA/QC
9 in the SEC process. In slide 25 you refer to
10 the SEC database, and I'm -- wasn't sure what
11 you were referring to there.

12 **MR. ELLIOTT:** That's probably something you
13 never have seen.

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

15 **MR. ELLIOTT:** We -- as we -- this is a
16 relatively new convention in our work to --
17 we've developed a -- what do they call it, the
18 PERM? We have an acronym for everything --

19 **DR. MELIUS:** The PERM?

20 **MR. ELLIOTT:** No, it's not the PERM, it's not
21 the PERM, it's the --

22 **DR. MELIUS:** I resent that.

23 **MR. ELLIOTT:** The PERM goes to the Program
24 Evaluation Reviews, I'm sorry.

25 **DR. MELIUS:** Okay.

1 **MR. ELLIOTT:** This is SEC.

2 **MR. RUTHERFORD:** It's the OSA, it's the OCAS
3 SEC Applications.

4 **MR. ELLIOTT:** And this is -- this is -- LaVon
5 has asked to have this database set up so that
6 all of the petitions that we have received can
7 be tracked. Not only those are being eva--
8 have been evaluated, are being evaluated, are
9 being considered by the Board, but all of them
10 that have been received. We can go in and
11 identify those that have not qualified for you,
12 we can identify those that have, we can speak
13 about the number of Energy employees that are -
14 - and claimants that were affected by each
15 class. That's the kind of thing that's in this
16 tracking system.

17 **DR. MELIUS:** So -- so LaVon, a couple of years
18 ago I think -- I think we had reviewed -- there
19 was a workgroup that was looking at --

20 **MR. RUTHERFORD:** Yes.

21 **DR. MELIUS:** -- non-qualified, that's that
22 database?

23 **MR. RUTHERFORD:** It's actually a --

24 **DR. MELIUS:** Or has that expanded since then?

25 **MR. RUTHERFORD:** It's expanded a little --

1 **DR. MELIUS:** Okay.

2 **MR. RUTHERFORD:** -- a little bit. We can --
3 we actually can produce a summary report that
4 defines -- I mean in addition to not having --
5 or in addition to petitions that didn't
6 qualify, we also can tell why they didn't
7 qualify, reasons for non-qualification. We can
8 -- we have the number of petitions we've
9 received to date, number of qualified, number
10 not qualified, number of classes added, number
11 of classes denied, classes -- or petitions
12 prior to the rule being implemented -- there's
13 a number of different things.

14 **DR. MELIUS:** Okay, thanks. I have one final --
15 it's more of a comment than a question, but
16 also brief -- the issue of reworks, these --
17 you sort of described a process you have to
18 sort of -- how do you take into account, you
19 know, areas that you're concerned about or
20 findings that come up at various levels, and
21 have you looked at the -- the reworks that have
22 come back from DOL as one possible source of,
23 you know, potentially changing your procedures
24 or methods or something like that? I was just
25 curious how those break -- break down in that

1 way. I mean a lot of the reworks have to do
2 with -- with other issues, so --

3 **MR. ELLIOTT:** So a lot of the reworks right now
4 -- you missed my -- my fabulous status --
5 program status report this morning, but a lot
6 of the reworks we're dealing with now are
7 driven by Program Evaluation Reviews where
8 there's a technical change that results in
9 potential for an increase in dose, and when
10 that happens we are obliged to look at all the
11 claims previously done found to be non-
12 compensable. And yes, this -- you're
13 absolutely right, Dr. Melius, the magnitude of
14 that effort has caused us to take stock of
15 where we're at and how we're monitoring and
16 processing and tracking our -- our progress on
17 all of these Program Evaluation Reviews that we
18 have before us. And that's where we decided,
19 again, we needed a tracking system. So that's
20 the PERM that I --

21 **DR. MELIUS:** Okay.

22 **MR. ELLIOTT:** -- mis-spoke about a moment ago.
23 That is the Program Evaluation Report
24 Management -- Manager tool or something -- my
25 folks are very adept at coming up with these

1 acronyms that I get lost in, so -- but yes, we
2 are looking at that. And I also think there's
3 -- you know, we need to address a QA/QC
4 component in that aspect of what we do now.

5 **DR. MELIUS:** Okay, okay, thanks.

6 **DR. ZIEMER:** Larry, when you do these analyses
7 -- for example, the table that we looked at
8 before with the -- the month by month by month
9 by month table -- but there you have some --
10 whether it's percent error -- I think -- I
11 guess that's -- you're hovering around a tenth
12 of one percent, it looks like.

13 **MR. ELLIOTT:** For those things that are
14 checked.

15 **DR. ZIEMER:** Right, for those items.

16 **MR. ELLIOTT:** For those items, and this is
17 electronic check, so...

18 **DR. ZIEMER:** Right. When you have something
19 like that -- and you could have other such
20 trending datasets, I suppose -- how do you know
21 -- 'cause at the front end of this program this
22 sort of says okay, here's where we are. But at
23 some point can you use these to set some kind
24 of quality goals, or do you set some quality
25 goals from this, based on what you already

1 know, and say okay, I think we can achieve this
2 -- as opposed to simply reporting this?

3 **MR. ELLIOTT:** Right, we --

4 **DR. ZIEMER:** To what extent are these -- are
5 you at a point where you can use these kind of
6 datasets to drive the quality of whatever it is
7 in the system that you want to drive? Are we
8 there yet or are we still sort of getting a
9 foundational set of numbers, or somewhere in
10 between?

