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

convenes

WORKING GROUP

ADVISORY BOARD ON
RADIATION AND WORKER HEALTH

PROCEDURES REVIEW

The verbatim transcript of the Working Group Meeting of the Advisory Board on Radiation and Worker Health held in Cincinnati, Ohio, on Dec. 11, 2007.

STEVEN RAY GREEN AND ASSOCIATES
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-- "uh-huh" represents an affirmative response, and "uh-uh" represents a negative response.

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

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

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

(By Group, in Alphabetical Order)

DESIGNATED FEDERAL OFFICIAL

BRANCHE, Christine, Ph.D.

Principal Associate Director

National Institute for Occupational Safety and Health

Centers for Disease Control and Prevention

Washington, DC

BOARD MEMBERS

GIBSON, Michael H.

President

Paper, Allied-Industrial, Chemical, and Energy Union

Local 5-4200

Miamisburg, Ohio

MUNN, Wanda I.

Senior Nuclear Engineer (Retired)

Richland, Washington

PRESLEY, Robert W.

Special Projects Engineer

BWXT Y12 National Security Complex

Clinton, Tennessee

ZIEMER, Paul L., Ph.D.

Professor Emeritus

School of Health Sciences

Purdue University

Lafayette, Indiana

IDENTIFIED PARTICIPANTS

ANIGSTEIN, BOB, SC&A
BEHLING, KATHY, SC&A
BRACKETT, LIZ, ORAU
BURGOS, ZAIDA, NIOSH
CHANG, CHIA-CHIA, NIOSH
ELLIOTT, LARRY, NIOSH
FIX, JACK, ORAU
GUIDO, JOE, ORAU
HINNEFELD, STUART, NIOSH
HOMOKI-TITUS, LIZ, HHS
HOWELL, EMILY, HHS
KIMPAN, KATE, ORAU
KOTSCH, JEFF, DOL
LABONE, TOM
MAKHIJANI, ARJUN, SC&A
MARSCHKE, STEVE, SC&A
MAURO, JOHN, SC&A
OSTROW, STEVE, SC&A
SIEBERT, SCOTT, ORAU
SMITH, MATTHEW
THOMAS, ELYSE, ORAU
WADE, LEWIS, NIOSH

P R O C E E D I N G S

DEC. 11, 2007

(9:30 a.m.)

OPENING REMARKS

DR. BRANCHE: Hi, this is Christine again; I just want to check to make certain who the board members are on the phone, please.

Good morning, we're ready to begin the working group on procedures that's meeting today beginning at 9:30. I'm Dr. Christine Branche from NIOSH. We have Wanda Munn and Robert Presley here with us in Cincinnati and Michael Gibson participating by phone. Are there any other board members who are participating by phone?

(no response)

Okay. Can we please begin with an introduction of NIOSH staff beginning with people who are here in the room.

MR. ELLIOT: Larry Elliott, NIOSH.

MR. HINNEFELD: Stu Hinnefeld from NIOSH.

DR. WADE: Lou Wade with NISOH.

MR. PRESLEY: Robert Presley with the Board.

MS. THOMAS: Elyse Thomas with the ORAU team.

MS. HOWELL: Emily Howell, HHS.

DR. MAURO: SC&A, John Mauro.

MR. MARSCHKE: Steve Marschke with SC&A.

1 **DR. MAKHIJANI:** Arjun Makhijani with SC&A.

2 **DR. BRANCHE:** Are there any other NIOSH staff
3 participating by phone?

4 **MS. BURGOS:** Zaida Burgos, NIOSH.

5 **DR. BRANCHE:** Thank you.

6 **MS. CHANG:** Chia-Chia Chang.

7 **DR. BRANCHE:** What was that last name please?

8 **DR. WADE:** Chia-Chia Chang.

9 **DR. BRANCHE:** Chia-Chia, okay thank you. Are there
10 any other ORAU staff participating by phone?

11 **MR. ELLIOTT:** Dr. Ziemer's on his way.

12 **MR. SIEBERT:** Scott Siebert from the ORAU team.

13 **MS. BRACKETT:** Liz Brackett with the ORAU team.

14 **MR. SMITH:** Matthew Smith --

15 **MR. FIX:** Jack Fix, ORAU team.

16 **DR. BRANCHE:** Thank you. Are there --

17 **MR. LABONE:** Tom LaBone.

18 **DR. BRANCHE:** Okay.

19 **MR. GUIDO:** Joe Guido, ORAU team.

20 **DR. BRANCHE:** Are there any other SC&A staff
21 participating by phone?

22 **DR. OSTROW:** Steve Ostrow.

23 **DR. ANIGSTEIN:** Bob Anigstein.

24 **DR. BRANCHE:** Who is -- Okay I got Bob, who was the
25 other person?

1 put together the new format that has given us so much
2 grief over the past few months and have made excellent
3 progress on it. I think most of the folks here have
4 either hard copies or have electronic copies of
5 material that Kathy has sent out in the last two or
6 three days. John?

7 **DR. MAURO:** Yes Wanda, in addition to the electronic
8 copies, the four files that Kathy sent out
9 electronically earlier, she asked me to distribute
10 this package to everyone here. And it would really be
11 fundamental database, the Access database upon which
12 we -- that we use to build the four files that
13 everyone has and she wanted to say some words about
14 this tool because it's a new strategy, we've been
15 working with Word or Excel, this is the first time we
16 are using Access which is a bit more powerful tool and
17 she thought it'd be worthwhile spending a few minutes
18 describing the fundamentals of this thing so that it get
19 a better appreciation of this new Matrix approach.

20 **MS. MUNN:** For those of us who are not regular Access
21 users which includes me, this will I expect be very
22 helpful and my special thanks to Kathy for having
23 gotten this into our hands over the weekend so that we
24 could at least have some concept of how it's going to
25 go. Kathy, are you ready to address this?

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

2 **MS. MUNN:** Please do. Go right ahead. We now have
3 the hard copies of what's been provided in hand as
4 well as an electronic copy.

5 **MS. BEHLING:** Okay, very good. Can you hear me all
6 right?

7 **MS. MUNN:** You're fine.

8 **MS. BEHLING:** Okay, very good. Yeah, we will start
9 with the information that John just passed around.
10 This is actually screen views of the Access database
11 and I felt that this would give everyone a better
12 understanding of how we're entering this data, what we
13 can do with the data, how we can sort things and also
14 for NIOSH's purposes although they may be more
15 familiar with this than some of the rest of us, this
16 is how we're going -- this is the format and the
17 information the screens that we're going to be using
18 to actually enter the data. And page one of the
19 information that John just sent to you and that I also
20 electronically format -- forwarded to you is the main
21 form summary screen that comes up. And I'll just
22 briefly walk you through and bear with me for those of
23 -- those of you who have a better understanding of
24 Access, but this first screen is the main form that
25 opens when you open up the Access database that we

1 have created. And if you look to the left, upper left
2 side, underneath the exit button there are three tabs.
3 And the first tab is the summary tab and that's what's
4 open on your main screen. And this is actually our
5 rollup table and you'll see obviously the first column
6 is our finding date and procedure number, finding
7 number and page number in the third column. Then we
8 have our rating in the fourth column and our procedure
9 title and then the status. And you can go into any
10 one of these columns, highlight that column, do a
11 right click and you can sort that column ascending,
12 descending, you can do filtering on these columns. So
13 I -- for the purposes of this demonstration I sorted
14 everything by procedure number. So you see the first
15 page of the summary sheet. Now, in this particular
16 instance when you first open it up we're only looking
17 at anything that is not closed; opened items,
18 transferred items, items in abeyance. If we wanted to
19 also include on this summary sheet closed items; if
20 you go more to the upper middle portion of this screen
21 you see a print summary, a detailed -- a print detail
22 and underneath there, there is a box called include
23 closed issues. And if you check mark that box this
24 screen will change and include all of your closed
25 items also. So we have the option of including them

1 or not including them.

2 **DR. WADE:** Kathy, this is Lew Wade. Just a trivial
3 point but in my first sheet I see closed items appear.
4 So maybe this is the full -- the full? Correct?

5 **MS. BEHLING:** Um, yeah, I see closed items on there
6 too and --

7 **DR. MAURO:** Kathy I --

8 **MS. BEHLING:** Actually I have my Access database open
9 and I'm looking from on my screen and I do not have
10 that check marked and the closed items are not on
11 there. Perhaps when I made a copy of this screen I
12 had opened up the closed -- I will -- I will check on
13 that but I'm -- I'm sure because I'm actually looking
14 at my database on my screen as opposed to the
15 documents that you're looking at. But you're correct;
16 there are closed items on there. They should not be
17 on there because that check mark is not in that closed
18 issues box so I apologize for that.

19 **DR. WADE:** Computers, you can't live with them; you
20 can't live without them.

21 **MS. MUNN:** This is true. Kathy, this is Wanda. There
22 are checks next to each one of the listed procedure
23 numbers.

24 **MS. BEHLING:** Okay those are actually -- those are
25 little arrows, they are -- and if you click on that

1 arrow that opens up a dropdown box.

2 **MS. MUNN:** Oh, all right.

3 **MS. BEHLING:** Okay, so it's not actually a checkmark.
4 That's a dropdown box and in fact I was going to get
5 to that a little bit later as you see on the three
6 tabs at the top we have summary, details and then
7 procedures. And when we enter a new procedure and
8 we're going to be adding findings for new procedures,
9 you first of all enter it into that tab and we'll get
10 to that a little bit later and then that procedure
11 becomes part of that dropdown box. So it makes it a
12 little bit easier. In fact as you're typing the
13 procedure number in there it tries to anticipate what
14 procedure you're going to be -- and it sort of fills
15 out that line for you in advance. But yeah I see on
16 your hard copy here there are some closed items here
17 and I didn't mean to add confusion to this but there
18 should not be any closed items on this first -- this
19 first screen because that include closed issues is not
20 check marked and I do apologize for that confusion. I
21 guess, okay we can move on, and obviously all the way
22 to the right you have your scroll bar and you would
23 just scroll down through there and as you see at the
24 bottom this is -- we're looking at the very first item
25 there is one of two hundred and fourteen -- no, no, no

1 that's my screen -- is three hundred and seventy-six
2 findings and procedures and procedure type findings
3 that are identified at the bottom of your -- of that
4 first screen. And so if you scroll down you could see
5 each one of those three hundred and seventy-six line
6 items. And if we go on to page two --

7 **MS. MUNN:** Before we leave Kathy --

8 **MS. BEHLING:** Okay, I'm sorry, go ahead.

9 **MS. MUNN:** There under finding number and page number,
10 I'm assuming the page number is the page of what is
11 going to be the new current document, or is it a
12 reference back to the older --

13 **MS. BEHLING:** No, this is actually the page number
14 from the hard copy report that we submitted to you.

15 **MS. MUNN:** Okay.

16 **MS. BEHLING:** Okay. And I should also explain that
17 the finding date here is actually the date of the
18 report that we submitted to you. So in other words
19 our first set report was sent to the Board on January
20 17, 2005.

21 **MS. MUNN:** Right.

22 **MS. BEHLING:** So all procedures and findings that were
23 associated -- associated with the first set will have
24 that date in the first column. The second set was
25 June 8, 2006, and the third set was October 29th,

1 2007, I believe.

2 **MS. MUNN:** Right, yeah we agreed that that would be
3 the better way to do it so we could keep track of
4 which set we were --

5 **MS. BEHLING:** That's right. That's right. And in
6 fact and I'll get to this also later, we can sort and
7 print by just a date range which is the screen --
8 which is the selection at the top which will allow us
9 to separate out all of these different sets. And with
10 things such as addendums that we have included such as
11 our PROC-0092 addendum that came in on -- or that we
12 submitted to you I believe on September 20th, 2007. So
13 all of the findings associated with like a PROC-0092
14 will have that 9-20-2007 date associated with them.

15 **MS. MUNN:** Which brings me back to the page number
16 issue.

17 **MS. BEHLING:** That page number is the page number in
18 that hard copy document.

19 **MS. MUNN:** And are those page numbers not likely to
20 change from time to time as we add new information?
21 No?

22 **MR. HINNEFELD:** No --

23 **MS. BEHLING:** No --

24 **MS. MUNN:** Stu's shaking his head no.

25 **MR. HINNEFELD:** It's their published report that they

1 submitted that's the PDF or hard copy review of the
2 procedures, you know, very first set, the next one was
3 called the second set was called supplemental; it's
4 that hard copy report that they submitted. It's
5 really nothing that we've generated in this workgroup.

6 **MS. MUNN:** And we are not likely to be seeing addenda
7 to those reports -- that's my --

8 **MR. HINNEFELD:** Addenda would be a new date -- a new
9 dated report and any findings in the addenda then
10 would carry that finding date and so that would
11 essentially be a new product; is that right?

12 **MS. BEHLING:** Yes. That's right. Thank you.

13 **MR. HINNEFELD:** Sorry, they should do this talking.

14 **MS. BEHLING:** No, no, I appreciate it. And --

15 **MR. HINNEFELD:** Later on I'm supposed to talk.

16 **DR. MAURO:** We weren't sure.

17 **MS. MUNN:** We all have to understand this. And so if
18 we had an addenda to say well since we're looking at
19 IG001, if we had an addendum to that then it would
20 appear --

21 **MS. BEHLING:** In fact that's a good -- that's a good
22 example. Let's look at IG001, Rev. 1, the very first
23 line. That finding date which is as I said January
24 17th, 2005, was our first set and we had on page
25 twenty-four of that report it describes our finding

1 IG00101. Now it just so happens that, that particular
2 finding, the resolution for that finding was that
3 NIOSH was going to revise that -- their implementation
4 guide and when they revised that implementation guide
5 we were going to review that and to ensure that, that
6 finding was resolved in the revision. Now if you go
7 down to the date of 10-29-2007, you scroll down a
8 little bit further, it's actually the last OCAS-IG001
9 Rev. 2 under the finding number there again we have
10 IG00101 and then that's on page thirty-one of our
11 report submitted on the October 29th and that is a
12 review of that first finding. We reevaluated that
13 finding under our second set -- our third set of
14 procedures. Now I don't anticipate us putting any
15 additional information into our submitted reports like
16 our January 17th report; if anything needs to be
17 carried over it will be picked up in another report
18 most likely. That's at least how I -- I don't see us
19 adding a lot of new information to existing reports
20 that have been published.

21 **MS. MUNN:** My concern was being able to easily follow
22 this through as we build a larger and larger library
23 of closed items. And to, one of the advantages I had
24 perceived originally in having this listed as alpha
25 numeric order that would make it easier to pick up

1 each of the separate findings.

2 **MS. BEHLING:** Were you anticipating that our third
3 column, the finding number and the page number would
4 actually be a page number associated with the detailed
5 list? Is that what I'm understanding? In other words
6 are you expecting that the page number would be a page
7 number that we would go to directly in the more
8 detailed individual -- where there's a finding on each
9 individual sheet which is the next sheet I'm going to
10 talk about.

11 **MS. MUNN:** John?

12 **DR. MAURO:** Yeah, I'd like to help out a little bit.
13 I think what's happening here is we're looking at the
14 colored six page overview of the Access program. And
15 this is really like the table of contents or the
16 scroll up type of form. Now you're posing questions
17 that go into the bowels of the big thick package. So
18 eventually when we get each one of the findings, every
19 single finding associated with every single procedure
20 review has its own page. And in that page is all of
21 the information in a historical sense that has
22 unfolded at each and every workgroup meeting. So the
23 really the depth -- the in-depth details of everything
24 that has transpired is not contained -- you know it's
25 contained deeper into the program one of the -- in

1 fact if you folks got the four files, the second file
2 that was up there, I think the second or third file
3 was a very large file. That there was one page for
4 every one of the findings and I think the kinds of
5 questions we're talking about now regarding the fine
6 structure of the resolution of the issue that's where
7 it would be contained. Now whether or not you could
8 go -- Kathy, the only question I have is if you wanted
9 to go into that starting with the cover pages are
10 there -- in other words, is this nested where you
11 start with these cover pages, these one through six or
12 one and if you wanted to track into and let's say into
13 some particular issue that -- or finding under a
14 particular procedure is that something that you would
15 -- you could actually go to from this first page, page
16 1 on the roll up or you don't do that?

17 **MS. BEHLING:** Yes.

18 **DR. MAURO:** Yes you can?

19 **MS. BEHLING:** Yes --

20 **DR. MAURO:** Okay.

21 **MS. BEHLING:** In other words if we scrolled down to
22 any of these items if we went to the last item that
23 you can view here on your screen and you would
24 highlight that item and then we would -- or just put
25 your cursor let's assume we put our cursor in the last

1 item on your sheet here which is IG00105, I guess it's
2 on page thirty-two and again this is page thirty-two
3 of our hard copy report when if you put your cursor
4 anywhere in that row and you hit the details form --
5 okay, yeah, I'm on my -- I'm on my screen here again,
6 okay.

7 **DR. MAURO:** So where -- I think some of us are on the
8 screen and some of us are on hard copies.

9 **MS. BEHLING:** Yeah, I will pull that screen right up
10 but obviously you're not -- yeah, you're not -- you're
11 not working from that. But when you're on -- in the
12 Access database yeah, you can go -- you can go
13 directly to that detailed stamp and fill in that
14 information. Now with what you're going to be looking
15 at is a PDF file. And I think what Wanda -- okay I'm
16 -- now I'm starting to understand what's going on
17 here. I think what Wanda would prefer and correct me
18 if I'm wrong Wanda, you want that page number in that
19 third column to actually represent the page in the
20 detailed section, that thick section that -- and as
21 you said as things close that may change. So you
22 don't want this page number necessarily to represent
23 the hard copy report that we send to you? Is that
24 correct?