11 **MR. ELLIOTT:** We can employ a whole quality
12 assurance/quality control cadre, if we wanted
13 to here, and I would answer your question that
14 we're not at the point I want us to be -- or
15 others in OCAS want us to be. We do have the
16 ability, as you see here in these two graphs,
17 to look at trend -- do trend analysis. We have
18 the ability in that to say to ourselves what's
19 going on, why this dip; can we ascribe the
20 reason for why we're seeing a decrease in the
21 number that we're finding to be acceptable
22 reports. And the graphs I've given you today
23 are based upon our electronic checks. We need
24 to come forward with the ability to dem-- and
25 demonstrate an ability to look at what Mark

1 asked about a minute ago. You know, how much
2 trend analysis do we see in comment resolution;
3 is there something to be made of that. And we
4 can spend a lot of time and a lot of money
5 trying to refine our programs to the point
6 where we're -- we're trying to get to 100
7 percent quality, but we have to remember our
8 overarching goal, too. And quite frankly, what
9 is -- what -- where is good good enough? And
10 so we want to make sure in our overarching goal
11 --

12 **DR. ZIEMER:** Well, that's sort of what I'm
13 asking, how do you decide that?

14 **MR. ELLIOTT:** Yeah.

15 **DR. ZIEMER:** Yeah.

16 **MR. ELLIOTT:** Yeah, so we've -- we've
17 identified --

18 **DR. ZIEMER:** It's sort of a rhetorical question
19 now.

20 **MR. ELLIOTT:** You know, I could give you
21 probably a couple of examples, Stu could give
22 you a couple more, where we've looked at
23 something and we say hey, that doesn't seem
24 right, and we've gone back -- look at our
25 assessments and -- and their findings, the

1 observations and the recommendations for
2 improvement there, and you'll see a number of
3 these things. Why does an assessment come
4 about? Because somebody's said something's not
5 right here. We look at -- at this and it
6 doesn't seem right. We -- we're -- or we have
7 a situation like we had with one claim where it
8 seems like a lot of compounding problems
9 existed with one claim, so we go in great
10 length and detail looking at how that occurred
11 for that one claim and can we find any other
12 claim that would exhibit the same set of
13 problems. So those things do go on. They may
14 not go on with the rigor that -- that many of
15 us want to see, but I think we're -- we're
16 doing a very good job in quality control and
17 quality assurance to meet our overarching goal
18 at this point.

19 **DR. ZIEMER:** Thank you. Okay, any other
20 questions?

21 (No responses)

22 Thank you. Thank you very much, Larry.
23 We have a break on the agenda for 45 minutes,
24 and then we have an hour public comment period.
25 I noticed before when I was in the corridor,

1 there was only one or two -- there's two
2 individuals that wanted to make public comment,
3 although there may be others that would come in
4 later to do so. But I was going to offer the
5 opportunity, if those who signed up to make
6 public comment, if they wished to do it
7 earlier, we could accommodate that. I'm not
8 requesting necessarily that they do it, but if
9 they are here, we could certainly accommodate
10 it if it's convenient to them.

11 Maybe I could get the names. I think one of
12 them may be from Senator Nelson's office.

13 **DR. BRANCHE:** Yes, she is. I'm looking for her
14 now.

15 **DR. ZIEMER:** And --

16 **MR. EVASKOVICH:** Yeah, I'm on.

17 **DR. ZIEMER:** You were the other? Do you -- do
18 you prefer to wait till later or would you --

19 **MR. EVASKOVICH:** It doesn't matter to me. I
20 suggest (unintelligible) take a break
21 (unintelligible) for myself.

22 **DR. ZIEMER:** Okay. Well, that's one way to
23 keep it short. Right? You can't leave till
24 you're done.

25 Okay. Well, we will take a break and then I'll

1 check with the others. Okay, let's go ahead
2 and take at least -- let's at least take a ten,
3 15-minute break here and then we'll -- we'll
4 reconvene, yeah. Comfort break, thank you.
5 (Whereupon, a recess was taken from 4:15 p.m.
6 to 4:30 p.m.)

7 **PUBLIC COMMENT**

8 **DR. ZIEMER:** If you'll take your seats, we'll
9 reconvene. We're going to begin our public
10 comment session. Before the members of the
11 public who wish to comment do so we're going to
12 have our Designated Federal Official give us
13 some words of wisdom on the redaction policy.
14 **DR. BRANCHE:** I'm going to do a slight
15 modification. Please understand that if a
16 person making a comment gives his or her name
17 during this period, no attempt will be made to
18 redact your name at that -- to redact your name
19 in any way, shape or form. We're using this
20 period now to make you aware of our redaction
21 policy. Please understand that your name will
22 appear in a transcript of the meeting posted on
23 a public web site, and that we've taken
24 reasonable steps for you to know that this is
25 what we're going to do.

1 If you would like to make a statement to the
2 Board but would like -- not like to have your
3 name used or would not like to make the
4 statement in person, if you could please see
5 me, we'll take care of that.

6 For those of you participating by phone, we ask
7 that you -- that you please mute your phones
8 until you're ready to speak. You'll hear Dr.
9 Ziemer giving you an opportunity to do that.
10 At that time you can unmute your phones. If
11 you do not --

12 **UNIDENTIFIED:** (Off microphone)

13 (Unintelligible) all cell phones shut off in
14 the room, please.

15 **DR. BRANCHE:** Okay. If you do not have a mute
16 button, then please use star-6 to mute your
17 phones. If -- when you're ready to speak,
18 please use the same star-6 to mute -- to unmute
19 your phone and then make your statement. At
20 the conclusion of having made your statement,
21 we then ask that you use star-6 again.

22 And a request has been made that everyone in
23 the room to please mute, silence or --

24 **UNIDENTIFIED:** (Off microphone) Turn off,
25 please.

1 **DR. BRANCHE:** Oh, turn it off.

2 **UNIDENTIFIED:** (Off microphone) Yeah, I'm
3 getting feedback on (unintelligible).

4 **DR. BRANCHE:** Turn off the phones. Thank you.
5 Dr. Ziemer?

6 **DR. ZIEMER:** Thank you very much. The first
7 person that wishes to address the Board is
8 Andrew Evaskovich, and Andrew, we also have a
9 copy of your presentation which will be made
10 available to the Board later as well. I think
11 -- I think Andrew has some slides he's going to
12 use as he addresses us.

13 Andrew represents petitioners from Los Alamos
14 National Laboratory -- or potential
15 petitioners, at least.

16 **MR. EVASKOVICH:** Well, potential and prior,
17 also -- well, the intention was prior, but the
18 -- some information came available today that I
19 have to make some corrections --

20 **DR. ZIEMER:** Pull that mike down, too.

21 **MR. EVASKOVICH:** Better?

22 **DR. ZIEMER:** That's good.

23 **MR. EVASKOVICH:** Okay. Good evening, Dr.
24 Ziemer and Board members. Thank you for taking
25 the time to listen to me and look at my

1 presentation. As you recall, I spoke at the
2 Board meeting in Denver on May 3rd, 2007. The
3 information that I'm presenting here I also
4 discussed there. It was concerning the Los
5 Alamos National Laboratory cohort -- Special
6 Exposure Cohort class that was added up until
7 1975.

8 My intention was to address issues tonight
9 concerning adding certain areas that were left
10 off. However, I was talking to LaVon
11 Rutherford today and he explained to me one of
12 the reasons was a date. However, I still think
13 the information pertains to the site profile
14 review that's being conducted, and there is
15 some other areas that I wish to discuss that
16 would still probably be included.

17 I'm going to go ahead and begin my
18 presentation.

19 I was going to discuss some concerns here, and
20 to start with, this Technical Area 28, which is
21 a magazine area, A. Magazine area A is an
22 explosives storage area located near the
23 southern edge of TA 16.

24 This is a map of the area, for your review.

25 These are the bunkers where the material was

1 stored. And that point right there is where
2 Technical Area 28 is located on Los Ala-- Los
3 Alamos National Laboratory. If you review page
4 280 of the verbatim transcript of the meeting
5 that I've already addressed TA 28. However, it
6 wasn't included in the class and, as I stated,
7 it's because of the date that it became
8 operational. So this would pertain to the
9 petition that I have submitted, and if it's
10 qualified and evaluated then this information
11 will probably be included in that one.
12 This is a Google earth view of the area, as you
13 can see, the five bunkers there and the road.
14 That's called Morro Road, and that's commonly
15 referred to as Morro Road bunkers.
16 And the reason I wanted to address this is
17 because of the LANL site profile. That
18 information there indicates that depleted
19 uranium was stored inside the area. Now this
20 is a closer view of that, referring to -- it
21 shows the document numbers and the actual TA 28
22 depleted uranium. And if you notice, it says
23 "firing site, 1979," that's the date when it
24 actually became operational -- and I learned
25 that from Mr. Rutherford, so I'd like to give

1 him credit for correcting me.

2 In the evaluation report it also demonstrates
3 that DU was present there, so this would be
4 application -- applicable to the upcoming SEC
5 if it's successful.

6 I'd also like to discuss TA 57, Fenton Hill.
7 Fenton Hill was originally developed to study
8 the use of hot dry rocks to general geothermal
9 energy. The geothermal project has been
10 completed and the site is now being processed
11 as the location for an astrophysics laboratory.
12 This is a map of LANL and surrounding areas.
13 The laboratory is located here. This is the
14 Caldera Preserve, or -- and Fenton Hill would
15 be located over here. The caldera was a very
16 large volcano that was active about one million
17 years ago and there is still volcanic inc-- not
18 incidents, but geothermal properties in the
19 area and that's why they were doing the testing
20 there for the Department of Energy in order to
21 develop alternative sources of energy.

22 This is another map of the area which actually
23 illustrates where TA 57 is located, to give you
24 a better picture of the location of the site.
25 And another view of the area -- this is the

1 actual area here. One of the concerns is the -
2 - there are two ponds here, and information I
3 developed concerns -- well, I'm not sure which
4 pond it is, and then there's also a leach field
5 that's of concern.

6 In order to qualify the information I'm going
7 to present, I need to discuss RCRA, which is
8 the Resource Conservation and Recovery Act, the
9 federal environmental law designed to account
10 for and ensure proper management of hazardous
11 waste from creation to disposal. The term
12 "disposal" means discharge, deposit, injection,
13 dumping, spilling, leaking or placing of any
14 solid waste or hazardous waste into or on any
15 land or water so that such solid waste, or
16 hazardous waste, or any constituent thereof,
17 may enter the environment or be emitted into
18 the air or discharged into any waters,
19 including groundwaters. This explains some of
20 the information and guidelines that are
21 necessary, and it was established for the
22 protection of public health and welfare,
23 protection of the quality of groundwaters and
24 surface waters and leachates, protection of the
25 quality of surface waters from runoff to

1 compliance with the effluents limitations of
2 the federal Water Pollution Control Act, and
3 protection of ambient air quality to compliance
4 with new source performance standards or
5 requirements of air quality plans under the
6 Clean Air Act.