25 **MS. MUNN:** I'm just trying to think ahead and I don't

1 want to complicate things. I may be asking too many
2 details for where we are right now.

3 **DR. MAURO:** I --

4 **MR. HINNEFELD:** What do you want to accomplish, Wanda,
5 when you're talking about page number or tracking
6 something all the way through and the addendum?

7 **MS. MUNN:** I want to be very sure that after -- that
8 because we do so much work after the original report
9 occurs, I want to be sure that I can tell in our roll
10 up where I need to go in the archives to find the
11 current status of that specific item. And, Paul?

12 **DR. ZIEMER:** This is Ziemer. I think probably it
13 would help if you identified in this column that it's
14 the page number from the original SEC report -- or
15 SC&A report as opposed to a page number in the roll up
16 documents. Is --

17 **MS. MUNN:** Yeah, that really -- I guess you're getting
18 --

19 **DR. ZIEMER:** So, the page number here, that's the page
20 number in your report on that review. So if -- it's a
21 page number from SC&A review reporter something to
22 clarify, and then later on I guess you could have a
23 page number in the matrix or however Kathy thought it
24 should be identified.

25 **MS. MUNN:** Or addendum --

1 **DR. ZIEMER:** But could I ask one other question and
2 sorry I came in late but do we have the interactive
3 Access database available? Is it on the website or is
4 it on the O-Drive?

5 **DR. MAURO:** Must be on the O Drive.

6 **MR. HINNEFELD:** We got actually PDF first.

7 **DR. ZIEMER:** Well the PDF, you can't do anything.

8 **MR. HINNEFELD:** Right. That's what I'm saying is I've
9 not seen the actual database.

10 **DR. ZIEMER:** I got from Kathy just a Word copy which
11 is not interactive.

12 **MR. HINNEFELD:** Right.

13 **MS. MUNN:** Yeah, Kathy at this point I think is just
14 trying to explain to the -- how it's going to work.
15 We don't have access to it yet.

16 **MS. BEHLING:** Yeah, in fact that was going to be my
17 -- I was going to ask that question as a concluding
18 question. How we're going to -- where we're going
19 to put this information, and give you some of my
20 thoughts. I guess the other thing that I'm
21 thinking here is because I've sorted this summary
22 page by procedure number, when you go to the detail
23 -- when we go to the details list I've also sorted
24 that by procedure number. So if we're on line five
25 -- let's say if we drop down five lines here on our

1 what I sent to -- or yeah, what I gave you on this
2 summary, we would be at IG001-16 page forty-eight
3 of our SC&A report and page five of our -- of the
4 detailed PDF file that I sent you would represent
5 that particular finding.

6 **DR. MAURO:** Could I step back just a bit? When we
7 first initiated this process where we were trying
8 to come up with a table; if you remember one of our
9 workgroup meetings we got up there, we put up a
10 sheet of paper, we started drawing saying is this
11 what you'd like? And we started to zero in on a
12 particular form -- format. But we also realized
13 there's a lot of different ways you might want to
14 cut it because there's lots of information and
15 you'd like to be able to package it many different
16 ways and we realize that right now we might pick
17 this format, might be useful to us but at some time
18 in the future we may want to cut it another way,
19 you know, and look at the data. So what happened
20 was in order to be as flexible as possible given
21 that we're in a situation on how we'd like to
22 package our reports, package our material, we
23 elected to go with the Access database because that
24 allows you to do just about anything you want. Now
25 the question I guess I have now is now that we've

1 built the Access database, it's off, it's running,
2 we've got it, we've loaded it. It was never my
3 impression that the Board would want to unless they
4 chose to use the Access database. It was really my
5 understanding that all of the data would be
6 accessible by SC&A, would be accessible by NIOSH to
7 load it, to update it because it's a living process
8 every -- just before we come to such meetings.

9 **MS. MUNN:** All right.

10 **DR. MAURO:** Stu and his folks are going to be
11 loading up data, we're loading up data but in the
12 end we're going to come to the room with a stack of
13 paper, okay? Or on an electronic version to avoid
14 the stack. But it was not I guess my original
15 vision that everyone on the Board would be sitting
16 at the Access machine and doing all the magic that
17 you can do with Access. But if that's what you
18 want we could -- well it's going to be a learning
19 process as you can tell.

20 **MS. MUNN:** I don't believe it is the expectation of
21 anyone on this workgroup to be actually
22 manipulating the database themselves.

23 **DR. ZIEMER:** I don't think we should have the
24 ability to change anything in the database. That
25 should be reserved for either NIOSH or SC&A but

1 certainly if you want to click on an item and look
2 at either the history of it or whatever it seems to
3 me you've got to have access otherwise -- Otherwise
4 you don't want to print out every page.

5 **MS. MUNN:** No.

6 **MR. ELLIOTT:** I think in Access you can affect a
7 read only authorization --

8 **DR. ZIEMER:** Yeah.

9 **MR. ELLIOTT:**-- versus a read and edit. So maybe
10 you want to -- we could have I don't know maybe
11 Kathy knows how to do this but if not we could
12 have one of our -- we have an Access person too,
13 might help.

14 **DR. ZIEMER:** Or at least make it available on the
15 O-Drive or somewhere where we could look at it if
16 we wanted to look at particular -- otherwise
17 there's a lot of sub information that doesn't
18 show up unless you're going to print out all of
19 that which seems to me to me to be --

20 **MR. HINNEFELD:** I would think the Board would
21 want to be able to --

22 **DR. MAURO:** It's going to take some time; in
23 other words you can tell by the conversation that
24 you know yeah it's like learning some new
25 software. You're going to learn how to navigate

1 your way through it but it's certainly doable.

2 **DR. ZIEMER:** Now you may want to have just a hard
3 copy summary for a public meeting.

4 **MR. HINNEFELD:** Right, yeah.

5 **MS. MUNN:** My sense is we're getting way ahead of
6 Kathy and that she probably has thought of most
7 of these --

8 **MR. HINNEFELD:** Kathy, this is Stu, I have one
9 quick question. When you were talking about
10 finding the detail for a particular finding you
11 said you put the cursor on that row and hit the
12 details button; is that a details button that
13 shows which -- is that a button that I can see on
14 this hard copy?

15 **MS. BEHLING:** That's where I'm going next.

16 **MR. HINNEFELD:** Okay.

17 **MS. BEHLING:** If I can move on then maybe we can
18 address all of these issues at once, but yes in
19 fact page two of what John handed out is the
20 details button.

21 **MR. HINNEFELD:** Oh okay, it's a tab. All right.

22 **MS. BEHLING:** It's a tab.

23 **MR. HINNEFELD:** Perfect.

24 **MS. BEHLING:** And so I agree with everything
25 that's been said so far. It was my intention, I

1 was going to suggest that we would put this
2 database out on something like the O-Drive in the
3 advisory board folder and it's my understanding
4 from the person that developed this database for
5 us he can put out a read only file and he can
6 also put a file out for both SC&A and NIOSH to
7 use and what -- it's my understanding that if we
8 were both be using it at the same time, provided
9 we're not on the same record when we both save
10 that information everything will be captured.
11 However if let's say Stu and I were both in the
12 same record if Stu got into that record first and
13 I went to get into that same record it would tell
14 me there's another user that is making changes to
15 this record and I couldn't make any changes until
16 that was completed. So that's one of the nice
17 aspects I believe with this Access database. And
18 so I definitely think that it would benefit the
19 Board members to be able to look at the Access
20 and that's what I was trying to show you on each
21 of these screens. The summary, you can scroll
22 down that summary, put your cursor on any one of
23 these rows and then when you hit that details
24 screen as you see on page two of what I've sent
25 to you, the details screen is now highlighted and

1 the screen that we're looking at is all of the
2 information that we wanted to capture here I
3 hope. If there's something we've missed, please
4 let us know. And what is -- what was included in
5 here is again their procedure number and the Rev.
6 numbers, finding and a page number, page number
7 again associated with the hard copy, a rating and
8 then we have, you know SC&A has the checklist and
9 we have the review objectives that means
10 something to us. So they've included for
11 internal use when we initially load this
12 information that we do have the option of putting
13 that review objective in there. However, it does
14 not as you saw come up on your -- on the summary
15 screen, it's not necessarily something that the
16 workgroup felt that they needed to have to sort
17 on. But we did include it just for SC&A's
18 purposes. And then alongside of there you have
19 your procedure number and again your status in
20 this -- in -- at least the one I pulled up it's -
21 - or the one I sent to you is -- is transferred
22 and it's transferred to the global issues portion
23 of our review. Here again we have now our
24 initial finding date, SC&A's finding date and a
25 description of the finding and then NIOSH's

1 initial response and we have a -- a slot for in -
2 - you know putting in their input. Now at the
3 bottom portion of the screen that you see in blue
4 this shows what transpired at the workgroup
5 meeting and the example I gave you is from our
6 October 2nd workgroup meeting. We have our
7 discussion area and then any directives that were
8 given by the workgroup. Now if there were
9 follow-up's we would -- we could put those in --
10 an SC&A follow-up or a NIOSH follow-up we have a
11 date and we would write in there what happened as
12 a res -- after that meeting. And if you go down
13 to the bottom right now you'll see one of one.
14 For the next workgroup meeting what -- for the
15 information that we're going to put in for the
16 next workgroup meeting we just either hit that
17 button or type a two in there and then just that
18 blue portion of the screen changes and now we'll
19 enter whatever we talked about in today's meeting
20 and we'll have our workgroup information from
21 today's meeting and so when this actually -- when
22 this particular -- if we were to add a second
23 record to the bottom of this when this gets
24 printed in PDF it would all be on one page but
25 you would just have your first workgroup then

1 your meeting information, your second workgroup
2 meeting information but on this screen you're
3 only going to see the most current -- you can go
4 back and forth but -- but to get to the -- your -
5 - your next record for the next workgroup meeting
6 you would just select two of two and it could be
7 three of three but when it's printed it should be
8 all printed on one page.

9 **DR. MAURO:** Kathy, if I can jump in by way of
10 looking at this for the first time since it's
11 been evolved from the hand drawing on the screen
12 here, I think it --

13 **MS. MUNN:** It looks nicer now.

14 **DR. MAURO:** It looks nice here doesn't it? But
15 the fundamental theme here is -- and -- and
16 correct me if I'm wrong Kathy is ultimately what
17 we have is for -- for every finding, you know we
18 may have thirty procedures we reviewed in one of
19 these big three ring binders and every procedure
20 has maybe six, seven, eight findings. Well we
21 have built something here that says there's going
22 to be one page dedicated to each finding. So
23 what we're looking at on -- if I'm correct on
24 page two is an example of one procedure, one
25 finding and the fundamental format is in the

1 upper gray part, that's sort of the stuff that
2 happens before the first workgroup meeting. In
3 other words, you wrote a report -- SC&A wrote a
4 report, in that report it says SC&A finding and
5 there's a date under there, 6-8-2006, that's in
6 the gray area on the left and we write down what
7 our finding is and that just comes right out of
8 the big thick three ring binder report. Then
9 right beneath that, you know after we deliver the
10 hard copy report and we make -- we make the
11 matrix like the old matrix we used to have, we'd
12 have a little column, it's an SC&A finding. But
13 then what happens is we send it off to Stu. Then
14 Stu says yeah, we're going to -- we're going to
15 respond to that and then the next thing, right
16 underneath it you see it says on the left-hand
17 side in the gray region, NIOSH and there's a
18 response and there's a date, well that's when Stu
19 filled in his information. And originally in the
20 old one remember that was in there. But then --
21 and then we really have sort of set the base, all
22 right, now we're off and running. We've got
23 ourselves our finding, we've got SC&A's finding,
24 we've got NIOSH's response. Then we have our
25 first meeting, okay. And the whole purpose for

1 doing it this way is that one of the things that
2 we were concerned about at the last meeting when
3 we talked about this is we were not able to track
4 things by workgroup meetings. Now what we have
5 is the blue section and that really is the new
6 change when you say what are we doing differently
7 now by way of packaging information, and that
8 blue section is just going to keep stacking up.
9 If we have five meetings there's going to be a
10 workgroup meeting date. There's going to be one
11 for this meeting, you know, and there will be one
12 for the next meeting. So for every single issue
13 now that's why things are so bulky, every single
14 issue is going to have this historical stack of
15 workgroup meetings that just keep extending until
16 we reach the point where in the upper right-hand
17 corner it says closed and that's it. And then --
18 but that -- that becomes a record, a historical
19 record of everything that ever happened to get to
20 the point where we closed that issue.

21 **DR. WADE:** Towards -- towards the issue of
22 everything John, let's say that on an issue NIOSH
23 writes a white paper and then SC&A critiques that
24 white paper. Now we have intellectual
25 information. How is that captured? Where is

1 that --

2 **DR. MAURO:** I have to say -- I don't know.

3 Kathy, did you give any thought to that or how
4 that would be done if we have like a ten page
5 white paper that's either issued by NIOSH or by
6 us dealing with one particular issue, where is
7 that captured?

8 **MS. BEHLING:** Well the actual document itself I
9 don't know where we would capture that. That's -
10 - we can discuss that. Where I would enter it
11 into this database is in that blue section let's
12 say SC&A was asked -- was tasked with writing a
13 white paper, I would put the date of our white
14 paper and I would write in the portion alongside
15 of it, SC&A submitted a white paper and give the
16 file name, something like that. Now for actually
17 attaching the file to this record I hadn't given
18 that a lot of thought.

19 **DR. WADE:** One of the powers of a database like
20 this is that you can have those active links.

21 **MS. BEHLING:** Yes.

22 **DR. WADE:** I think we --

23 **DR. ZIEMER:** You can do exactly that.

24 **DR. MAURO:** We could -- click on it and then
25 bring you to it.

1 **DR. WADE:** So I mean that's some -- to complete
2 this I think that's something that you need to
3 give some thought to.

4 **MS. BEHLING:** Okay, that's a very good idea.

5 **DR. WADE:** One of the trivial questions from an
6 old life of my -- from a license point of view,
7 who will have the license that will cover the
8 people that use this? Do we do that? Does SC&A
9 do that? Have we thought through that?

10 **MR. ELLIOTT:** We have an Access license.

11 **MR. HINNEFELD:** Most users of Office have Access.

12 **DR. ZIEMER:** You -- you have to have the Access
13 program on your computer to use it I believe.
14 And that's --

15 **DR. WADE:** So the individual user would --

16 **DR. ZIEMER:** That's like Microsoft Word, you
17 either buy it or you get it under some license.

18 **DR. WADE:** So the individual user would come with
19 a licensed version of the program?

20 **MR. ELLIOTT:** Yeah.

21 **MR. HINNEFELD:** Yeah.

22 **DR. ZIEMER:** We may have to provide the license
23 version for the Board members.

24 **DR. WADE:** Right, we might have to do that but we
25 can do that offline. I just wanted to make sure

1 how we --

2 **MR. ELLIOTT:** This is a very powerful software,
3 it's actually --

4 **MR. PRESLEY:** How big is this? Do I really want
5 this on my computer?

6 **MR. ELLIOTT:** Well it -- you know, it's as big as
7 it'll get. It's as big as you'll build it. But
8 it's a very powerful software program and it was
9 the same software program we used to start our
10 NOCTS tracking system which we -- you're able to
11 then convert into SQL if you want.

12 **DR. MAURO:** No worries.

13 **DR. ZIEMER:** It's not big compared to pictures.

14 **MR. ELLIOTT:** No.

15 **MS. MUNN:** But the -- the -- I -- I in the past I
16 personally have avoided Access because for a
17 couple of reasons. A few years ago it had a
18 large number of bugs and I just stayed away from
19 it. But it's a -- obviously going to be a
20 powerful tool. Frankly when we first looked at
21 the pretty pictures that John and Arjun had drawn
22 for us there was some concern with respect to how
23 this material was going to stack up on the page.
24 I certainly was concerned about how many pages we
25 were going to have regarding each individual

1 item. But now that I see it, this second page
2 here I can see that having each date's
3 description of what transpired will be -- it's
4 very easy to get to exactly where you want it to
5 be.

6 **DR. MAURO:** The reason we came to this -- to this
7 approach was we were doing things in landscape.
8 And the columns were getting lots and lots of
9 columns.

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

11 **DR. MAURO:** And one column would end up having
12 four pages going like this, you know, so this is
13 the way to avoid that, you know.

14 **MS. MUNN:** Right.

15 **DR. MAURO:** So now we're in portrait when we get
16 to the workgroup meetings.

17 **MS. MUNN:** Let's -- unless someone else has
18 something really cogent let's let Kathy go on
19 with where we are here.

20 **MS. BEHLING:** Okay. We covered the two main
21 screens now and if you go to page three this is
22 the third tab that I mentioned earlier, the
23 procedures tab. And this is simply -- it's --
24 it's a means of entering a new procedure number.
25 This just identifies -- it doesn't identify the

1 finding, it is just identifies the procedure
2 number in order to make it available to the drop
3 down box, and as you can see here I think there's
4 about ninety-five procedures that have been added
5 and before it becomes available on that dropdown
6 box either in the summary screen or the details
7 screen it has to be added here. So this is
8 something that's more of an internal -- it just -
9 - it would be most likely SC&A that would be
10 using this screen but I just wanted to make you
11 aware of what that tab represented.

12 And if we go on then to page four, this is
13 actually how I generated the other documents that
14 I sent to you, the PDF files. As you see in the
15 top -- at the top in the center there's a print -
16 - a gray print summary button and that obviously
17 if I select that button without a checkmark in
18 the include closed items -- include closed items
19 I will get everything in that roll up table or
20 that summary table and it -- when I -- it will
21 open up that file for me and then I print that to
22 a PDF file. Same with the gray button alongside
23 of it, print details. Now that's a print details
24 all button meaning I'll either print all of the
25 details that are out there that are still open,

1 transferred or in abeyance or if I check mark
2 that include closed items I can print all details
3 including the closed items.