7 Requirements of permit application are listed
8 here, and estimates with respect to the
9 composition, quantities and concentrates of any
10 hazardous waste identified or listed under this
11 sub-chapter, or combinations of any such
12 hazardous waste, and any other solid waste
13 proposed to be disposed of, treated,
14 transported or stored, and the time, frequency
15 or rate at which such waste is proposed to be
16 disposed of, treated, transported or stored.
17 And the description of the site.

18 Now this is taken from the NMED application for
19 the permit. As you can see, I've highlighted
20 here type of release and, as indicated on the
21 permit application, total uranium. This is
22 concerning drilling that was conducted in the
23 area, and then the material was sent to the
24 pond. The justification was there were samples
25 taken for the area, so it's -- it's kept in an

1 active status on the permit, so it's something
2 that they still need to evaluate.
3 And this is the leach field in the area, also,
4 as you can see -- type of release, total
5 uranium. So these areas need to be evaluated
6 for the radionuclide content.
7 I would also like to discuss some canyon
8 discharges in the area. It's documented that
9 radionuclides have been discharged into Pueblo
10 Canyon, Los Alamos Canyon, Mortendad Canyon and
11 Ancho Canyon. A lawsuit was recently filed --
12 and this was on February 7th of 2008 in the
13 District -- United States District Court for
14 the District of New Mexico. Several members
15 have filed the lawsuit or they've come together
16 to file the lawsuit and it's versus the
17 Department of Energy, Samuel Bodman is the
18 Secretary, Los Alamos National Security and
19 Michael Anastasia was the Director of the
20 Laboratory. This is the complaint for
21 declaratory and injunctive relief.
22 Some information contained in the complaint --
23 this is from the introduction, specifically
24 that LANL is failing to comply with the NPDES*
25 permit's prohibition (sic) on violating water

1 quality standards, failing to comply with the
2 permit's monitoring and reporting requirements,
3 and failing to adhere to the permit's mandate
4 that LANL have effective effluent limitations
5 and pollution control measures in place for
6 each of the approximately 59 sites.
7 This is stated in the complaint in the
8 background portion. According to LANL,
9 plutonium is moved down Pueblo Canyon through
10 Los Alamos Canyon, off-site across San
11 Ildefonso Pueblo lands and reaches the Rio
12 Grande near the Otowi Bridge. Also stated in
13 the complaint in an April 1, 2005 submission to
14 EPA, individual permit application LANL states
15 that there are approximately 1,300 sites; 960
16 (unintelligible), which are solid waste
17 management units; and 350 AOCs, which are areas
18 of concern. These are at the facility and they
19 remain active and have not received NFA status.
20 And NFA means no further action.
21 Following rain or snow-melting events,
22 contaminants from these approximately 1,300 to
23 1,400 sites, runoff into the soil, surface
24 water and shallow groundwater for the Lab's
25 seven watersheds and canyons, and eventually

1 traveling down gradient to the Rio Grande.
2 These storm water runoff events are well-
3 documented by LANL and MED and EPA. EPA
4 determined that LANL was failing to effectively
5 monitor and control runoff from all of the
6 sites.
7 These are the counts charged in the complaint.
8 Count One, violation of water quality
9 standards; Count Two, failure to conduct
10 representative monitoring; Count Three, failure
11 to conduct quarterly visual monitoring; Count
12 Four, failure to conduct benchmark monitoring;
13 Count Five, failure to conduct compliance
14 monitoring; Count Six, reporting violations;
15 Count Seven, pollution control violations.
16 As you can see from the red highlights, the
17 runoff flows through these Technical Areas.
18 They were not included in the LANL SEC petition
19 up to the years 1975. They were not cons--
20 they were considered buffer areas to the
21 Laboratory, and their intent was to provide a
22 zone where operations does not take place but
23 were to protect the environment and property.
24 However, the canyons tend to flow down into
25 these areas.

1 And my argument basically is that due to the
2 runoff and collection of the runoff, there is a
3 possibility that radionuclides are in those
4 areas and that they should be included in the
5 SEC. TA 28, because of the new information,
6 should not be included in the class, but should
7 be considered for the upcoming petition. TA 57
8 should be evaluated also for the upcoming
9 petition, as well as the site profile, for
10 total uranium. TA 70, 71 and 74 should be
11 evaluated for radionuclide contamination due to
12 runoff.

13 And that's the end of my presentation. Are
14 there any questions from the Board?

15 **DR. ZIEMER:** Thank you, Andrew. I have one
16 brief question. So in those areas that you
17 identified, are there actually workers in those
18 areas or -- you said they were buffer areas of
19 some sort?

20 **MR. EVASKOVICH:** Well, we know for a fact that
21 guards used to patrol in those areas in the
22 early days on horseback, and then later in
23 jeep.

24 **DR. ZIEMER:** Oh, thank you.

25 **MR. EVASKOVICH:** There were a lot of patrols on

1 the outlying areas. In fact, when -- when the
2 Laboratory grounds were much larger, you know,
3 up in the mountains and stuff like that, so
4 around the boundaries guards were patrolling in
5 there. And other possibilities for workers,
6 I'm not sure of. But with contract workers --
7 say archaeologists, or possibly the other
8 workers -- could be in those areas, depending -
9 - water quality people. There's a lot of
10 different work that does occur or monitoring
11 that does occur in those areas.