4 **MR. MARSCHKE:** Kathy going back -- Kathy this is
5 Steve Marschke. Going back to the first sheet
6 where we had that question about the closed
7 items.

8 **MS. BEHLING:** Yes.

9 **MR. MARSCHKE:** This include closed items check
10 mark that doesn't -- I believe that, that only --
11 it has functions on the print and not on what is
12 displayed on the screen. Is that correct?

13 **MS. BEHLING:** No.

14 **MR. MARSCHKE:** No?

15 **MS. BEHLING:** It is supposed to do both.

16 **MR. MARSCHKE:** Oh, okay.

17 **MS. BEHLING:** It is supposed to do both. Include
18 closed -- closed issues is supposed to both --
19 because in fact as I said I'm looking at it on
20 the screen and it -- in my summary sheet I'm not
21 seeing any closed items but when I check mark
22 that box the closed items open up. But they're
23 not there when I uncheck that box. I don't know
24 how that first screen -- so no, it functions both
25 on -- on the screen and what is being printed.

1 **MR. MARSCHKE:** Okay.

2 **MS. BEHLING:** Okay. If we go -- and if we move
3 on then to page five --

4 **DR. ZIEMER:** Question.

5 **MS. BEHLING:** -- to the last page here -- oh no -
6 -

7 **MS. MUNN:** Kathy, wait a minute, there's a
8 question.

9 **MS. BEHLING:** Oh I'm sorry, go ahead.

10 **DR. ZIEMER:** Just a question. If you do a
11 printout does it automatically assign a current
12 date to the printout so that you know how current
13 it is?

14 **MS. BEHLING:** That's -- yes, in fact I'm glad you
15 asked that question. When you select that gray
16 button that says print summary or print details
17 the first thing that comes up on your Access
18 screen is it says footnote and it allows you in
19 fact on the PDF files that I sent you, you'll see
20 a footnote, you'll see the page numbers, that's
21 automatic, but you'll see a footnote where I put
22 SC&A dash December 7th 2007. So it allows you to
23 put a footnote in so that we can put in the date
24 that we've made -- that we've -- we've created
25 that -- that print.

1 **MR. HINNEFELD:** So it's not automatic? It's not
2 automatic but it's possible?

3 **MS. BEHLING:** It's not automatic but it allows
4 you to put that footnote in; yes.

5 **DR. MAURO:** So Kathy, does that mean that if I'm
6 sitting at my machine and I decide to print out a
7 hard copy to using this tool it -- I would -- I'd
8 have the choice of giving it any date I want.
9 Now everyone using this can do it and put in
10 there whatever date I -- eventually though --

11 **DR. ZIEMER:** We don't want them to be able to do
12 that.

13 **DR. MAURO:** Right, that's where I'm going. Yeah.

14 **MS. BEHLING:** That's -- that's correct. See
15 again and I -- I agree with you John. I
16 envisioned this Access database to just be
17 something used by Stu and myself or you know --
18 you know NIOSH whoever's going to input the data
19 and SC&A whoever's going to input the data and
20 not everyone out there making changes. But
21 you're -- you're correct, we can -- we could
22 probably try to automate that based on when you
23 print that it -- it automatically prints the --
24 the current date but what I was trying to do was
25 make it very clear for the workgroup to

1 understand this is the last time that SC&A
2 updated this database or it's the last time that
3 NIOSH updated this database. We can make any
4 changes you'd like there but currently it is
5 something that -- it -- like I said a footnote
6 screen comes up, you type in like I did SC&A and
7 the date and now you know that this is the last
8 time that SC&A updated this database.

9 **MS. MUNN:** But wouldn't you -- wouldn't you want
10 that more on the details sheet rather than on the
11 summary sheet?

12 **MS. BEHLING:** It will be on both. If I hit the
13 print summary I'll get a footnote screen and I
14 can put my date on there and it'll be at the
15 bottom of each page. If I hit the print detail
16 button it -- and I put that same footnote in it
17 will show up on each page of the detailed report.

18 **MS. MUNN:** Right. Okay actually I don't see any
19 difference between page one and page four that we
20 have in our printout except the check and the
21 include closed issues. Yeah, it looks to me like
22 the same thing.

23 **DR. BRANCHE:** It is.

24 **MS. BEHLING:** Oh, it is.

25 **MS. MUNN:** Very good. Just checking.

1 **MS. BEHLING:** Yeah, that is the same thing. All
2 I was trying -- I guess on mine I circled the
3 print button just to -- and I -- in that one
4 there is a check mark under the include closed
5 issues on page four.

6 **MS. MUNN:** Correct. Right.

7 **MS. BEHLING:** And so that does show you the
8 closed items but unfortunately page four --
9 (Sound on telephone connection)

10 **MS. MUNN:** Oh my.

11 **DR. BRANCHE:** For those of you who are -- this is
12 Christine Branche -- for those of you who are not
13 speaking if you had the opportunity -- ability to
14 mute your phone it would be very helpful.

15 **DR. WADE:** Whatever that was. Poor baby.

16 **DR. BRANCHE:** This is Christine, I just -- as --
17 as a -- as an observer of this discussion, is
18 there some utility in having the fixed
19 preparation date that either NIOSH or SC&A would
20 have full up only -- only opportunity to alter
21 versus a printing date and have two dates and you
22 would say the print date?

23 **DR. ZIEMER:** I believe there is because each of
24 the items could have different dates on them
25 depending on when NIOSH or SC&A dealt with those

1 items.

2 **MS. MUNN:** Yeah.

3 **DR. ZIEMER:** You don't want a whole bunch of
4 different dates on your printout. I mean, in the
5 columns you might have that but seems to me the
6 printout date is still important so that you know
7 --

8 **DR. BRANCHE:** So in other words whenever --
9 whatever date is on the computer of the person
10 that printed it that would -- that would happen
11 but it would -- but would be unaltered except for
12 by SC&A or NIOSH staff would be the date that
13 Kathy already has that she provided in what we
14 printed out in the -- in the --

15 **DR. MAURO:** It seems to be -- my main concern has
16 been in the past is when we'd get together and
17 we'd have these hard copies and -- and -- and
18 we're into our third or fourth workgroup meeting
19 where sometimes we don't -- we didn't always have
20 the same version.

21 **DR. ZIEMER:** Same version.

22 **DR. MAURO:** We had a different date, and the only
23 way we knew whether or not we were all on the
24 same page is by looking at the date. So what we
25 want to do is create a tool so that when we do

1 sit around the table and we are all looking at a
2 screen we could very quickly determine are we all
3 on the same page working from the same form with
4 the same date. Now I think that maybe the trick
5 is you know before the meeting when -- when NIOSH
6 and SC&A are assembling this and making sure it's
7 all filled out as current as we could make it
8 just like last week and then we show up at this
9 meeting the key would be to make sure that --
10 that we date it but the -- the date would be such
11 that it would be indicative to know for sure that
12 everyone is looking at the same thing and that
13 date becomes the form that we work from for this
14 workgroup meeting.

15 **MR. HINNEFELD:** It's probably a good idea to have
16 an official print --

17 **DR. MAURO:** Yes.

18 **MR. HINNEFELD:** -- for the work for use at the
19 work group. We'll just decide you know between
20 us.

21 **DR. BRANCHE:** And you can date that.

22 **DR. MAURO:** Date that.

23 **MR. HINNEFELD:** We'll print and date on an agreed
24 to date.

25 **DR. MAURO:** Right.

1 **MR. HINNEFELD:** And then that will be the version
2 that will be talked about at the next workgroup.

3 **DR. MAURO:** Do you envision that we would be
4 sitting with the hundred and fifty pages of these
5 forms?

6 **MR. HINNEFELD:** Oh I would hope not. I would
7 hope we would print anything that's got you know
8 information added to it.

9 **DR. MAURO:** Okay, now what -- what I'm getting at
10 is, are we going to be working from hard copy or
11 you think we'll all be sitting at our terminal?

12 **MS. MUNN:** I would suggest that we consider
13 printing only the --

14 **DR. MAURO:** Open items.

15 **MS. MUNN:** Printing only open items or
16 alternatively printing only the rollup.

17 **DR. MAURO:** The rollup, okay.

18 **MS. MUNN:** If we know what version of the rollup
19 we're dealing from then we're working with the
20 knowledge that anything that has been changed is
21 shown to us in the final version of the workup --
22 the rollup that we're using that day.

23 **DR. BRANCHE:** That issue is the -- I'm sorry
24 again, but that issue is absolved if the only
25 people who have the opportunity to alter the date

1 is NIOSH or SC&A.

2 **MS. MUNN:** Correct.

3 **DR. MAURO:** And we're working on it the week
4 before so --

5 **DR. BRANCHE:** Everybody only has a read-only -- a
6 read-only opportunity.

7 **MS. HOWELL:** But can't you print?

8 **DR. MAURO:** Again?

9 **MS. HOWELL:** I just am wondering if the Board
10 members print their own copies and they don't
11 have the opportunity -- you still need an
12 automatic date stamp to show up because you're
13 still going to have multiple versions.

14 **MR. MARSCHKE:** You need a date stamp of the -- of
15 the -- of the date of the -- of the Access file,
16 the data file. I think that's more important
17 actually than the date that you printed it on.
18 You need a -- you need to print out the date
19 stamp of the data file so that you know that
20 you're working from the same data file because I
21 can print it on Tuesday and somebody else can
22 print it on Monday but if they're printing from
23 the same data file they should be identical. So
24 really the date that you print it on really
25 doesn't matter but it's the date that -- of the -

1 - of the -- of the data file that is -- that is -
2 - that should show up somewheres (sic) on the
3 hard copy.

4 **DR. WADE:** And that date should represent the
5 date of the last change.

6 (multiple speakers)

7 **DR. BRANCHE:** But that currently is what has been
8 organized.

9 **DR. MAURO:** That's what we're doing.

10 **DR. WADE:** That's all you really need is the date
11 of the last change if people could print that
12 date if you want and print.

13 **MS. BEHLING:** We can automate that.

14 **MS. MUNN:** That would be great.

15 **MS. BEHLING:** Okay.

16 **MS. MUNN:** Thanks.

17 **MS. BEHLING:** Okay.

18 **MS. MUNN:** Kathy?

19 **MS. BEHLING:** All right and I guess on page five
20 what I was trying to show you here is the -- the
21 gray button at the top again, this is a print
22 button, details for selected procedures. Again
23 underneath there is a drop down box and it
24 identifies all of your procedures and if you only
25 want to select the findings or the open findings

1 or open and closed findings if you check mark
2 that include closed issues for one specific
3 procedure that button gives you that option. And
4 then on my last page, page six, same type of
5 thing but this time the last gray button on the
6 right is details for selected finding date and I
7 did this again because I wanted to be able to
8 select January 17, 2005, so if we only want to
9 look at what's remaining in the first set of
10 procedures that we've -- that we looked at or
11 what is -- like one of the -- one of the files
12 that I printed or I submitted to you for this
13 meeting was what are the findings associated with
14 PROC-92. And so this button gave me that option
15 to just select procedures and I'm -- I'm showing
16 you this because these are the options we have
17 available, these are not the only options and I
18 wanted you to have some discussion as to other
19 things that we may want to include that we might
20 want to sort on. Obviously I did hear we want to
21 be able to include only open items so and
22 actually I believe at this point I have only
23 asked our Access person to exclude closed items.
24 I didn't ask him to include items maybe that have
25 been transferred or in abeyance and I will have

1 to ask him to specifically have us be able to
2 include only possibly only open items so that we
3 can just deal with those during our workgroup
4 meeting.

5 **MS. MUNN:** Now but be aware abeyance also is
6 open.

7 **MS. BEHLING:** Yes.

8 **DR. MAURO:** Kathy, could you again refresh at
9 least my memory the distinction between an item
10 being open and active and being open and in
11 abeyance?

12 **MS. BEHLING:** Okay, and there are also different
13 forms of open which I guess in this version I
14 didn't have the time to put all of those in. But
15 first of all there's open and what we had
16 discussed and Wanda correct me if I'm wrong but
17 open means the item has not been discussed yet.
18 It is a finding that we submitted let's say a
19 third set finding that we haven't had any
20 discussion on yet, that's obviously an open item.
21 If it's open and in progress it means that we
22 have had a workgroup meeting on this topic, we've
23 had some discussion but the issue is not
24 resolved. In abeyance is an issue that is
25 actually been -- we've been through the entire

1 resolution process and the resolution is that
2 NIOSH is going to agree to make a change to that
3 procedure and in some future revision of that
4 particular -- that particular procedure they're
5 going to incorporate the finding, they're going
6 change -- make that change to that procedure to
7 incorporate our finding. So it's actually an
8 issue that is by -- by what we're looking at here
9 we've resolved it but it's not going to be
10 completely resolved until NIOSH issues a new
11 procedure, a new version of a procedure. That's
12 in abeyance.

13 **MS. MUNN:** That's approximately what we discussed
14 at our last meeting, yes.

15 **MS. BEHLING:** Correct. And then obviously closed
16 is an issue that maybe SC&A agrees with NIOSH's
17 response and the Board agrees with -- there's an
18 agreement across the Board and that's a closed
19 item. Now the last status is also the
20 transferred status meaning that we -- we can
21 transfer something maybe to a site profile or we
22 can transfer it to global issues. So those are
23 the items that you can -- that you might see in
24 that status column. The one last item which I
25 don't think we're going to see a lot of these

1 when we get to the third set, this second set was
2 a little bit unique but in some cases we
3 recognize as we look down through maybe a list of
4 fifteen findings that many of them are related
5 and if we resolve finding one we'll resolve the
6 next five findings. So what we'll do in the
7 status of these additional five findings is say
8 we'll -- addressed in finding 001, the finding
9 number in 001. So those are the types of things
10 that you'll see in the status column. Are we in
11 agreement with that, and I thought that is what
12 we --

13 **MS. MUNN:** Yeah, yeah, that's essentially what
14 we'd agreed to. Paul?

15 **DR. ZIEMER:** I have another question Kathy or
16 anyone at the table could perhaps address.
17 Suppose we have findings from different
18 procedures that deal with a particular thing,
19 let's say it's breathing rates for construction
20 workers or something and you have several
21 different procedures where that has arisen as a
22 finding, do we have the ability to sort not only
23 by procedure title but by the nature of the
24 finding, for example every time that arose could
25 we -- can we sort by that to see if it's always

1 handled in the same manner or is that getting to
2 be too much detail?

3 **MS. BEHLING:** We -- that is not built into our
4 current sort because if you go back to page two
5 into the details screen that is -- it would be in
6 a paragraph type form here. Now I would assume
7 you could sort on specific words within that
8 detailed screen I can -- I can check on that.

9 **DR. ZIEMER:** Well for example tritium
10 calculations or something like that.

11 **MS. BEHLING:** Yes.

12 **DR. ZIEMER:** Or suppose that issue arose in
13 several different procedures. Maybe -- maybe it
14 wouldn't but I think it could or some of these
15 could.

16 **DR. MAURO:** Well likely between the procedures
17 and a site profile and a real case.

18 **DR. ZIEMER:** Yeah.

19 **DR. MAURO:** We're going to -- because we're going
20 to see a tritium problem in all these different
21 places. What you described certainly be valuable
22 I have to say it's going to be --

23 **DR. ZIEMER:** Is that a -- but that may only be a
24 word search on the finding. Every time tritium
25 comes up show us what it was.

1 **MS. MUNN:** That sounds like a simple word search.
2 You'd have to sort through after you've --

3 **DR. ZIEMER:** Well I think Access has that
4 capability; I'm sort of asking whether it does.
5 Kathy do you know if it --

6 **MS. BEHLING:** I don't know if it does, I believe
7 it --

8 **DR. ZIEMER:** Look at all the findings dealing
9 with neutrons.

10 **DR. MAURO:** Has the word neutron in it.

11 **DR. ZIEMER:** Or something like that. Do we have
12 that ability?

13 **MS. BEHLING:** I believe that we -- that we could
14 do that. Again, I'm not the expert on that -- on
15 Access but I could talk to the person with SC&A
16 that -- that is an expert on it. But I would
17 imagine if we went into our details form we could
18 do a sort on specific words.

19 **MS. MUNN:** There -- there is an icon for search
20 showing on the -- on the bar.

21 **DR. MAURO:** That would only occur -- let me just
22 point something out that might be important.
23 Remember that this is the Access database that
24 deals with Task Three.

25 **MS. MUNN:** Yes.

1 **DR. MAURO:** Am I correct in what I heard is that
2 let's say there's tritium issue that came up as
3 something on some other site profile.

4 **DR. ZIEMER:** Well right now I'm just -- other
5 procedures --

6 **DR. MAURO:** Only within its -- okay, yeah.

7 **DR. ZIEMER:** -- but yeah. But ultimately it
8 might be --

9 **DR. MAURO:** Okay.

10 **MS. BEHLING:** Yeah, John he's just assu -- he's
11 saying that there could be like the inhalation
12 issue associated with several procedures.

13 **DR. MAURO:** Right. Sure.

14 **MS. BEHLING:** And we want to be sure that we've
15 handled all of them consistently.

16 **DR. MAURO:** Okay.

17 **MS. MUNN:** But a simple word search would pull
18 all of those items up?

19 **DR. ZIEMER:** Seems to me it would, yeah.

20 **MS. MUNN:** Yeah. I can't see why not.