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

13 **MS. BEACH:** I just want to add to your
14 question. What were the frequencies of those
15 patrols?

16 **MR. EVASKOVICH:** I don't have that information.
17 I haven't actually discussed it with one of the
18 guards, but from what I understand they were
19 quite frequent in the earlier days.

20 **MR. SCHOFIELD:** I can answer that question.
21 Daily. It was daily in the -- in the summer,
22 late spring and summer and fall.

23 **DR. ZIEMER:** Use your mike, Phil.

24 **MR. SCHOFIELD:** In answer to your question,
25 those patrols were done on horseback and jeep

1 on a daily basis, from early spring up until
2 early in the fall.

3 **DR. ZIEMER:** Thank you. Thank you, Andrew.

4 **MR. EVASKOVICH:** Thank you.

5 **DR. ZIEMER:** Next we're going to hear from
6 Sherry Davich, and she is with Senator Bill
7 Nelson's office. Sherry, welcome.

8 **MS. DAVICH:** Is this good? First of all, from
9 Senator Nelson, he wanted me to welcome all of
10 you to the Sunshine State, and we're glad that
11 you chose to have your 54th meeting here in
12 Florida. He also wanted me to thank you for
13 your service to the Advisory Board and, from my
14 brief time here this afternoon, I can see
15 that's a huge undertaking, and thank you.
16 I just have some brief comments from him that
17 he -- since y'all were here, we thought we'd
18 take this opportunity.

19 I'm here on behalf of United States Senator
20 Bill Nelson, who is gravely concerned about the
21 high rate of illnesses among former workers at
22 the Pinellas Plant. And as y'all know, that
23 plant is very near the location here. He is
24 eager to ensure that the steps required to
25 obtain compensation are carried out in

1 adherence to the law and with expedience so
2 that those who are entitled to benefits receive
3 them quickly and efficiently as possible.

4 In our letter to the Advisory Board dated
5 November 28, 2007 Senator Nelson requested that
6 a working group be convened to discuss the
7 Pinellas Plant site profile review and act upon
8 its findings. The site profile review raised
9 several serious questions that must be
10 addressed. Senator Nelson has not yet received
11 response to his letter, and I ask, on his
12 behalf, that the Board consider his request and
13 provide an answer. I have a copy of the
14 letter.

15 And earlier I talked to Dr. Ziemer and he said
16 he did have some information to share with me,
17 so I'll go ahead and give you this letter. I
18 think you already have it.

19 **DR. ZIEMER:** Yes, I do. And -- thank you. And
20 the letter from Senator Nelson actually was
21 distributed last fall to the Board, so you
22 should all have copies of it. But we have a
23 rule, and I've explained that previously to
24 Sherry, that the rule is that the Chair must
25 have the Board approve responses to

1 Congressional letters. And so I've put at your
2 places a proposed draft for Senator Nelson, and
3 I'd like to read that into the record and ask
4 for the Board to approve transmitting this to
5 the Senator.

6 So the Honorable Bill Nelson, U.S. Senate,
7 Washington, DC. Dear Senator Nelson, Thank you
8 for your letter of November 28, 2007 expressing
9 your concern about the status of Board actions
10 relating to the review of the Pinellas Plant
11 site profile. Although the Board's agenda for
12 closing issues raised by our contractor for
13 this, and many other facilities, has been
14 extremely full, it appears that we are now in a
15 position to focus more directly on Pinellas
16 issues.

17 As you know, the Board has scheduled its April
18 meeting to be in Tampa, in the vicinity of the
19 Pinellas Plant. This will provide an
20 opportunity for former Pinellas workers to
21 share their views and concerns with the Board
22 through our public comment process. Further,
23 it will be appropriate at that meeting for the
24 Board to consider the establishment of a
25 workgroup to deal specifically with the

1 findings of the SC&A review of the Pinellas
2 site profile.

3 We will keep your office informed of all
4 workgroup meetings and other activities related
5 to the Pinellas Plant. Sincerely, Paul Ziemer,
6 Chairman.

7 I might add parenthetically, if the Board
8 approves this, during our working time later in
9 the meeting we would actually discuss then the
10 formal establishment of a workgroup and -- and
11 assuming such a group is established, whenever
12 they met we would inform your office so that
13 you could attend either by phone or in person.

14 **MS. DAVICH:** Thank you.

15 **DR. ZIEMER:** And all of our workgroup meetings
16 are open to the public as well.

17 **MS. DAVICH:** We appreciate that. Thanks.

18 **DR. ZIEMER:** Board members --

19 **MS. DAVICH:** Does anyone have any questions?

20 **DR. ZIEMER:** -- questions or comments? Mr.
21 Clawson.

22 **MR. CLAWSON:** Yeah, I'd just make a comment
23 that we have the other two Board members on the
24 other side, Ms. Beach and Phil.

25 **DR. ZIEMER:** Actually this must have been a

1 pasting and cutting error because --

2 **MR. CLAWSON:** Well, our QA/QC program.

3 **DR. ZIEMER:** Actually --

4 **DR. MELIUS:** The Executive Secretary got
5 updated.

6 **DR. ZIEMER:** Actually if I show you a copy of
7 the original letterhead, you'll see that their
8 names are on it, and who knows what happens
9 between -- between the copier and -- and
10 whatever. I could also claim that I just did
11 that to see if you guys were alert, but --

12 **DR. MELIUS:** Yeah, Larry already tried that.

13 **DR. ZIEMER:** -- didn't -- didn't work. But I
14 will ask for a formal approval of this letter
15 that we might transmit -- with any additions or
16 changes the Board may wish to make.

17 **MR. CLAWSON:** I move to approve this letter.

18 **DR. ZIEMER:** Is there a second?

19 **MS. BEACH:** I'll second it.

20 **DR. ZIEMER:** Any discussion?

21 (No responses)

22 All in favor, aye?

23 (Affirmative responses)

24 Mr. Presley, if you're on the phone, you may
25 have heard the letter. Any objections from

1 you?

2 (No responses)

3 I hear no objection. He may not be there, but
4 we do have a majority. The motion carries and
5 we will transmit an original copy of the
6 letter. I'm also going to provide this letter
7 to the press. There is someone here from the
8 media -- yes, in the back -- and you'll have to
9 ignore the part of the letterhead that's
10 incorrect with the naming of the Board members.
11 The ones who aren't listed feel slighted, for
12 some reason.

13 Thank you very much, and we will proceed from
14 that basis.

15 **MS. DAVICH:** Okay, thank you. Thank you.

16 **DR. ZIEMER:** We appreciate your being here very
17 much, Sherry.

18 **MS. DAVICH:** Okay.

19 **DR. ZIEMER:** I'd like to ask now if there are
20 other individuals here in the assembly that
21 wish to address the Board at this time who may
22 not have had a chance to sign on the sign-up
23 sheet.

24 (No responses)

25 Is there anyone present by phone who wishes to

1 address the Board in this, our public comment
2 session.

3 **MS. JACKSON:** Yes, I -- I do.

4 **DR. ZIEMER:** Please give us your name and then
5 you may proceed.

6 **MS. JACKSON:** My name is Sandra Jackson.

7 **DR. ZIEMER:** Sandra Jackson, thank you. Please
8 proceed.

9 **MS. JACKSON:** This is concerning my dad, Donald
10 (unintelligible), who is number 2076
11 (unintelligible) NIOSH number. How much time
12 am I allowed?

13 **DR. ZIEMER:** Ten minutes is the timing we allow
14 for public comments.

15 **MS. JACKSON:** All right. My dad was listed as
16 a bomb assembler and handler. He was
17 (unintelligible) trained in 1957 at Nevada Test
18 Site. He died of pancreatic cancer that
19 mastatized (sic) to the liver. He had many
20 skin cancers, including one documented
21 melanoma, and he also had a thyroidectomy that
22 was removed because of growth after the time
23 that he spent in Tonapah -- the Tonapah test
24 site and at NTS as well. We lived in Tonapah
25 from the early '60s through December of 1962.

1 He was assigned to the Tonapah test site, but
2 we know that he was going from Tonapah test
3 site to NTS on a regular basis to oversee
4 tests. The only records that have been given
5 on him were shown up for NTS, which was an
6 affidavit from somebody (unintelligible) that
7 worked with him on several (unintelligible).
8 He told us of the times that he was told to
9 remove his badge, put it in the refrigerator,
10 and go about his work, especially walking down
11 to ground zero within 24 hours after a test
12 shot to clean up while the area was still
13 flaring. He complained about leaky suits,
14 canisters and how so many men got sick in
15 Sandia. He actually originally worked for
16 Sandia National Lab, and he told us that
17 (unintelligible) problems. When he knew he
18 received heavy doses of radiation upon turning
19 in his badge (unintelligible) results came back
20 as inconclusive results due to a lab
21 malfunction.

22 As a bomb handler -- assembler and handler, the
23 only dosimetry records that we were able to
24 find were in 1957 when he was just starting to
25 be trained, and 1964 to 1965. It's ludicrous

1 to even think that a bomb assembler and handler
2 would not be required to wear a badge at all
3 times. Dad told us he wore his badge all the
4 time, and it's a well-known fact that these
5 records conveniently disappeared.

6 (Unintelligible) regular newspaper reports of
7 people that are aware of boxes of old records
8 that are purged and dumped from NTS.

9 Right now the cohort for compensation is 250
10 days at NTS. My dad would most likely fit into
11 that, but there is no record to prove that he
12 was there (unintelligible) prove he was there
13 (unintelligible) affidavit we have.

14 (Unintelligible) for the sign-in sheets that
15 have to be filled out every time somebody
16 enters NTS, and nobody has the slightest idea,
17 so we figure they've gone with rest of the
18 problematic records.

19 We have an affidavit of an employee for
20 (unintelligible) Electric Engineering who
21 worked with the Sandia crew my dad was part of
22 in the SEDAN test on July 6th of 1962, and also
23 worked with my dad on numerous other occasions
24 as well from the late '50s to the late -- to
25 the mid-'60s. He described what my dad and

1 Sandia crew did. My dad locked the bomb in,
2 which he assembled. He (unintelligible) the
3 canister that held the nuclear device for the
4 test, ran diagnostic tests to record the action
5 and resistance of the test, (unintelligible) to
6 be sure of the continuity of the test. The
7 next day after the test went in with the crew
8 and released the cable and clean up, many times
9 while the test was still flaring.