21 **MS. BEHLING:** Yeah, I -- I am sure that we can do
22 that. I will talk to our Access person. So I
23 guess that -- that summarizes and like I said I
24 just wanted to give you a visual understanding of
25 the database and I'm glad I've -- we've -- we've

1 walked through this. If you all are going to
2 want a -- a -- access to this information and
3 you're going to want to as I said if you went
4 back to that summary sheet and you said where are
5 we on an open item in IG001 you just click on
6 that item and then open up your details button
7 and it will give you all of those details. I
8 certainly think that would be worthwhile for you
9 -- for you to see and you could have a user, you
10 know, user only type of format that we could make
11 available to you on the O drive but when we get
12 to that point if -- if anyone wants a little bit
13 more detailed demonstration of this we can -- we
14 can obviously do that also. But based on what
15 you see do you have any other questions? Are
16 there any other ways that you'd like to sort the
17 data? Do you want to capture any additional
18 data?

19 **MR. MARSCHKE:** Kathy, this is Steve Marschke
20 again. I have a question on the transferred
21 category. If I transfer a finding, say I
22 transferred a finding to -- from -- from OTIB 4,
23 an OTIB 4 finding to OTIB 52, how does OTIB 52
24 know that it's got a new finding?

25 **MS. BEHLING:** Well --

1 **MR. MARSCHKE:** How does OTIB 52 receive that
2 transfer?

3 **MS. BEHLING:** Well what we've done in the past
4 with the let's say the global issues is at our
5 last meeting again there was the issue of I -- I
6 believe it was the inhalation discussion on --
7 and we wanted to ensure that that was going to be
8 part of the global issues package and John Mauro
9 as part of the follow-up action talked to Jim
10 Neton and said we're transferring this to global
11 issues and it became on global issues issue of
12 listing and the other thing that I have done and
13 you're asking an excellent question and this is a
14 question that comes up all the time on how do we
15 ensure that nothing falls through the cracks.
16 One of the issues that we discussed under one of
17 the procedures I guess that was a note in my dose
18 reconstruction. I actually call Joe Fitzgerald
19 who takes care of the site profile task and I
20 ensure that he now has this finding and it
21 becomes a finding under lets say a Y-12 issue and
22 when they discuss -- when they resolved the
23 remaining open issues under the Y-12 site profile
24 he includes it there and so on my details sheet I
25 would indicate that I have called and talked to

1 such and such a person and to ensure that this
2 finding was transferred to something else or to
3 some other task. I don't know if that is good
4 enough or not.

5 **MR. HINNEFELD:** I think, Steve, your question
6 about transferring from you know one procedure to
7 another though I think those would be indicated
8 rather than transferred it would be being
9 addressed by such and such find so as long as
10 it's within the procedures of Task Three it
11 wouldn't be called a transfer. The transfer to
12 outside would be the question, make sure it's --

13 **MS. BEHLING:** That's correct.

14 **DR. MAURO:** Well let me -- the example that Kathy
15 used is a good one. That at the last meeting a
16 question came up regarding inhalation and yes
17 after that meeting I had an action item to call
18 Jim, I called Jim, Jim said yes, it's in -- it's
19 part of the global issue along with the oro-nasal
20 breathing and my intent was to report that back
21 to the meeting today. And what would happen then
22 it would go into the discussion section that's
23 going to go into the next round. So -- so it's a
24 mechanical -- it is not a very sophisticated
25 approach.

1 **MR. MARSCHKE:** Right.

2 **DR. MAURO:** I just report back and if we're --
3 you know we're attentive I will make sure that we
4 get those words in the write up but that's it.
5 There's your wink. I wrote it down here and
6 later on someone wants to say well this actually
7 happened, then you got to call Jim again.

8 **MR. MARSCHKE:** Right.

9 **DR. MAURO:** But that -- it's not being automated
10 where all of a sudden it pops up on Jim's screen,
11 you know what I mean?

12 **MR. HINNEFELD:** Right, right.

13 **MS. BEHLING:** And Steve, Stu is correct.
14 Anything that stays in Task Three in the
15 procedures review will just have in the status --
16 the status column addressed under finding such
17 and such so -- so to ensure that it's staying
18 within Task Three.

19 **MR. MARSCHKE:** Okay.

20 **DR. MAURO:** You know as long as we're going to
21 operate in that mode what this means is that
22 we're going to have to be especially attentive
23 when we fill in the discussion section where --
24 where you know, what how -- you know to something
25 that's been transferred, it's important that in

1 that little box it says discussion it's been
2 transferred to this other place and these are the
3 action items that ought to be taken. So at least
4 we have a record somewhere. But you're right; it
5 would be nice to have something a little more
6 automated, but I think we've got to be able to
7 walk before we can run. That's pretty -- that
8 gets pretty fancy when you start linking to other
9 databases.

10 **MS. BEHLING:** If the other tasks have an Access
11 database like this I guess we could --

12 **DR. MAURO:** Yeah, yeah, but --

13 **MS. BEHLING:** This is a first attempt at this.
14 Any other questions or --

15 **MS. MUNN:** One other suggestion, Kathy.

16 **MS. BEHLING:** Yes.

17 **MS. MUNN:** Larry and I were looking at the title
18 of -- of our database here and we're wondering if
19 perhaps the title that you have on Access
20 database screens that we were looking at should
21 read something other than NIOSH Issues Tracking
22 Database. It is an ABRWH procedures working
23 group tracking database actually.

24 **MS. BEHLING:** Yes.

25 **MS. MUNN:** And perhaps that designation might be

1 more appropriate, especially in light of the
2 possibility that this process if it works well
3 for us might end up being taken up by others in
4 some other format or under some other title.
5 Just for the current moment unless someone has
6 real reservations about that it seems to me that
7 better recognition would be ABRWH Procedures.

8 **DR. ZIEMER:** Yeah, or Procedures Review Database
9 or something like that.

10 **MS. BEHLING:** I agree, okay, that's -- I can
11 easily make that change.

12 **MS. MUNN:** All righty.

13 **MS. BEHLING:** Yes.

14 **MS. MUNN:** Any other comments with respect to
15 this?

16 **MR. ELLIOTT:** I think I would make a suggestion
17 along those lines that there's great utility here
18 in this -- this database that other working
19 groups might you know latch onto and say hey,
20 here's a great way to keep track of our work
21 better than maybe the matrices that we're
22 currently using and if you change these titles
23 the way Wanda has suggested that opens it up to
24 deliver an opportunity to the other working
25 groups a subcommittee on dose reconstruction

1 reviews, the board itself.

2 **MS. BEHLING:** Yes.

3 **DR. MAKHIJANI:** If I might add to that also you
4 know we've had a little bit of complicated
5 tracking for site profile databases that transfer
6 over into SEC issues, kind of -- we have to do a
7 lot of juggling to keep track of going through
8 the way we have gone through the matrices. This
9 could make that easy because we have a site
10 profile tracking base and -- database and at a
11 certain point we see a designation that it's
12 being transferred to SEC work.

13 **DR. ZIEMER:** Dose reconstruction matrices can do
14 this same thing.

15 **MR. ELLIOTT:** It's a great way to sort out the
16 site profile specific issues from the SEC related
17 issues and track them separately.

18 **DR. MAKHIJANI:** Now what I'm going to do is
19 handprint it. I'm going to make a separate
20 matrix for SEC issues extracting from everything.
21 And we can do that; I think it will be cleaner
22 than what we did in Rocky Flats where we were
23 going through a whole matrix every time.

24 **MR. ELLIOTT:** Yeah.

25 **DR. MAKHIJANI:** But this would help that.

1 **DR. MAURO:** And interesting that would make it a
2 forcing function for dealing with. There's
3 always been this little ambiguity on is it a site
4 profile issue or is it an SEC issue. Granted
5 there -- there are lots of different opinions on
6 that but this would force us to have to come to
7 grips with that and ask where would we drop this
8 one.

9 **DR. ZIEMER:** I'm wondering if we're at a point in
10 sort of the maturity of this where at least the
11 concept could be presented to the Board maybe as
12 part of Wanda's report and maybe Kathy could make
13 the presentation but to show the utility of this
14 approach and suggest that other working groups
15 consider adopting a similar format.

16 **DR. WADE:** And if they were to want to do that
17 what would they do, contact Kathy?

18 **DR. MAURO:** Yeah we have our -- Kathy being the
19 first member --

20 **DR. WADE:** Point person.

21 **DR. MAURO:** Went through the hard knocks of
22 putting it out. I think that she's -- she can
23 move on to the next one. Obviously the next
24 easiest one would be the one that Kathy is
25 running on the dose reconstructions.

1 **MS. BEHLING:** Yeah.

2 **DR. ZIEMER:** See this is the matrix resolution
3 process now.

4 **DR. WADE:** Yeah I mean this obviously has good
5 utility. Obviously it will expand in its use; we
6 just need to plan for that and make sure we have
7 the resources available to do that.

8 **DR. MAURO:** Yeah, that -- this turned out to be a
9 bit more resource intensive than we thought it
10 would be as everything else.

11 **DR. ZIEMER:** Once -- Once the model's in place --

12 **DR. MAURO:** Right, that's right.

13 **DR. ZIEMER:** I think you can adopt it pretty
14 easily.

15 **DR. MAURO:** Yeah, no I agree, it just was getting
16 from the drawing on a piece of paper.

17 **DR. WADE:** But the maintenance of these things
18 will become something that has to be resourced.
19 I think we can do it.

20 **DR. ZIEMER:** But we're maintaining the matrices
21 anyway and in some cases where it's more
22 difficult.

23 **DR. MAURO:** I think once we get through the
24 transition --

25 **DR. ZIEMER:** It looks to me like it would be much

1 more efficient.

2 **DR. MAURO:** Yeah, I agree with that.

3 **MS. MUNN:** You're one step ahead of me, Paul. I
4 will start --

5 **DR. ZIEMER:** Oh, sorry.

6 **MS. MUNN:** No, that's quite all right. I was not
7 quite sure that we were quite at the point where
8 we wanted to make a very significant presentation
9 to the full Board. I -- it would be nice to see
10 the full set of -- of notebooks and full set of
11 documents once before we made much of a
12 presentation of it. I think I would like the
13 full Board to know where we're going with this
14 but perhaps I'm being just a little too
15 conservative if we're really ready for it.

16 **DR. ZIEMER:** January may be too soon but if we do
17 it say at the next meeting after that then I
18 could foresee having it done online where she
19 could put it on the screen and do the
20 (indiscernible) and show how the pages came up
21 and so on.

22 **MS. MUNN:** I can -- I would anticipate that --
23 that the Amarillo meeting would be a very good
24 time to do that. But I certainly would like to
25 report to the Board, the full Board, what we're

1 working on and have a brief -- a brief once
2 through of what we think it's going to look like.
3 Kathy, would that be a possibility for you for
4 the January meeting?

5 **MS. BEHLING:** That shouldn't be a problem. In
6 fact I believe that by the January meeting we
7 will have everything updated from the third set
8 put into this database and I will go back and
9 fine tune some of the first and second set
10 information and any changes that we want to make
11 will definitely be made on this database by our
12 expert. Believe it or not the individual that
13 put all this together for me and -- and we -- we
14 had many renditions of this, we went back and
15 forth many times, he did all this under forty
16 hours so he's very, very good at this and he does
17 this type of thing in his sleep and so I don't
18 think there will be a problem having everything,
19 pretty much everything in good order by the
20 January meeting.

21 **MS. MUNN:** Good, if we could -- we could
22 anticipate perhaps a -- a five or ten minute -- a
23 ten minute presentation with some Q and A time at
24 the January meeting and then a full presentation
25 of this is what the whole thing's going to look

1 like in Amarillo, would that be --

2 **MS. BEHLING:** That's fine.

3 **MS. MUNN:** Is that amenable with the other
4 members of the work group?

5 **MS. BEHLING:** Yeah.

6 **DR. WADE:** We would do this as part of your
7 presentation with Kathy then speaking to the
8 workgroup update?

9 **MS. MUNN:** Yes. Fine. That's a plan.

10 **MS. BEHLING:** Okay.

11 **MS. MUNN:** Then --

12 **MR. HINNEFELD:** Stu Hinnefeld, I have just a
13 logistics question now. Have we decided where --
14 shall we have them put this on the O drive? I
15 think that would be a convenient place. And so
16 whether it's going to be a read-only or whatever
17 we can work out with Kathy and then if it's a
18 read-only and it goes on the O or --

19 **DR. MAURO:** Where else would it be, I mean I
20 think --

21 **MR. HINNEFELD:** Yeah, I mean that's -- I think
22 it's got to go there.

23 **MS. MUNN:** Yeah, I don't know where --

24 **DR. BRANCHE:** This is Christine. The only other
25 option is we're trying to go -- Zaida may have

1 already sent you a message, the Board members a
2 message, but we're trying more and more to go to
3 a paperless system since so many of you bring
4 your laptops and so she's preparing flash drives
5 for you so there's an opportunity that at least
6 for that meeting to have it available for her to
7 have on the flash drive as well 'cause we're
8 trying -- to all those big books you all bring
9 your laptops so that you know we don't have to
10 kill a tree. So there's another opportunity
11 there as well.

12 **MR. HINNEFELD:** Well Kathy you and I can work out
13 how I'll -- if this is going to be read-only or
14 will I have a rights to read to write to it or
15 something like that 'cause I'll need to use -- I
16 want to use the official one, there should be an
17 official one.

18 **MS. BEHLING:** Yes, there will be. And yeah,
19 we'll work together on that. In fact I'll have
20 to give all that -- those files to you to update
21 to put that onto the O drive.

22 **MR. HINNEFELD:** Yeah, okay. All right, just let
23 me know how it's going to work.

24 **MS. BEHLING:** Okay.

25 **MS. MUNN:** Okay. So that's an action item,

1 right?

2 **DR. BRANCHE:** So Wanda you want to make a full
3 presentation about the new matrix at the Amarillo
4 meeting?

5 **MS. MUNN:** Yes, uh-huh. All right. I had hoped
6 that by this time we'd be into the other portions
7 of those four matrices that had been sent out to
8 us earlier rather than just these database
9 tracking cover sheets. We all received those
10 late last week or over the weekend I guess and
11 there is an enormous amount of information in
12 them but it's very good. Thank you again Kathy
13 for getting these detail sheets to us so that we
14 could have an opportunity to see what they really
15 would look like.

16 **MS. BEHLING:** You're welcome.

17 **DR. MAKHIJANI:** Kathy, could you email that to
18 me? I'm not able to locate my copy right now.

19 **MS. BEHLING:** Yes, I will, Arjun.

20 **DR. MAKHIJANI:** Thank you.

21 **MS. MUNN:** So one thing that was striking as I
22 was going through it is how clearly we have
23 followed our original plan to try to address the
24 most pressing issues first. When we see the
25 material laid out in this format the number of

1 times that we see the issue was not discussed
2 really jumps out at us. I don't know that we are
3 at a point quite yet where we can revise our
4 start of standing process of trying to address
5 the most pressing issues in a priority fashion.
6 But before very long as we work in this format it
7 appears that we are going to have to come to
8 grips with when do we address what we have
9 designated as slightly less pressing items
10 because we have such a large number of them that
11 are still in the not discussed category. Does
12 anyone have any specific comments that they want
13 to make with respect to either the format or the
14 content of the format of these four sets that
15 were provided to us?

16 **MR. HINNEFELD:** Well I have a specific comment
17 about the file that's called second set open
18 items, the -- discussion -- the workgroup
19 discussion on PR007 is actually the workgroup
20 discussion we held on OCAS TIB 007, PR007 has to
21 do with DR review. PR007 and 005 are somewhat --
22 somewhat administrative descriptions of how we
23 can A, how we can best assess and B, how -- how -
24 - what do we do when we review dose
25 reconstructions. So we've not discussed those

1 yet and I believe I do have some initial
2 responses that were not available at the 10-2
3 meeting that I sent out before the last
4 teleconference meeting that I could clip and put
5 on here, you know once I have the database I can
6 clip them on here for initial responses. But so
7 just as a comment though I was looking through
8 that and I said those responses don't meet the
9 findings and I realized though that was TIB7
10 responses. So I can -- I can take care of that
11 once the file is updated.

12 **DR. MAURO:** There's going to be populating --
13 populating the database.

14 **MR. HINNEFELD:** Yeah.

15 **DR. MAURO:** In a way that everyone you and SC&A -
16 - I mean yes this captures. First of all it's
17 factual and correct.

18 **MR. HINNEFELD:** Right.

19 **DR. MAURO:** And does it capture what was
20 discussed adequately. But that's true whether
21 we're doing it on a database or we're doing it on
22 hard copy.

23 **MR. HINNEFELD:** Right, right, right.

24 **MS. MUNN:** That's the kind of material I hope
25 we'll have an opportunity to address between now

1 and the Amarillo meeting so that when we do
2 produce a document for the entire Board to see
3 we'll be fairly comfortable with how the
4 information is presented and that it's presented
5 accurately in the right place. Any other
6 commentary? I will assume that Stu, you'll work
7 with SC&A to identify those?

8 **MR. HINNEFELD:** Well I can just change it. I
9 mean once I get the data files from the Access
10 data files I'll just change them because
11 (indiscernible). And actually I think all we've
12 provided for five and seven are initial
13 responses; we have had no discussions, I believe
14 that's true.

15 **MS. MUNN:** All right.

16 **DR. ZIEMER:** Could you identify the four
17 documents? The first one was the second set, is
18 that the twenty-two page document, the PDF file?

19 **MS. MUNN:** Yes.

20 **DR. ZIEMER:** Okay and what was the second one?

21 **MS. MUNN:** And the second one was the PROC-92
22 format to be formatted. There you are. The next
23 one was the issues tracking system, the rollup of
24 all items and the other one --

25 **DR. ZIEMER:** You're talking about 90-02 or --

1 **MS. MUNN:** No.