10 We have also asked how many bomb handlers and
11 assemblers were trained (unintelligible) of the
12 numerous amount of tests (unintelligible)
13 nuclear tests that were done in that area, just
14 to get an idea of how many test shots for each
15 of these bomb assemblers and handlers had.

16 From 1951 to 1962 there were 1,021, of which
17 921 were underground, just as an example. I
18 took a range of Operation (unintelligible),
19 which was -- there were 44 tests that ranged
20 from 43 kilo-- .43 kilotons to 67, and
21 Operation PLOWSHARE, which ranged from .37 to
22 12 kilotons. The biggest one that I have the
23 affidavit in that my dad was (unintelligible)
24 into was the SEDAN test, which was 104
25 kilotons. It yielded I guess at this point

1 more than 11 million tons of soil, went to
2 12,000 feet into the air, and created a 324-
3 foot-deep diameter and 1,200 feet wide -- a
4 (unintelligible) that it created.

5 My contention is being exposed to one test like
6 SEDAN from assembling a 104-kiloton bomb,
7 placing it and cleaning up at ground zero, plus
8 who knows how many other tests, leaves little
9 doubt to the high probability of the cancer
10 that caused his death.

11 In 1963 when we returned from Tonapah back to
12 Albuquerque my dad had to have a thyroid
13 removed that was caused by growth, such as we
14 see at Chernobyl. It was not even considered -
15 - we have the proof of the surgery -- because
16 it was not cancerous; he caught it too soon.
17 He had many skin cancers, of which essentially
18 only one melanoma was documented. In 1973 he
19 went through radiation decontamination as
20 directed by a friend that helped at Hiroshima
21 because of him being so sick and the doctors
22 not being able to help him.

23 In looking at an aerial picture of the potholes
24 that NTS created by these tests, knowing that
25 the half-life of plutonium is 24,000 years, and

1 that Trinity, New Mexico has been permanently
2 closed because of contamination and safety is
3 just a few of the issues that we see. The
4 government still has paid out only a fraction
5 to those who have suffered untold pain,
6 sickness and death due to the radiation they
7 were exposed to because records were lost,
8 destroyed or covered up.

9 My question is, what kind of protective
10 screening was given to these people during
11 assembly, handling of the bombs and cleanup
12 after -- after the tests, or even how good back
13 in the late '50s and early '60s were these?
14 NIOSH admits that there was no monitoring on
15 certain respirators. How safe were the
16 respirators? Tonapah test site recently added
17 testing for insoluble plutonium. What is
18 insoluble plutonium? And dad was not even
19 considered for that because he was said to be
20 administrative only, which by this affidavit
21 proves that that is not right. The earlier
22 bombs were also considered dirty bombs that
23 created far more radiation and fallout than our
24 newer bombs. This is a situation
25 (unintelligible) due to compensation -- is due

1 the compensation for (unintelligible) heroic
2 efforts in the Cold War. He suffered untold
3 radiation, covered up by our knowing government
4 and Sandia National Labs, causing more
5 suffering and a horrible death due to cancer.
6 (Unintelligible) sacrifice of his own life
7 helped to protect our country in his efforts to
8 stay ahead of the (unintelligible) the
9 technologies of the Cold War. What can we do
10 to (unintelligible) legislation to be passed to
11 fix the flaw in this previous legislation of
12 250 days, and are there any working groups to
13 address this particular situation?

14 **DR. ZIEMER:** Okay.

15 **MS. JACKSON:** Those are my questions.

16 **DR. ZIEMER:** Thank you, Sandra, and some of
17 those questions at the moment are -- have to be
18 treated somewhat rhetorical. There are some of
19 the issues, such as the 250-day issue, that are
20 being addressed by some of our workgroups. Not
21 all of the questions you asked are currently
22 being addressed, but we thank you for raising
23 them and that gives us here food for thought as
24 well.

25 Let me ask now if there are other individuals

1 on the line that wish to make public comment?

2 (No responses)

3 Any other individuals here in the local
4 assembly that wish to make public comment?

5 **MS. HOYT:** Excuse me, my name is Rosemary Hoyt
6 and I am on the line.

7 **DR. ZIEMER:** Okay. Hello, Rosemary.

8 **MS. HOYT:** How are you?

9 **DR. ZIEMER:** Yeah, Rosemary Hoyt. You may
10 proceed, Rosemary.

11 **MS. HOYT:** Thank you. My comments are
12 (unintelligible) day from the procedures
13 workgroup. It sounded like three-fourths of
14 the time and effort went into producing that
15 database. It was my understanding that that
16 database was to track findings. Later Mr.
17 Elliott (unintelligible) database would be
18 (unintelligible) also.

19 During past Advisory Board meetings other
20 issues have been brought up. (Unintelligible)
21 seem appropriate to have a method to track
22 these issues as well. (Unintelligible)
23 questions and follow-up items from workgroup
24 meetings (unintelligible) Advisory Board
25 meetings be added to the database.

1 I also suggest the status of the findings and
2 issues be posted on the (unintelligible) web
3 site (unintelligible) occur. It has been an
4 ongoing problem with (unintelligible) submitted
5 to the Advisory Board and workgroup that
6 (unintelligible) worker outreach that -- to the
7 web site in a timely manner. As Sandra Jackson
8 just pointed out, she had several questions
9 that she would like to have answers to, and I
10 would like to know how these answers are going
11 to be followed-up on. In the past it seems
12 like many of these questions are accepted, but
13 there's no follow-up and follow-through.

14 **DR. ZIEMER:** Thank you, Rosemary. That's --
15 actually is a very good suggestion. We are in
16 fact trying to do a better job of -- of keeping
17 issues from falling through the cracks. We
18 have a person who has joined the NIOSH staff --
19 somewhat recently -- but Nancy is trying to
20 help us track issues and -- and hopefully we
21 can do a better job. It may very well be that
22 some of these other issues could be placed in a
23 database for follow-up. That's a good
24 suggestion. Thank you very much.

25 **MS. HOYT:** Thank you, Dr. Ziemer.

1 **DR. ZIEMER:** Other comment-- commenters on the
2 line?

3 **MR. DUTKO:** (Unintelligible)

4 **DR. ZIEMER:** Yes.

5 **MR. DUTKO:** (Unintelligible)

6 **DR. ZIEMER:** Your -- your voice is breaking up.
7 Let's -- move a little bit away from your phone
8 and try that again. Let's see if we can hear
9 you better. Are you on a -- are you on a land
10 line phone?

11 **MR. DUTKO:** Yes, sir.

12 **DR. ZIEMER:** Yeah --

13 **MR. DUTKO:** (Unintelligible) if you don't
14 receive the --

15 **DR. ZIEMER:** We're having a -- we're having a
16 great deal of trouble understanding you. I --
17 your -- your phone line seems to be breaking up
18 so it's very sort of intermittent.

19 **MR. DUTKO:** Is this any better, Doctor?

20 **DR. ZIEMER:** That's a little better. Try it
21 from that angle and see if that works.

22 **MR. DUTKO:** Sir, my name is John Dutko. I was
23 a Betatron (unintelligible) operator at General
24 Steel in the early (unintelligible). I
25 (unintelligible) pieces (unintelligible).

1 (Unintelligible) Roentgens we fired, none of it
2 seems to be documented. (Unintelligible)
3 legitimate and active dose reconstruction team
4 (unintelligible) in our case when there is no
5 records of the many (unintelligible) Roentgens
6 (unintelligible). Is this not (unintelligible)
7 error? Is (unintelligible) not in error
8 (unintelligible) we're told (unintelligible)
9 not qualified in this manner? I'm not trying
10 to be -- I'm not trying to be (unintelligible).
11 It shouldn't be hard for me to understand
12 (unintelligible) no records (unintelligible)
13 how did those accurate dose reconstructions
14 apply to us operators who wound up
15 (unintelligible) case of cancer
16 (unintelligible) our cancer -- our type of
17 cancer to (unintelligible). Thank you, sir.

18 **DR. ZIEMER:** Okay, thank you. And as you know,
19 we're still working on the General Steel issue,
20 so hopefully we'll be able to come up with some
21 reasonable answers on that sort of overriding
22 question that you raise.

23 **MR. DUTKO:** Sir, I -- I fully understand
24 (unintelligible) quality (unintelligible)
25 excellent procedures you have. We just have a

1 difficult time understanding how any
2 (unintelligible) accurate dose reconstruction
3 can be made with no records. Is it
4 guesstimates? When we (unintelligible) our
5 records. We have (unintelligible) on paper.
6 (Unintelligible) record of this at that time.
7 But how all the different types of radiation to
8 be applied (unintelligible). We should
9 (unintelligible) neutron, how (unintelligible)
10 can apply to us if there is no accurate records
11 (unintelligible). Thank you, sir.

12 **DR. ZIEMER:** Okay, thank you. John, give us
13 your last name again for our court reporter.
14 He didn't get it.

15 **MR. DUTKO:** My name is John G. Dutko, D as in
16 dog, u-t-k-o.

17 **DR. ZIEMER:** D-u-c-k-o.

18 **MR. DUTKO:** T -- T as in (unintelligible).

19 **DR. ZIEMER:** D-u-t-k-o.

20 **MR. DUTKO:** T as in (unintelligible).

21 **DR. ZIEMER:** Got it.

22 **MR. DUTKO:** Thanks, Doctor.

23 **DR. ZIEMER:** Thank you very much. And NIOSH
24 and some of our other folks are in fact trying
25 to gain information from you and your coworkers

1 on answering some of those questions about the
2 -- in the absence of records, what -- what can
3 help us fill in some of those gaps, so --

4 **MR. DUTKO:** Doctor, we (unintelligible) done
5 the best we can.

6 **DR. ZIEMER:** Yes, we understand that, and we're
7 -- also [name redacted] has been helping with
8 that, as has Dr. McKeel, so hopefully with
9 everyone's help we'll be able to come up with
10 some -- some answers.

11 **MR. DUTKO:** Thank you.

12 **DR. ZIEMER:** Thank you. Let me ask now for
13 others who may wish to comment. Anyone else on
14 line that wishes to comment?

15 (No responses)

16 Okay, I hear no others. Again I'll ask if
17 anyone here in the assembly wishes to make
18 comment.

19 (No responses)

20 If not, then we will recess for the day and we
21 will reconvene tomorrow morning at 8:30. Thank
22 you very much.

23 (Whereupon, the meeting concluded at 5:12 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 Apr. 7, 2008; and it is a true and accurate transcript of the testimony captioned herein.

I further certify that I am neither kin nor counsel to any of the parties herein, nor have any interest in the cause named herein.

WITNESS my hand and official seal this the 10th day of May, 2008.

STEVEN RAY GREEN, CCR, CVR-CM, PNSC**CERTIFIED MERIT COURT REPORTER****CERTIFICATE NUMBER: A-2102**