2 **DR. ZIEMER:** Or 92?

3 **MS. MUNN:** We're talking about 92.

4 **DR. MAURO:** Supposed to be a close out.

5 **MR. HINNEFELD:** It's a -- It's an Adobe PROC-
6 0092.

7 **MR. ELLIOTT:** Eight pages.

8 **MS. MUNN:** Eight pages will be -- they were all
9 sent the same time and we'll be addressing that
10 particular segment of course in greater detail
11 after lunch. All right.

12 **NIOSH - GLOBAL ISSUES REPORT**

13 Let's move on to our next item. We're going to
14 get a report on global issues and where we are
15 with those.

16 **MR. HINNEFELD:** Yeah, this is Stu, I believe we
17 were asked to describe how we're keeping track of
18 global issues.

19 **MS. MUNN:** Yes and --

20 **MR. HINNEFELD:** So, so far we have -- have a
21 list, a meet and approve list. And what I'm
22 handing around is a one page -- it's a one page
23 file and this is actually a Microsoft project
24 because it's something we use for other purposes,
25 we just put it on there. It could be on a PB, we

1 don't have -- we don't -- we really use Access,
2 our TST guy is a SQL guy and so we would do it in
3 SQL if you went to a database. But in this
4 fashion the advantage of projects is you can list
5 under your tasks is and each of these -- not the
6 blue ones are sort of categories but the black
7 numbers are tasks. You can list subtasks under
8 each of those, first specify how you're going to
9 do it. Some portion of this will be to put a
10 responsible person on each one. Jim has his --
11 he has his list of responsible people that he has
12 not shared with me yet so I'm hoping I'm not on
13 it. So I say responsible person, I mean the
14 health physicist who is probably going to lead
15 the effort. And what we'll have to end up with
16 is then a -- some sort of technical document
17 whether we call it a technical information
18 bulletin or invent some new name because it
19 doesn't really tell anybody how to do stuff, it
20 just provides the technical background for why we
21 do something a certain way. So there will be a
22 technical document prepared for each of these.
23 So that is the tracking mechanism we have so far.
24 And -- and you can also put in days and
25 schedules, you know due dates and completion

1 dates. So it's -- it's a project management tool
2 really all the scheduling type of things. The
3 issue I was supposed to talk about I believe was
4 oronasal breathing and the breathing rates which
5 again Jim has been involved with and has talked
6 to John about. Jim did present this at the
7 Naperville meeting, he made a presentation on the
8 science issue. I had forgotten that at our last
9 meeting because I missed quite a lot of the
10 Naperville meeting because I was on other
11 business. But the -- but the rest -- the
12 presentation briefly is that for dose
13 reconstructions were those dose -- internal doses
14 calculated from bioassay. The oronasal breathing
15 becomes not much of a factor because if you might
16 -- you'd have a greater deposition which then
17 accounts for better urine samples and so it comes
18 -- comes out in the wash. So it's not much of a
19 factor on a bioassay. The issue comes in on a --
20 on a air sampling approach and what Jim presented
21 was air sampling populations have large GSB's and
22 we use high percentiles like the ninety-fifth
23 percentile on the -- on -- on the -- on the
24 distribution and for that reason the uncertainty
25 that's associated with the breathing technique of

1 the individual is essentially dwarfed by this
2 larger uncertainty in which your ninety-five
3 percentile of the air sample distribution you
4 would count it sufficiently for. That was his
5 presentation. Mark asked the question about well
6 you've shown us the Simonds Saw data, air
7 sampling data which clearly has a very large
8 geometric standard deviation, is that really true
9 universally. And so that work has yet to be
10 done. And this will all be published in a
11 document.

12 **DR. MAURO:** And what might be helpful is that
13 I've been reviewing TBD6000, 6001, both of which
14 deal with generic reviews, large, vast amounts of
15 data related to the AWE facilities, the
16 processing and the working. And I noticed in
17 there that an attempt was made to capture the
18 literature on lots of facilities and the way in
19 which the data are summarized are EPN per cubic
20 meter with the geometric -- the geometric
21 standard deviation. So I'm just offering up one
22 place that's already been done to sort of capture
23 the lease for AWE's.

24 **MR. HINNEFELD:** Right.

25 **DR. MAURO:** A good sense of the spread is in that

1 document. I would like to point out though that
2 the concept of ninety-fifth percentile as being
3 the -- the approach, we will be getting into this
4 and it'll be peripheral but it's not universally
5 being applied and how it's being applied is
6 interesting and we'll be talking about it. So
7 there's a little bit of linkage, I under -- I
8 understand the philosophy you just described and
9 I agree with it by the way. We do have a large
10 spread on the air sampling, you pick ninety-fifth
11 percentile, that covers a lot of ills. But we'll
12 see when we get into these other matters that
13 it's not always the ninety-fifth percentile as
14 one would think it is.

15 **MR. HINNEFELD:** Okay. Well I'm referring to what
16 Jim said.

17 **DR. MAURO:** Yeah, no and I agree with it. And I
18 think that concept is a solution for the oronasal
19 breathing.

20 **MR. HINNEFELD:** Okay.

21 **MS. MUNN:** This is the first time I've had an
22 opportunity to look down the list of what we've
23 identified as global issues. Does anyone have
24 any comment about these? Any additions or
25 suggestions based on our prior deliberations?

1 **MR. HINNEFELD:** Some of these Jim indicated are
2 complete. A smoking adjustment for lung cancer
3 that was the alternate -- I believe that's on the
4 lung model, isn't that the new NCI model?

5 **DR. ZIEMER:** Yeah.

6 **MR. HINNEFELD:** So I believe that one is
7 complete.

8 **MS. MUNN:** So under --

9 **MR. HINNEFELD:** Thorium welding rods has been
10 presented. I don't guess there's been a paper
11 written on that yet.

12 **MS. MUNN:** So somewhere out here under -- under
13 actual finish we --

14 **MR. HINNEFELD:** Yeah, we'll -- we'll update this.
15 Like I said all I have right now is a list of
16 internal dose from Super S plutonium that's
17 completed you know the document's out there, the
18 PDR is being worked, we're reworking the cases.
19 Some of these are complete. But we'll have an
20 updated --

21 **DR. MAURO:** When an -- when an item makes it onto
22 the global issues that's something that emerges
23 from you all's process, that is you know whether
24 -- whether it's an interaction with SC&A and the
25 Board at some point in that processing it becomes

1 apparent well you know really this has some
2 cross-cutting issues and emerges in that fashion.

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

4 **DR. MAURO:** Now let's say it turns out you know
5 in -- in our SC&A's deliberations from where we
6 review the material and workgroup meetings, there
7 may be certain issues that start to appear to us
8 that perhaps are cross-cutting. Is this
9 something that we should bring forth during the
10 meeting because I have a couple in my mind right
11 now quite frankly.

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

13 **DR. MAURO:** Or is that something that's
14 inappropriate for us to discuss?

15 **MR. HINNEFELD:** Well I think it would be a
16 question for the workgroup and the Board. It
17 would seem like you know this is sort of... It
18 would seem like that would be a way to findings
19 you know because we don't -- we don't necessarily
20 say that every one of these you know came to us -
21 - you know came to us. I think some of -- quite
22 a number of these come from these -- that kind of
23 discussions.

24 **DR. ZIEMER:** Well didn't some of these come
25 through SC&A findings anyway?

1 **MR. HINNEFELD:** Yeah, yeah, right. Quite a
2 number of them did. Yeah.

3 **MS. MUNN:** But also quite a number came from the
4 deliberations of this group right here which is
5 certainly an appropriate source for bringing them
6 to the list it seems to me. If you have others
7 that you're aware of that are not on the list and
8 you're looking for a place to put them certainly
9 it appears this group would be quite receptive to
10 hearing those.

11 **DR. MAURO:** Okay as -- as they come up. Because
12 I do have -- I have one particular in mind.

13 **MS. MUNN:** Right.

14 **MR. ELLIOTT:** I think you should talk to Jim
15 also, we'd be receptive to hearing what your
16 thoughts are you know and however it's placed
17 into the deliberation process is you know it
18 would be another matter but certainly we would
19 want to hear it.

20 **MS. MUNN:** Okay. You'll want to get it on there
21 because this resolving this particular
22 overarching list resolves many problems on many
23 sites so it's crucial for --

24 **DR. MAURO:** I think it's important because what
25 I'm seeing after doing this now for about three

1 years is that every time we do a site profile,
2 every time we do a -- well not a procedure review
3 necessarily but every time we do dose
4 reconstruction, these same issues are coming up -
5 - these same issues are coming up over and over
6 and over again and we revisit them over and over
7 and over again and little by little they find --
8 some of them find their way to the global issues.
9 I think a little bit more of that would be create
10 an efficiency where yes this is -- you know so we
11 don't -- so we -- we -- I think if we could start
12 moving more of those into global issues because
13 once they're solved, they're solved across the
14 board.

15 **MR. HINNEFELD:** Yeah. Okay.

16 **MS. MUNN:** But there's no question, dealing with
17 them at each site is not only painful, it's
18 wasteful and we really should be able to avoid
19 that as soon as possible. So thank you, John.
20 Any other comments on global or overarching
21 issues? If not, let's take a ten minute break,
22 just a quick one, please.

23 (Whereupon, a break was taken from 11:05 a.m.
24 until 11:15 a.m.)

25 **SC&A - COMMENTS ON NEW RESPONSE DATA**

1 **MS. MUNN:** All right. We're back on. We're
2 ready to resume where we left off on our proposed
3 agenda. This past week NIOSH presented us with
4 three new comments to items on our currently
5 operable matrix and Stu, do you want to go over
6 those very quickly to see what SC&A comments --
7 responses to those might be at this juncture?

8 **MR. HINNEFELD:** Okay.

9 **MS. MUNN:** We're starting with OTIB 17, findings
10 7, page 17 of the current matrix.

11 **MR. HINNEFELD:** Yeah, I actually wrote this on
12 17-6 which I think is the -- I may have made a
13 typo at some point when I --

14 **MS. MUNN:** I think you did. I thought that I was
15 looking at 06 but I started --

16 **MR. HINNEFELD:** But it's finding -- finding 17-6.
17 And this relates -- the finding had to do with
18 this -- this TIB, OTIB17 is about shallow dose
19 calculations and mainly beta dose calculations
20 but shallow dose calculations and the OTIB makes
21 the statement that if the limit of detection is
22 based on low energy protons for the shallow --
23 for the open window then you need to adjust that
24 limited detection with the exposure with the beta
25 parts because a low -- low energy proton and open

1 window film badge the film will over respond and
2 so you'd have to adjust for that. You know, you
3 wouldn't use the same LOD as you would for the
4 beta dose. In fact the beta dose you would like
5 to have a higher limited detection. So we wrote
6 that in the OTIB, that was the nature of the
7 finding and then subsequently SC&A's technical
8 report that they wrote on OTIB17 which I don't
9 have my -- I didn't get my response out, I didn't
10 have it ready until the last minute, I figured
11 why send it out. We won't have a response for
12 the OTIB17 white paper. That -- from what I read
13 that it sounds like in that report, SC&A agreed
14 that if in fact you know that the shallow dose or
15 the open window LOD was -- was derived using low
16 energy protons then in fact it is appropriate.
17 So that's just what I wrote here.

18 **DR. MAURO:** And that's correct. That was our
19 response to it.

20 **MS. MUNN:** So that item is now cleared?

21 **DR. MAURO:** Yes, from SC&A's perspective.

22 **MS. MUNN:** All right. 0017 item 06 can be
23 recorded as closed and the next item is OTIB 0019
24 item 1, page 24.

25 **MR. HINNEFELD:** Right, the finding starts on page

1 24, the new information begins on page 25, again,
2 it's headed December 11th. This finding had to
3 do with OTIB 19 is the co-worker, sort of the
4 general co-worker approach set and it talks about
5 getting a dataset, rank ordering the data, doing
6 an R squared and if it's good then you feel good
7 you've got log -- rank --rank ordering it a log
8 normal tune of distribution file. You get a good
9 R squared then you feel like it's good that
10 you've got lognormal data. And SC&A pointed out
11 correctly that R squared test in that
12 circumstance there's a build in -- there's a --
13 by rank ordering the data you have built in
14 association. So R squared isn't an unbiased
15 indicator there. So our -- our latest and I
16 relied of course Jim Neton was involved in this -
17 - in this discussion response, I just kind of
18 handed this one to him to work on. So he's
19 provided a write up here and essentially our --
20 our position here is that we don't -- we aren't
21 really using an R square test -- that R square
22 test to infer that the data is lognormally --
23 lognormal. We -- we came to the -- we come to
24 the question with the belief that the data was
25 lognormal based upon what we know of published

1 literature and -- and we've also actually done
2 some tests using the Anderson-Darling test I
3 think is one Jim said, testing various you know,
4 fits, various potential distributions to the
5 datasets we have. And out of some sixty datasets
6 that we have that we've collected for this
7 program fifty-seven of them, lognormal was the
8 best fit of the available distributions. Two of
9 them were normal and one was uniform actually so
10 I'd say it'd probably be a very sparsely
11 populated dataset. So based on the fact that we
12 have a sort of going in belief that it's
13 lognormally, we're really just looking for -- for
14 significant departure from lognormal because we
15 feel like if -- if in fact the data is pretty
16 close to lognormal you can draw good enough
17 inferences in terms of various percentile
18 distributions from that rank order distribution -
19 - or cumulative distribution plot and the line
20 and in fact it's a little easier to use than
21 actually just counting the data and taking the
22 ninety-fifth percentile from the worker data. So
23 it's a little easier to use, oftentimes ends up
24 with a higher value for the ninety-fifth
25 percentile because the distributions tend to fall

1 off at the straight line at the top. So if you -
2 - if you just counted in rank order you could be
3 up on where it's falling off the straight line
4 and the straight line approximation from the --
5 from the plot actually gives you a little -- a
6 little higher value than the ninety-fifth
7 percentile. So.

8 **DR. MAKHIJANI:** Stu, when -- when -- when the I -
9 - you know very likely been an unknown
10 distribution we lognormally what we're assuming
11 when doing our squared tests --

12 **MR. HINNEFELD:** Right.

13 **DR. MAKHIJANI:** But is there some kind of
14 evaluation of what happens in the few cases where
15 you're wrong and how off you could be in your
16 determination? How -- how poorly you might do if
17 the distribution was something else and you're
18 relying on it being lognormal?

19 **MR. HINNEFELD:** In those three out of fifty-
20 seven?

21 **DR. MAKHIJANI:** Not in the --

22 **MR. HINNEFELD:** Or --

23 **DR. MAKHIJANI:** Yeah -- or --

24 **MR. HINNEFELD:** Because I mean there are certain
25 tests for lognormality which are pretty stringent

1 and while these distributions may not actually
2 pass with a high -- with a what I guess would be
3 a low P value that -- those tests for
4 lognormality but they clearly are approximately
5 lognormal, just you know, you can see that.

6 **DR. MAURO:** When you have a large amount of data
7 and you do rank them, because that's one of the
8 things we used to do to see how that worked.

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

10 **DR. MAURO:** And we ranked them from high to low
11 and you pick off the ninety-fifth percent highest
12 value.

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

14 **DR. MAURO:** You had mentioned that you would look
15 -- did you look at this data from that
16 perspective, that is --

17 **MR. HINNEFELD:** I don't know if we did that rank
18 order on all those --

19 **DR. MAURO:** I usually find that interesting. If
20 it turns out that the ninety-fifth -- ninety-
21 fifth percent value in numerical order falls more
22 or less in place where your fit falls, you know I
23 get a warm feeling and it looks like it's really
24 good. And but I hear your argument and I agree
25 everything we looked at, everything I've ever

1 looked at has always been lognormal. You know,
2 but Bob, yeah, I know you work with this too,
3 please.

4 **DR. ANIGSTEIN:** Yes. We've found that this is
5 not always the case and it's not accurate. I
6 just happen to recall one instance which was not
7 dose distributions but Chi over Q's for Y-12 the
8 environmental exposure and that what happens is
9 the actual data deviates from the lognormal at
10 the upper end. So even though over perhaps the
11 major portion of it yeah it looks lognormal, but
12 if you're trying to pick off -- if you're doing
13 actual nonparametric determination of the ninety-
14 fifth percentile, I think we also found this at
15 Bethlehem Steel. I'm just going by memory now, I
16 can't say the specific example, you find that the
17 ninety-fifth percentile is significantly higher
18 than the ninety-fifth percentile of the assumed
19 lognormal distribution because those few points
20 at the top devi -- you know, have a tendency to
21 deviate upward.

22 **MR. HINNEFELD:** Well, there may be --

23 **DR. ANIGSTEIN:** So, that's the observation.

24 **MR. HINNEFELD:** There are situations that I'm
25 sure where that happens I think -- I think it was

1 (indiscernible) who published this collection of
2 data that we've used since co-worker --

3 **DR. ANIGSTEIN:** No, our --

4 **MR. HINNEFELD:** He indicated that -- that he
5 tends to see the tail go down but I think -- it's
6 the question is shouldn't you know, can we look
7 at those datasets that we have and what is the
8 difference between counting -- you know
9 essentially counting the ninety-fifth percentile
10 versus the straight line estimation?

11 **DR. ANIGSTEIN:** Sometimes there have been
12 significant differences.

13 **MR. HINNEFELD:** Yeah.

14 **DR. ANIGSTEIN:** And it would -- you know a
15 suggestion, a possibility to resolve would be to
16 simply use this nonparametric test where you
17 actually go in and interpolate the actual data
18 and get the ninety-fifth percentile and then it's
19 completely theory free, it's free of any
20 assumptions. This is the ninety-fifth percentile
21 because it is the ninety-fifth percentile.

22 **MR. HINNEFELD:** Well, I'm partly going to have to
23 defer to Jim on the discussion but -- and we --
24 but we could -- I think it may be informative to
25 look at the distributions we have and -- and do -

1 - now Bob when you say nonparametric, you just
2 mean just rank them, right?

3 **DR. ANIGSTEIN:** Right, you rank them and then you
4 do and then there is the formula for
5 interpolation you know if you -- if you happen to
6 have one hundred data points or one thousand data
7 points then it's obvious the ninety-fifth or the
8 nine hundred and sixtieth is your ninety-fifth
9 percentile by definition and when it's -- when
10 you have some odd number as you normally would
11 there -- there is just an interpolation method.

12 **MR. HINNEFELD:** Sure, sure. Okay, I just wanted
13 to make sure I understood exactly what that
14 meant.

15 **DR. MAURO:** The only time that doesn't work well
16 is when you only have four or five numbers.

17 **MR. HINNEFELD:** Right.

18 **DR. MAURO:** That it spread out pretty nicely but
19 it gives you -- that's -- that -- that's not as --
20 - doesn't give you the same warm feeling.

21 **MR. HINNEFELD:** Right. Well I think we could go
22 and with the same dataset I mentioned earlier,
23 look at the nonparametric ninety-fifth percentile
24 versus what would be generated based on the
25 assumption that it's lognormal and look at you

1 know, what differences are we talking about.

2 **DR. MAURO:** By the way just for my -- are we
3 talking about air sampling data here? Is that
4 what -- I -- I lost track or -- or are we talking
5 about -- what is -- what are --

6 **DR. ANIGSTEIN:** I was just using the air sampling
7 data as an example of things that I personally
8 have gone in and done calculations on.

9 **DR. MAURO:** The only --

10 **DR. ANIGSTEIN:** The same -- the same argument was
11 made well it should be lognormal.

12 **DR. MAURO:** The reason I ask is when you're doing
13 this and you say okay I want to pick some number
14 as being claimant favorable, when talking air
15 sampling data then you -- you have the confounded
16 problem and usually like to work with the time
17 weighted average data as opposed to -- as opposed
18 to individual samples because individual samples
19 could be really off the charts for a short period
20 of time.

21 **DR. ANIGSTEIN:** Sure. No, I was just using this
22 as an example.

23 **DR. MAURO:** Okay.

24 **DR. ANIGSTEIN:** Of -- of a -- example of
25 statistics of you know, statistic on databases

1 that I've looked at not -- I didn't mean to apply
2 this air sampling data.

3 **DR. MAURO:** Okay, let's say that would be
4 bioassay data, which is exactly what you want,
5 okay.

6 **DR. ANIGSTEIN:** Yeah.

7 **MS. MUNN:** So, what did I hear with respect to
8 OTIB 19-01?

9 **MR. HINNEFELD:** Well, what I suggest is that we
10 could compare the nonparametric and the
11 assumption of lognormal parametric, ninety-fifth
12 percentile to these various populations we have.
13 I won't have to do that, our statistician has to
14 do it so I can willingly offer that we'll do
15 that.

16 **MR. ELLIOTT:** We'd like to limit it to certain
17 ones --

18 **MR. HINNEFELD:** Certain ones, maybe look for you
19 know, Bethlehem Steel is one that Bob mentioned.

20 **DR. ANIGSTEIN:** I think, again, going by memory I
21 think the same thing applied to actual doses at
22 Iowa, IAET.

23 **DR. MAURO:** Is this almost like -- in this
24 procedure, this is more of a generic procedure of
25 how to deal with a co-worker model -- building

1 co-worker models?

2 **MR. HINNEFELD:** Yes.

3 **DR. MAURO:** So what I'm hearing is maybe the
4 solution, one strategy would be okay, while the
5 co-worker models -- while the dose
6 reconstructor's building his co-worker model,
7 according to this protocol you would use, you
8 know this fit and pick off the ninety-fifth
9 percentile on the -- on the lognormally fit
10 curve. Maybe there's just another step in the
11 process to the extent it's possible to validate
12 that assumption, rank order the data, see how
13 they compare and if they compare well you know,
14 or if it turns out the actual rank order gives
15 you a higher value, at that point there's --
16 there's going to be some judgment. The --
17 depending on the dataset you're looking at the
18 dose reconstructor may say well listen, I --
19 these -- these numbers that are at the high end
20 maybe really aren't appropriate for whatever
21 reason or maybe they are and if -- and if he
22 judges there are it might be more appropriate to
23 use the higher value of the two approaches. That
24 would be one way to come at the problem which
25 resolves the decision.

1 **MR. ELLIOTT:** So which way should we go here,
2 Stu? We have two options here before us.

3 **MR. HINNEFELD:** I think -- well, I hate to offer
4 a path forward without talking to Jim because --
5 but I think certainly some things we can do is
6 compare parametric and nonparametric ninety-fifth
7 percentiles on a selection of datasets that we
8 have and then we can talk about okay, in those
9 circumstances where the nonparametric is higher,
10 what do we, you know, how do -- you know, it
11 would certainly seem like if that were the
12 situation there should be a step that okay, does
13 that -- you know, should we use it then and not
14 automatic -- you know, automatically you know a
15 priori say that we will always adopt it but if it
16 is higher then say okay, is there you know, some
17 reason why that might be appropriate or not
18 appropriate to use and should we make it a
19 conscious decision whether to use it -- I mean
20 that might be something that could be done.

21 **MR. ELLIOTT:** I like John's suggestion. I think
22 melding the two together brings us to where we
23 all want to be. We're treating the issue and
24 we're being explicit in a technical information
25 bulletin or technical places to document approach

1 in saying how we've handled the development of
2 this data for its use and maybe that's the way we
3 should come out of this. We -- right, we should
4 talk to Jim and get his input but I really
5 appreciate your suggestion John, I think that's
6 helpful.

7 **MS. BRACKETT:** This is Liz Brackett, if I can
8 make a comment on this. That -- that OTIB is not
9 used by the individual dose reconstructor. It's
10 -- and in most cases we don't use the ninety-
11 fifth percentile. What is done is the data are
12 evaluated by a few people to generate the numbers
13 -- the intake rates for a site and the dose
14 reconstructor simply takes the intake rates out
15 of a subsequent OTIB and so I guess my question
16 would be you know, how we would actually
17 implement this if we came up with a different
18 ninety-fifth percentile then would that mean we
19 would change the GSD because what happens now is
20 that the median is used to fit an intake and then
21 that's assigned as a lognormal distribution with
22 the GSD determined from the fiftieth and eighty-
23 fourth percentile as the fit.

24 **MR. HINNEFELD:** Well Liz I think that's part of
25 our discussion with Jim is what's -- what's the

1 possible outcome here because like I said we use
2 -- we only use these to determine -- well GSD is
3 the key element and so --

4 **MS. BRACKETT:** Right.

5 **MR. HINNEFELD:** But whether -- the question
6 remains you know, if -- if the parametric
7 approach that we're using understates one or more
8 of those higher you know, percentile numbers then
9 the GSD would be understated as well. So I mean
10 the question remains regardless of what's used.

11 **DR. MAKHIJANI:** Well it won't be a GSD anymore
12 you know, because then you're --

13 **MR. HINNEFELD:** Because now you longer have a --
14 (multiple speakers)

15 **MR. HINNEFELD:** You no longer have a
16 distribution, that's right.

17 **DR. MAKHIJANI:** Liz is quite right; it's a little
18 bit more of a can of worms than what we can...

19 **MR. HINNEFELD:** Yeah.

20 **MS. BRACKETT:** And one other point though is that
21 -- actually that specific GSD is not what's used
22 for the intake. What happens is the median or
23 the means -- the -- the fit is done on the side
24 of bioassay results but then those results are
25 used to fit an intake and the fiftieth and

1 eighty-fourth percentiles are fit for the intakes
2 and the GSD is actually the GS -- it's -- it's
3 the ratio of the intake rates. It's not based on
4 the individual sets of bioassay data.

5 **DR. ANIGSTEIN:** Wouldn't one solution be to
6 simply not use a distribution for the intakes but
7 just assign a fixed value corresponding to the
8 ninety-fifth percentile?

9 **MS. BRACKETT:** I'm not sure I understand what
10 you're saying.

11 **DR. ANIGSTEIN:** Well in other words, instead of
12 assigning a distribution, generating a
13 distribution which is then used -- which is then
14 used by the dose reconstructor, simply give the
15 dose reconstructors a fixed value to use for the
16 missed dose and put that into IREP.

17 **MS. BRACKETT:** Why would you --

18 **DR. ANIGSTEIN:** A fixed value as opposed to a
19 distribution.

20 **MS. BRACKETT:** I don't understand why that would
21 be preferable for -- for -- for one thing most of
22 these people that it's being assigned to are less
23 likely to have been exposed than the people who
24 are monitored so we don't want to assign the
25 upper value. We're looking for a reasonable

1 value to assume -- to assign to people.

2 **DR. MAURO:** As I understand it the distinction --
3 when -- when internal exposures are at play,
4 we're not talking external now, when I remember
5 we've been through a discussion of this and SC&A
6 was arguing the ninety-fifth percentile but I
7 think NIOSH appropriately came back to us and
8 said listen there are circumstances when the full
9 distribution is the more appropriate value. So
10 this is helpful because I wasn't aware that was
11 what we were really talking about that is. So
12 what we're really saying here is when -- when the
13 dose reconstruction is being formed of an
14 individual who was not monitored and there's
15 reason to believe there was good reason why he
16 wasn't monitored because he really wasn't
17 believed at that time to be a worker that would
18 be expected to have an internal exposure. Under
19 those circumstances the appropriate approach is
20 to use the full distribution for the exposed
21 people, not the ninety-fifth percentile and we
22 fully agree with that. Now, so -- so that helps
23 set the frame -- frame the problem. Now, given
24 that, I guess the issue of the ninety-fifth
25 percentile which is how we all started this, does

1 that have any play because I don't even think
2 that -- I mean that certainly has play if you
3 were trying to pick off the ninety-fifth
4 percentile.

5 **MR. HINNEFELD:** Right.

6 **DR. MAURO:** Because you're doing it for a person
7 who you want to reconstruct his dose and he is a
8 worker that should have been monitored but
9 wasn't.

10 **MR. HINNEFELD:** Right.

11 **DR. MAURO:** But now we're in a different
12 framework, this is a worker that wasn't monitored
13 and there's evidence that there probably was good
14 reason why he wasn't monitored.

15 **MR. HINNEFELD:** I think probably the decision was
16 made that he would be -- he was not exposed and
17 there are circumstances.

18 **DR. MAURO:** Uh-huh.

19 **MR. HINNEFELD:** And but other people were chosen
20 that the site feels like they will --

21 **DR. MAURO:** Yes.

22 **MR. HINNEFELD:** They are exposed and they have a
23 routine monitoring program. I guess the position
24 is that the monitor -- while the people who were
25 selected as quote unmonitored and unexposed may

1 not truly have been unexposed, they were exposed
2 more -- less than that same site decided who was
3 exposed.

4 **DR. MAURO:** And that's --

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

6 **DR. MAURO:** And that's been a recurring
7 discussion that we've had and we understand where
8 that stands.

9 **MR. HINNEFELD:** Right.

10 **DR. MAURO:** There was some argument of cohort
11 monitoring went -- you know --

12 **MR. HINNEFELD:** Yeah.

13 **DR. MAURO:** I don't want to --

14 **MR. ELLIOTT:** Well it's a global issue now too.

15 **DR. MAURO:** Right.

16 **MR. ELLIOTT:** It's one on the list, unmonitored
17 workers.

18 **DR. MAURO:** No, where I'm going with is and
19 correct me if I'm wrong, maybe this is a non-
20 issue because if we're only talking about the
21 framework of application that is appropriately
22 applied to workers who were not monitored and
23 appropriately weren't monitored but may have
24 gotten some exposure but certainly not the upper
25 ninety-fifth percentile and certainly not

1 exposures that would be attributed to people who
2 were workers in the worker settings. Under those
3 circumstances I know it's NIOSH's approach to
4 assign the full distribution which would be very
5 claimant favorable and I agree with that. Then
6 once I get to that point I say why are we
7 discussing ninety-fifth percentile?

8 **MS. BRACKETT:** You're right, the ninety-fifth
9 percentile as the OTIB currently stands the
10 ninety-fifth percentile is not used for anything
11 but fiftieth and eighty-fourth percentiles are
12 what's used to develop the intakes and having a
13 different ninety-fifth percentile would not have
14 any impact on the current --

15 **DR. MAURO:** That's what I suspected, right,
16 Arjun?

17 **DR. MAKHIJANI:** Don't you assign the ninety-fifth
18 percentile in most cases where you know like, for
19 instance at Rocky Flats uranium workers were not
20 at all monitored in the 1950's --

21 **MR. HINNEFELD:** I know.

22 **DR. MAKHIJANI:** And but they should have been
23 monitored -- what would -- what do you do in that
24 circum -- don't you assign the ninety-fifth
25 percentile?

1 **MR. HINNEFELD:** I don't know what happened.

2 **DR. MAKHIJANI:** I thought you did.

3 **MR. ELLIOTT:** In that set of circumstances, yes,
4 we would --

5 **DR. MAURO:** Yes, that's a different set of
6 circumstances.

7 **DR. ZIEMER:** Is that the worker who should have
8 been monitored --

9 **DR. MAURO:** Yeah, right.

10 **MR. ELLIOTT:** As a data gap.

11 **DR. MAURO:** Right. But then -- then --

12 **MR. HINNEFELD:** But then you need that number.

13 **DR. MAURO:** Applied. You see it's only within
14 that framework when we -- when we get to the
15 point where we're saying listen we have a person
16 that wasn't monitored but probably should have
17 been monitored as the examples that we just
18 talked about unless we get to the point where we
19 agree, yeah, that's true. Then the discussion
20 applies. So I say it's within that context.
21 Now, if this -- if this OTIB was designed to
22 address both issues you know, when you do it --
23 when you need a full distribution and when you do
24 the ninety-fifth percentile then I think we're
25 getting back to then I think, you know, we're

1 heading in the right direction.

2 **MR. HINNEFELD:** I don't think -- yeah I don't
3 think I kept this OTIB on my disk, I don't think
4 I have it here but --

5 **DR. MAKHIJANI:** Well it says here the purpose is
6 to assign -- well let me just read what quotes or
7 summarizes the purpose of the procedure from our
8 review. This OTIB provides guidance for
9 assigning internal doses in workers using
10 coworker bioassay data for workers who do not
11 have bioassay data where the possibility exists
12 that the worker may have experienced internal
13 exposures. So it's pretty --

14 **DR. MAURO:** It's pretty broad.

15 **DR. MAKHIJANI:** I would say that it covers both -
16 -

17 **MR. ELLIOTT:** But that's your paraphrasing of
18 what you see the purpose being of this OTIB. But
19 we ought to look at the other --

20 **MR. HINNEFELD:** Yeah.

21 **DR. MAKHIJANI:** I can download this. I can look
22 it up.

23 **DR. MAURO:** Well we -- I mean, I think we
24 understand I mean it's really a matter of what is
25 the effect of the OTIB in the narrower use. Then

1 really this is a non-issue and goes away. If
2 it's for the broader application to capture not
3 only the full distribution but also the upper
4 ninety-fifth percentile for the broader
5 application then yeah I think the discussion we
6 just had is probably -- and the solution applies.

7 **MR. HINNEFELD:** Or -- or perhaps that the special
8 question that we talked about like the Rocky
9 Flats case is an exception that has to be dealt
10 with in a site -- all -- every site has to have
11 its own specific approach with its own specific
12 dataset. And that's -- this TIB is describing
13 how to do you know, in general how to do the
14 site's dataset. If once you get to a site and
15 say let's use the Rocky Flats example where the
16 decision was made these people were exposed, were
17 heavily exposed, there's this data gap and they
18 should have been monitored but weren't, that then
19 departs you from your normal thinking and use of
20 this. Now I don't know how specific OTIB-19 is
21 about that condition whether it's a -- it
22 probably doesn't say specifically you know, only
23 use this when the situation is as we expect to
24 find it and when it turns out differently you
25 have to go to something else. I don't know if it

1 says that specifically but I think certainly
2 that's the way we behave is that you know, there
3 are certain, you know, if there's a site specific
4 set of information that makes your assumption in
5 that you use at other sites, if it makes it non-
6 attainable at that site that means you have --
7 you have to do something different there which is
8 what was done at Rocky. I think -- I think we're
9 -- we're -- we're spending a lot of conversation
10 and a lot of time here on an issue that doesn't
11 really matter much. I mean we talked a little
12 bit about parametric and non-parametric, we've
13 talked about well, if you don't use the
14 parametric then when do you really have a GSD and
15 so I don't know that this is a real big hitter in
16 the total -- in the outcome of things and the
17 true test of whether data, you know, co-worker
18 data is used appropriately would be in the
19 individual site co-worker models which are their
20 own TIB. I think that -- if we wanted to have
21 this extent of discussion I think it would be in
22 that circumstance, not here on -- on -- on the
23 document that really doesn't specifically drive
24 any dose reconstruction. It -- it -- it -- it
25 leads to the generation of other OTIBs. That's

1 what this document does.

2 **MS. MUNN:** So what's our real action item here?
3 Is it to look at clarifying for the purpose of
4 the matrix when the OTIB is used? Is that an
5 action item? Or is the action item to actually
6 compare a parametric and nonparametric ninety-
7 fifth percentile -- tell me what this action item
8 is? What will make everybody happy?

9 **MR. HINNEFELD:** See our initial response -- our
10 initial response way up at the top we said the
11 information is intended -- it was very general
12 guidance, not as a requirement. Each set of data
13 has its own unique properties and those are taken
14 into account as much as possible. So this is a
15 general direction. And so the specifics have to
16 be divined from the OTIBs that are site specific.
17 And I think this can just probably just go away
18 or be closed or whatever you want to say because
19 I don't know that any additional action needs to
20 be taken at this -- on this document.

21 **DR. MAURO:** The only scenario I want to protect
22 against and I agree with what you're saying but
23 the only scenario is one in which you're --
24 you're in a position where you're going to draw
25 upon this general guidance. Okay, and the

1 general -- but you're in a circumstance -- now I
2 don't know whether you tell me if this
3 circumstance could arise; if it can't arise then
4 it's not a problem. Circumstance where I'm going
5 to draw upon this guidance and -- and I'm going
6 to use this method to predict the ninety-fifth
7 percentile for a fixed value input into my -- for
8 my dose reconstruction and then eventually for my
9 IREP, and if the person were to derive the
10 ninety-fifth percentile using the approach that's
11 here we run into this possible problem where you
12 might be underestimating the ninety-fifth
13 percentile. That's the only circumstance that I
14 think I'm concerned about might arise. Now if
15 that circumstance cannot arise by the very nature
16 of how this particular OTIB is being used then
17 the problem goes away. But if that scenario that
18 I just described can occur then I think something
19 needs to be done regarding the possible disparity
20 between the fitted value and the rank -- the rank
21 values.

22 **MR. HINNEFELD:** Well I don't know that, that
23 situation's arised when we have used it in that
24 fashion but I don't know that it could not arise.
25 So, with an edit to OTIB-19 that would warn of

1 that.

2 **DR. MAURO:** That probably would do it.

3 **MR. HINNEFELD:** That would say this -- if -- you
4 know, if you're going to use, treat data in this
5 way to identify a ninety-fifth percentile to use
6 as a value you not only use the parametric but
7 also comparative parametric --

8 **DR. MAURO:** Yeah, I think that's the answer.

9 **MR. HINNEFELD:** And at least if the parametric's
10 higher at least determine whether the non-
11 parametric is the better one. Something like
12 that.

13 **DR. MAURO:** That certainly sounds like a
14 suggested strategy that of course you want to
15 discuss with Jim.

16 **MR. HINNEFELD:** Yeah.

17 **MR. ELLIOTT:** I think the action I hear is on us
18 to take this discussion back and include Jim in a
19 further examination of the issue now that we have
20 a better understanding of where -- where this has
21 led us. So, we'll come back to you with what we
22 think then.

23 **MS. MUNN:** Possible page change?

24 **MR. ELLIOTT:** Yeah, it could be a possible page
25 change or revision to the current -- to --

1 **MS. MUNN:** Okay. Report at our next workgroup
2 meeting?

3 **MR. ELLIOTT:** Okay.

4 **MS. MUNN:** All right, I think I've captured what
5 I believe our action item's going to be. OTIB
6 25-01.

7 **MR. HINNEFELD:** I believe this had to do with
8 breathing rates on radon breath studies, is that
9 correct?

10 **MS. MUNN:** Yes, I believe so.

11 **MR. HINNEFELD:** Okay.

12 **MS. MUNN:** Page thirty-three.

13 **MR. HINNEFELD:** Okay SC&A correctly pointed out
14 that the one point two meters per minute is in
15 fact a working breathing rate, it's a combination
16 of work and rest and that people who are giving
17 radon breath samples certainly were at rest in
18 the laboratory and they'd have to breathe aged
19 air for awhile. So the exhalation rate or the
20 inhalation rate in the formula for radium for the
21 inhalation rate (indiscernible) rate. So the
22 higher inhalation rate relate -- you know,
23 results in a higher calculated radium burden. So
24 but we certainly can change to there is an --
25 actually the ICRP does list the resting breathing

1 rate, I think it's something less than a liter
2 point five three -- we've listed it in our
3 response. And we can use that anyway as -- as
4 the -- as the breathing rate to do the radon
5 calculations, that would be the outcome. I mean
6 it's certainly something we can do. We don't use
7 that -- we don't do that many, you know, breath
8 analysis, radium, dose reconstruction.

9 **MS. MUNN:** SC&A, do you have any problems that --

10 **DR. MAURO:** Well that's -- that's where we were
11 concerned. It sounds like -- it sounds -- I
12 don't know this -- would this be in abeyance or
13 would this be closed?

14 **MR. HINNEFELD:** I guess it would be in abeyance
15 because we have a page change to make on there
16 too. Now anything done in the meantime we won't
17 go back and reconsider because --

18 **MR. MARSCHKE:** So you want to change it to the
19 lower number?

20 **MR. HINNEFELD:** Yes.

21 **DR. MAKHIJANI:** Are we sure that all the radon
22 breath samples were taken -- it wasn't like an
23 award rate or something like that?

24 **MR. HINNEFELD:** Well if you would like us to,
25 we'll leave it the way it is. We're just being

1 nice guys here.

2 **DR. MAKHIJANI:** Well I -- you know, we -- we --
3 we -- we -- we want to be precise but we also
4 don't want to correct it in a way that erase --
5 I'm just anticipating --

6 **MR. HINNEFELD:** Well it occurred to me -- it
7 occurred to me they'd say well look if we're
8 saying they're at rest we have to defend the fact
9 that they were at rest. And if we don't say
10 they're at rest then we don't have to defend it
11 and we can say well they were breathing this hard
12 when they took the test as well when they were
13 working and so if anything we're overestimating.

14 **DR. MAKHIJANI:** Yeah, I think --

15 **MR. HINNEFELD:** I got no problem staying where it
16 is either.

17 **DR. ZIEMER:** I think we have to look at their
18 procedure though. If they're going to a lab
19 they're not coming right out of the workplace,
20 they're probably going to --

21 **MR. HINNEFELD:** Probably -- they probably --

22 **MR. ELLIOTT:** It's not the lab going to them with
23 a vacuum model. They're going to the lab and
24 doing it in the vacuum.

25 **DR. ZIEMER:** And they're going to breathe some

1 bottled air or something.

2 **MR. HINNEFELD:** Usually you have to -- bottled
3 air, normally you have to breathe bottled air.

4 **DR. ZIEMER:** And how long is the sampling period
5 assigned?

6 **MR. HINNEFELD:** I don't know; I'd have to look.

7 **DR. MAKHIJANI:** It's a minute or two, it's short.

8 **DR. ZIEMER:** Yeah, short, it's very short.

9 **DR. MAURO:** So -- But that would be a lower
10 breathing rate and therefore lower release rate,
11 therefore if it's -- you --

12 **DR. MAKHIJANI:** No, you -- a higher number?

13 **DR. MAURO:** You get an underestimate, in other
14 words if you're --

15 **DR. ZIEMER:** So given outflow in the air --

16 **DR. MAKHIJANI:** You get the same amount of radon.

17 **DR. ZIEMER:** Same amount of radon for a lesser
18 volume.

19 **DR. MAURO:** Oh, okay, okay.

20 **DR. ZIEMER:** It makes the concentration look
21 higher.

22 **DR. MAURO:** Oh, I got you, I got you.

23 **MR. HINNEFELD:** Well -- in the OTIB -- in the
24 OTIB -- in the OTIB --

25 **DR. ZIEMER:** Well it's kind of intuitive because

1 --

2 **DR. MAURO:** It's less -- less air is coming out
3 but the concentration --

4 **DR. ZIEMER:** For a given count. Right now you're
5 assuming -- if you don't assume less than rate
6 you're assuming a higher volume of air associated
7 with that given count.

8 **DR. MAURO:** Right, right.

9 **DR. ZIEMER:** Okay, now if you assume a lower
10 volume of air with that given count then it looks
11 like the concentrations are higher.

12 **DR. MAKHIJANI:** Yeah, that can get the other way
13 about from what you're saying.

14 **DR. MAURO:** Yeah, I mean that's what I just
15 heard.

16 **DR. ZIEMER:** No, it -- it results in a higher --

17 **DR. MAURO:** Higher?

18 **MR. HINNEFELD:** If the key -- if the key -- if
19 the key factor is exhalation per unit.

20 **DR. ZIEMER:** Higher body burden.

21 **MR. HINNEFELD:** That's what the key factor is.

22 **DR. MAURO:** If you're looking for -- oh, are you
23 looking for atoms being --

24 **MR. HINNEFELD:** Exhalation per unit time.

25 **DR. MAURO:** Exhalation per unit of time.

1 **MR. HINNEFELD:** I think is the indicator, isn't
2 it?

3 **DR. MAURO:** So if you're --

4 **MR. HINNEFELD:** Anyway, look at -- look at the
5 form -- the OTIB has the formula for radium
6 burden and inhalation is in the numerator.

7 **DR. MAKHIJANI:** Based on type of volume, right?

8 **DR. ZIEMER:** Yeah.

9 **DR. MAURO:** Inhalation's in the numerator.

10 **MR. HINNEFELD:** Inhalation --

11 **DR. MAURO:** Going with the higher inhalation.

12 **MR. HINNEFELD:** Inhalation rate is in the
13 numerator.

14 **DR. MAURO:** All right this is --

15 **MR. HINNEFELD:** In the formula in the OTIB.

16 **DR. MAURO:** This is one of those brain teasers; I
17 have to say that. I'm trying to come up with --

18 **DR. ZIEMER:** You've come up with a concentration
19 of radon in that exhaled air and then from that
20 you go back to calculate particles.

21 **DR. MAURO:** Therefore you are being claimant
22 favorable.

23 **DR. ZIEMER:** That's right.

24 **MR. HINNEFELD:** See, you know that's right.

25 **DR. MAURO:** All right, well that didn't sink in

1 until just now unfortunately. I apologize.

2 Yeah, it says that.

3 **MR. MARSCHKE:** We'll reduce the estimate.

4 **DR. MAURO:** Because, I think we can leave it
5 alone.

6 **MR. HINNEFELD:** Be glad to do that too.

7 **MR. ELLIOTT:** I think you should look at it
8 again.

9 **DR. MAKHIJANI:** Yeah, I think we should do
10 calculations. This real time mathematics is a
11 little --

12 **DR. ZIEMER:** We had this discussion at the last
13 meeting.

14 **DR. MAURO:** We did it before and it didn't sink
15 in then either.

16 **MR. HINNEFELD:** You have a measure -- you have a
17 measured concentration and then how much air and
18 then so the inhalation rate is how much air is
19 coming out of a person who has that
20 concentration. So a higher -- a higher
21 exhalation/inhalation rate means that there's
22 more radon coming out of that person in a unit of
23 time which means that there is more ra -- you
24 know, radium giving off the radon in the body to
25 be taking out in that unit of time. All right?

1 **DR. MAURO:** I guess I was thinking about it a
2 little differently. I thought the radon flux
3 entering the lungs as sort of a constant and then
4 the more you breathe that -- you're saying --

5 **MR. HINNEFELD:** I think the -- I think the
6 presumption is that the radon is generated and
7 available for exhalation at a constant rate that
8 is directly related to the radium burden.

9 **DR. MAURO:** I -- I had a different picture in my
10 head. I'm picturing that you're breathing --

11 **MR. HINNEFELD:** Breathing as you're diluting it.

12 **DR. MAURO:** Right, that's it. But the radon is
13 entering -- you know, certain weight --

14 **DR. ZIEMER:** Oh yeah, but the number of radon
15 atoms is very small compared to the volume of air
16 so it -- there's more -- the radon's available
17 regardless of the breathing rate, it's going to
18 be exhaled.

19 **MR. HINNEFELD:** Yeah.

20 **DR. ZIEMER:** It's not like you can -- you're
21 going to saturate the --

22 **MR. HINNEFELD:** The key -- the key factor
23 actually in the numerator is actually --

24 **DR. MAURO:** I said the numerator is in the --

25 **MR. HINNEFELD:** Radon exhalation per unit of time

1 is actually -- so if you're actually getting an
2 exhalation per unit of time measurement, the
3 breathing rate essentially goes away.

4 **DR. MAURO:** You base that on -- you base that on
5 a concentration. That is you pull an air sample
6 --

7 **MR. HINNEFELD:** Exhaled air, yeah, exhaled air.

8 **DR. MAURO:** Yeah. You take an air sample and you
9 figure out here's a concentration of the radon
10 becquerels per liter in the air I just took out
11 of this person's air.

12 **MR. HINNEFELD:** Uh-huh, right, yeah.

13 **DR. MAURO:** Now from that you back calculate how
14 many atoms -- how many atoms per second are
15 leaving and from there you go directly to the
16 quantity of radium.

17 **DR. ZIEMER:** Yeah.

18 **DR. MAURO:** Now, now see I had in my mind a
19 little different visualization on this thing.
20 What you -- what you'd sample the atoms per cubic
21 meter that you have in your sample that is going
22 -- if you are breathing heavily, okay, you're
23 breathing heavily, that's going to be different
24 than if you were breathing lightly and the
25 difference is going to be that the concentration

1 is going to be lower when you're breathing
2 heavily.

3 **DR. ZIEMER:** Oh, you're -- you're -- yeah, you're
4 assuming that somehow the air is diluting --

5 **DR. MAURO:** Yeah, because the rate in which the
6 radon is leaving, the breathing process that's
7 going into the lung and it's unrelated to the
8 breathing rate.

9 **DR. ZIEMER:** Right.

10 **DR. MAURO:** So if you double the breathing rate,
11 the concentration of the atoms -- of the radon in
12 the air is going to be lower because you're
13 breathing -- it's sort of like --

14 **DR. ZIEMER:** Yeah, it's going to look like you're
15 going to have a lower body burden.

16 **DR. MAURO:** Yeah, so I have -- see I'm looking at
17 it -- I'm not -- I don't know, I don't know. So
18 I learn this stuff before the equation.

19 **MR. HINNEFELD:** Based on time.

20 **DR. ZIEMER:** I don't think the breath rate is
21 driving the radon out, it's -- it's diffusing out
22 --

23 **DR. MAURO:** So --

24 **MR. HINNEFELD:** Right, the presumption in the --
25 in the presumption in the formula is that the

1 given amount of radium in the body results in a
2 certain amount of radon exhalation per unit of
3 time.

4 **DR. MAURO:** Right.

5 **MR. HINNEFELD:** I mean that's the presumption in
6 the formula that was used in this procedure.

7 **DR. MAURO:** Right. And that -- and embedded in
8 that is the -- right, but their breathing rate is
9 not in --

10 **MR. HINNEFELD:** Well the breathing rate is only
11 in the equation because if you measure
12 concentration and exhalation --

13 **DR. MAURO:** Because you measure concentration.

14 **MR. HINNEFELD:** -- then you have to use the
15 breathing rate in order to get the radon exhaled
16 per unit of time.

17 **DR. MAURO:** I feel as if we're arguing about
18 stuff that's of marginal importance, but --

19 **MR. HINNEFELD:** We hardly ever use it anyway.
20 There are only -- there are only a couple of
21 sites where we would have the opportunity to use
22 this.

23 **MR. ELLIOTT:** Well convince yourself; I think
24 this is favorable with the human resting rate.

25 **MR. MARSCHKE:** Well (multiple speakers) equation

1 of the body burden the concentration in the air
2 times the breathing rate.

3 **DR. MAURO:** Right.

4 **MR. MARSCHKE:** Divided by --

5 **DR. MAURO:** Yeah, see that's the place I'm having
6 the problem with, see.

7 **MS. MUNN:** All right, I have an action item that
8 SC&A is going to look at the equation again and
9 the NIOSH response and satisfy themselves that
10 that response is what they anticipate it to be.

11 **MR. HINNEFELD:** Well actually what we would like
12 to do is just change our response and say we
13 aren't going to change the document, leave the
14 document the way it is; actually. I mean
15 realistically you have to defend -- if you're
16 going to say they were at rest and therefore
17 they're going to give them a lower body burden of
18 radium then you have to defend the fact they were
19 really at rest all the time that they gave. I
20 think they probably were. I think they probably
21 were but I -- you gotta defend that they were at
22 rest.

23 **MS. MUNN:** Right, so I'm -- I'm saying any
24 comments back from SC&A --

25 (multiple speakers)

1 **DR. WADE:** SC&A is working it out right now.

2 **DR. MAURO:** I'm sorry.

3 **MR. HINNEFELD:** You're working it out right now.

4 **DR. MAURO:** We'll -- we'll -- we'll look at this
5 right now --

6 **MS. MUNN:** Any comments back from SC&A by the
7 next working group, otherwise this item is
8 closed.

9 **DR. MAURO:** Exactly.

10 **MS. MUNN:** All right.

11 **DR. MAURO:** That's a fair --

12 **MS. MUNN:** Very good.

13 **SC&A AND NIOSH - OTIB-0012 WHITE PAPER**

14 Next item. Thank you Stu for the responses by
15 the way. SC&A and NIOSH OTIB-12 white paper.

16 **MR. HINNEFELD:** Yes.

17 **MS. MUNN:** You were going to look at that, talk
18 about it and give us what information we need to
19 put the right words on the matrix.

20 **MR. HINNEFELD:** Well we're -- we have looked at
21 it, we're continuing to look at it and I did
22 speak to Bob Anigstein about it, he actually
23 called me so he took the onus on himself to make
24 sure we talked. I think there are some good
25 points raised in that OTIB 12 white paper and

1 we're now evaluating you know, what's impacts,
2 possible impacts, outcomes, things like that. So
3 we don't really have a response to the white
4 paper ready yet.

5 **MS. MUNN:** All right so the action item is NIOSH
6 continue review and report to next workgroup.

7 **MR. HINNEFELD:** Yeah, now while we're talking
8 about mechanics of getting it on the matrix, I
9 guess it will stay where it is. It came out as
10 an OTIB12 finding in a particular review, you
11 know, OTIB12, so we can just put it on that. I
12 mean it didn't actually come out in the SC&A
13 product. OTIB12 became a white paper which leads
14 to that.

15 **DR. MAURO:** But it's here now. Right, later on -
16 - it emerged from one of the workgroup meetings I
17 believe.

18 **MR. HINNEFELD:** Yeah, yeah. So in this case --
19 right.

20 **DR. MAURO:** The system is to track it.

21 **MR. HINNEFELD:** This white paper -- this white
22 paper would have to be one of those other
23 documents we'd link into.

24 **DR. MAURO:** Right and we have to reference it in
25 the minutes -- that there was a white paper.

1 **MR. HINNEFELD:** Yeah.

2 **DR. MAURO:** And in theory if we can actually
3 click on that that will be great.

4 **MR. HINNEFELD:** And link it in, yeah.

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

6 **MR. HINNEFELD:** Okay.

7 **MS. MUNN:** Okay, so we'll have a NIOSH response
8 by the next workgroup meeting?

9 **MR. HINNEFELD:** I would think so. Our guy who's
10 working on it is also working on Hanford and so
11 his time is kind of split up but I think I'll
12 have something by then.

13 **MS. MUNN:** All right. Since we don't have a date
14 set up yet we can treat this --

15 **DR. BRANCHE:** Yes -- yes you do.

16 **MR. HINNEFELD:** We're meeting -- I thought we
17 were meeting in Las Vegas.

18 **DR. BRANCHE:** We're meeting -- I thought we were
19 meeting in Las -- in Las Vegas.

20 **MS. MUNN:** Yeah, we are meeting in Las Vegas but
21 that -- but that's going to be -- when I -- I'm
22 sorry, when I'm thinking the next workgroup
23 meeting I'm --

24 **DR. BRANCHE:** You mean after the next Board
25 meeting.

1 **MS. MUNN:** I was thinking after the next Board
2 meeting because I'm not sure if -- if we can --
3 if any of these things we can have ready for the
4 -- the meeting that we have before the Las Vegas
5 meeting that's great but realistically speaking
6 and knowing that the holidays are upon us I don't
7 want to overburden --

8 **MR. ELLIOTT:** We can definitely have it for the
9 following -- the meeting following that.

10 **MR. HINNEFELD:** Oh certainly we can have
11 following January.

12 **MR. ELLIOTT:** Whatever we can get we'll try to
13 present.

14 **DR. BRANCHE:** There's a February 20th conference
15 call, that's the next Board meeting.

16 **MS. MUNN:** Yeah and the Board meeting, and we
17 probably will anticipate prior to that time
18 having another of these meetings.

19 All right, that clears our deck for the before
20 lunch issues and we are a half hour early but the
21 other good news is -- and I don't want to start
22 PROC92 before lunch, we don't want to do that.
23 So let's go ahead and take an early lunch break,
24 and the other good news is one of the agenda
25 items that we had for this afternoon was one that

1 I interpreted as being a separate item from the
2 OTIB17 issue that we dealt with just this morning
3 and --

4 **DR. BRANCHE:** So it's not a separate issue?

5 **MS. MUNN:** It is the same issue. 06 was -- 07
6 was not what we were addressing, we were actually
7 addressing 06 and I did not know that until after
8 I had -- was doing my review yesterday. So we
9 may have --

10 **MR. ELLIOTT:** Got that one all done?

11 **MS. MUNN:** Yes, we have that one done, we may --

12 **DR. BRANCHE:** Early Christmas.

13 **MS. MUNN:** Yeah, Merry Christmas.

14 **MR. ELLIOTT:** That chair is so proficient.

15 **MS. MUNN:** Makes every effort, in terms of -- we
16 do the best we can, unfortunately we hired a
17 handicap. I am expecting that we will be back
18 here in one hour. We can let our people on the
19 telephone go eat as well. We'll be back here at
20 one o'clock.

21 (Lunch break, 12:00 noon until 1:08 p.m.)

22 **DR. BRANCHE:** Michael Gibson, are you on the
23 line? This is Christine Branche, Michael Gibson
24 are you on the line?

25 (no response)

1 **MS. MUNN:** Apparently not.

2 **DR. BRANCHE:** But Mr. Presley -- Mr. Presley is
3 here.

4 **MS. MUNN:** Yeah, we have Bob Presley --

5 **DR. BRANCHE:** And Paul Ziemer.

6 **MS. MUNN:** -- and Paul Ziemer and myself from the
7 Board and we're ready to proceed with our
8 afternoon agenda.

9 **NIOSH - RESPONSES TO PROC-0092 MATRIX ISSUES**

10 We're going to open with our PROC0092, with
11 status and the response to the white paper. We
12 all are aware of the importance of this
13 particular procedure and are looking forward to
14 moving through the issues. Stu Hinnefeld, would
15 you please present NIOSH's responses to the
16 matrix issue and give us an opportunity to
17 discuss with SC&A what their reaction to those
18 findings are.

19 **MR. ELLIOTT:** Could I speak first while Stu's
20 collecting his thoughts here, making sure he's
21 got the right page where -- I would just like as
22 a prelude to this I think we should make note for
23 the working group and for the record that there
24 was a technical conversation held with John
25 Mauro, Arjun, Stu and myself and John was so kind

1 to put together a set of minutes about that
2 conversation. I think they've all been shared
3 with you on the working group; is that correct?

4 **MS. MUNN:** I believe so.

5 **MR. ELLIOTT:** So I thought it was a very
6 productive conversation that we had and -- and --
7 I think what Stu and SC&A's reaction to what
8 we're going to talk about here I think our -- is
9 the product of that conversation. I'll just
10 leave it at that.

11 **MR. HINNEFELD:** Yeah, I think one of the -- one
12 of the elements we did start with I think I
13 should mention for others who are -- for the
14 workgroup and others who are listening is that
15 when we send the draft dose reconstruction to the
16 claimant and we have a closing interview with the
17 claimant we do have a certain time frame that we
18 want to finish up that process and get a final
19 dose reconstruction -- get an OCAS1 back from the
20 claimant and finish and send a final dose
21 reconstruction. So we've got a certain time
22 frame. We have a sixty day time period where we
23 try to get that OCAS1 back and if someone for
24 some reason never sends us an OCAS1 we have a
25 process called Administrative Closure where we

1 can at least be done with that claim, it doesn't
2 sit there undone forever. But Administrative
3 Closure is not done forever. For instance if
4 someone is administratively closed and later
5 provides additional information and alters the
6 dose reconstruction the claim can be re-opened,
7 you know, revised if needed and we can pursue the
8 OCAS1 process again. I'm not sure that quite
9 came across, I'm not sure it was understood by
10 the SC&A authors that, that was the -- that the
11 Administrative Closure is not really done, you're
12 done forever. It's administrative process so the
13 case looks to us as if it's done. But if more
14 information comes in then it is re-opened. And
15 the sixty day time window is not hard and fast, I
16 mean if the claimant tells us I'm gathering
17 information, I'm going to provide you
18 information, then we don't close the claim, we
19 keep it open and wait for that information. If
20 they keep telling us that and keep telling us and
21 never provide us with anything then ultimately we
22 will administratively close it.

23 **MR. ELLIOTT:** You have a grace period also.

24 **MR. HINNEFELD:** There's a two week grace period
25 following the sixty days. So once the sixty days

1 is up they are -- the claimant is notified and --
2 in writing, again the letter that says we're
3 going to close it in two weeks unless we hear
4 from you and get additional information. So
5 there is a follow up -- there's a warning at
6 sixty days and then a two week grace period
7 after.

8 **DR. MAKHIJANI:** That piece we were not aware of.
9 It was not with procedure.

10 **MR. HINNEFELD:** Yeah, right.

11 **DR. MAKHIJANI:** We had some communication lapses.

12 **MR. HINNEFELD:** We've had -- we've had -- we've
13 talked -- we've talked since the report came out
14 and we've talked about that. So that's one thing
15 I think to keep in mind when we talk about the
16 Administrative Closure part of this and I guess
17 in summary the report describes three observed
18 interviews from about a year ago, about October
19 2006; is that correct?

20 **DR. MAKHIJANI:** Yes.

21 **MR. HINNEFELD:** Yeah, October 2006. And then a
22 description of another questionable execution of
23 closing interviews from discussions that have
24 occurred during another PROC. So of the three
25 observed -- from the three observed interviews

1 there clearly was a serious issue with one of the
2 issues and the follow-up issues -- the follow-up
3 interview associated with this, it was fairly a
4 serious issue, that we are working with ORAU to
5 say you know, we need to fix things so things
6 like this don't happen. So, that's -- that's --
7 I want to tenor -- I want to give our response
8 that way, kind of give that as the -- as the
9 flavor for our response. The words on the
10 response to findings, the NIOSH response to
11 findings was prepared relatively early on, you
12 know, we promised we would have it out by the
13 middle of November and so it was prepared
14 relatively early on and perhaps and after doing
15 that and looking about at the papers some more we
16 told ORAU, listen, all these recommendations,
17 there are quite a number of recommendations for
18 improvement in the SC&A report, I want a -- we
19 want an answer on every one of those
20 recommendations that either we're going to
21 implement them or that we can't implement them
22 because it's not feasible or we don't think it
23 would be helpful or maybe we can't do that but we
24 can do something similar. So we've also had
25 that. That product we're getting in final form,

1 you know, we have received those -- that product,
2 response to recommendations. We haven't -- I
3 haven't sent it to the Board but we will as part
4 of our response to this report.

5 **MR. ELLIOTT:** That's ORAU's perspective, it'll be
6 our -- we'll sign off on it as --

7 **MR. HINNEFELD:** When it gets to say what we want
8 it to say.

9 **MR. ELLIOTT:** Yeah.

10 **MR. HINNEFELD:** I think -- yeah.

11 **MR. ELLIOTT:** It'll be a NIOSH reaction.

12 **MR. HINNEFELD:** Right. Yeah, Paul?

13 **DR. ZIEMER:** Well aside from these particular
14 findings it seems like we continue to hear what I
15 would characterize as misunderstandings by the
16 claimants as to what this actually is to begin
17 with. I don't know how widespread that is or if
18 we've just heard a few and maybe they're the only
19 ones that have this problem or if they reflect a
20 widespread view that somehow they're giving up
21 some kind of rights if they sign this thing.
22 Like well I'm not sure I agree with the dose
23 reconstructions so therefore I won't sign it or I
24 don't know if there's more information, therefore
25 I won't. It appears that the claimants often

1 simply misunderstand, I don't know what can be
2 done to alleviate that. Maybe some of these
3 things will help with that, but is that a
4 widespread misunderstanding or just a few people
5 that we've heard from in the public comment
6 period?

7 **MR. HINNEFELD:** Well it's -- it's hard to say
8 definitively. You know, I don't know if we have
9 any way of gathering effective data on that.

10 **DR. ZIEMER:** I mean most people sign that so
11 maybe that's -- it's not a widespread.

12 **MR. HINNEFELD:** I think that it would be
13 surprising if everyone who had some objection
14 with that actually spoke to you so there's
15 probably more than the specific people that
16 talked to you. But I don't know that it's
17 widespread, you know there have been I don't even
18 know how many closeout interviews we've done.
19 We've done over twenty thousand --

20 **DR. ZIEMER:** Thousands and thousands.

21 **MR. HINNEFELD:** -- dose reconstructions and each
22 of those -- many of those have multiple claimants
23 and so multiple --

24 **MR. ELLIOTT:** Each claimant gets a closeout
25 interview.

1 **MR. HINNEFELD:** Each claimant gets a close
2 interview so tens of thousands of these
3 interviews have been done and there -- a handful
4 of people have been unhappy enough with the
5 process that they've actually sent us a message
6 protesting that this wasn't done very well. But
7 that's a very small number that's done that. But
8 that's not to say that's all who are upset. You
9 know, just because somebody wasn't happy doesn't
10 mean they necessarily send a message to us and
11 say boy, I didn't like this. So, it's just a
12 little hard to get a measure of the extent of the
13 issue. I don't believe it's rampant, but I think
14 as you say you hear enough things that you would
15 conclude that it may be as you know, an issue
16 that's out there.

17 **DR. ZIEMER:** You almost only hear from those
18 folks for whom it's a problem.

19 **MR. HINNEFELD:** Yeah and -- and another thing to
20 remember is that as many parts of the dose
21 reconstruction program we feel we've gotten
22 better as time is moving on and I think that
23 additional emphasis on this -- on the matter has
24 improved over time. Now probably within the past
25 year since the observation there's been some

1 improvements and this is not something that you
2 necessarily write down every time or we don't
3 have a complete record of all the instructions
4 that are given to the interviewers because I mean
5 they'd meet in staff meetings like everybody else
6 has staff meetings and these things are discussed
7 in that context and so you don't necessarily have
8 a record of all the process changes or all the
9 admonitions that were provided to them. So it's
10 a little hard to say other than to -- other than
11 to say that certainly the people interviewing,
12 the managers of the interviewers and the project
13 managers for ORAU all are -- are very keenly
14 interested in making sure that interviews with
15 the claimants are a good experience, as good of
16 an experience as it can be for the claimant. I
17 mean this is not -- this whole program is not
18 particularly an easy process for the claimants
19 and so it's -- there's a lot of empathy on their
20 -- on their parts and a lot of feeling on the
21 parts of the project interviewers that this is
22 you know, something that we want to do well in
23 the eyes of the claimants. Complicating these
24 interviews is the fact that dose reconstruction
25 isn't really terribly well understood. It's --

1 it's hard to imagine explaining enough in a
2 conversation of you know, about a dose
3 reconstruction to a layman to provide a real
4 thorough level of understanding of what was done,
5 which is not to say you shouldn't try to explain
6 and answer the questions but I just think it's
7 almost inevitable that at some point you just hit
8 an impasse when you can't -- you just can't
9 explain it anymore, you don't know how to explain
10 it anymore. So there's some of that gets wrapped
11 up in here too, it's the difficulty of the
12 process for the lay public to understand. So
13 some of that I'm sure is wrapped up in it as
14 well.

15 **MR. ELLIOTT:** We try to very carefully explain
16 that signing the OCAS1 is not an indication that
17 they agree or disagree with the dose
18 reconstruction but they have come to a conclusion
19 in the process where they have no further
20 information to provide and there's this
21 disclaimer at the bottom of that form. One
22 measure of a level of dissatisfaction might be
23 annotated OCAS1's. When we get an annotated
24 OCAS1, and by this I mean they come back to us
25 and they say I disagree with the dose

1 reconstruction, it's all junk and you guys don't
2 know what you're doing and they put some kind of
3 commentary on it, then that defaults the -- the
4 form itself and we have to go back to the person
5 and say we can't accept this OCAS1 as submitted,
6 we explain again what the purpose of the document
7 is and that might be one measure of the level of
8 dissatisfaction. But again, you're only going to
9 get a segment of the audience.

10 **DR. ZIEMER:** But you're not getting large numbers
11 of those compared to -- I mean out of twenty
12 thousand or so dose reconstructions you probably
13 have what, less than a tenth of a percent?

14 **MR. ELLIOTT:** Yeah. Well I talk to you at the
15 Board meetings in my program report about the
16 number of administrative closed cases and that's
17 you know, it's hundreds, it's not thousands, it's
18 a few hundred. I don't know exactly what it is
19 right now but I -- so that's another measure of
20 where we --

21 **DR. ZIEMER:** Right.

22 **MR. ELLIOTT:** That measures where we've taken
23 every attempt we could to get the person to sign
24 the OCAS1 and move the claim forward even to the
25 point of telling them if you don't do this you

1 don't have an opportunity to appeal. We -- we
2 talk to them about their appeal opportunity
3 coming at DOL when their recommended decision is
4 offered and you can't get there without giving
5 this form up. So, yeah, we hear what we hear and
6 it's hard to put it into a full context of you
7 know, is this widespread, is it perverse? I
8 think one thing that I would say you know in --
9 in all of this I consistently hear things like
10 well, they never said anything in the dose
11 reconstruction report about X Y and Z that I told
12 them about. And we're -- we're trying to do a
13 better job at that, we're trying to make sure
14 that there is something in these reports that
15 speak to the fact that the claimant raised X up,
16 raised Y up and here's -- here's the -- here's
17 the way it's handled.

18 **DR. ZIEMER:** The way it's handled or why it's --

19 **MR. ELLIOTT:** It may mean nothing to the dose
20 reconstruction report but we have to say that.
21 And I'd be the first to admit that we, you know,
22 we have not done that in all the claims and all
23 dose reconstructions over the course of this
24 program.

25 Another thing we talked about with John and Arjun

1 a discussion on PROC92 and very sorry that we
2 apparently cut you off. At the moment Larry
3 Elliott is -- is expanding a bit on a great deal
4 of the interaction that's gone on between SC&A
5 and NIOSH over the last couple of months with
6 respect to this particular procedure and whether
7 we can or cannot improve upon it. Larry,
8 continue?

9 **MR. ELLIOTT:** Well I think I was done and John
10 was going to react but I can -- I can reiterate
11 if you wish me to, I don't know if it's
12 necessary. We have a record.

13 **MS. MUNN:** Not more than just -- no, a couple of
14 sentences where we are and John then.

15 **MR. ELLIOTT:** Okay, a couple of sentences of
16 where we are. I think I was remarking upon ways
17 to measure dissatisfaction from this -- this
18 particular procedure and process. I pointed out
19 that we can look at the number of annotated
20 OCAS1's as one measure, we could look at the
21 number of administratively closed claims as
22 another measure; however, I don't believe that
23 that gave us a full picture of whether or not
24 there's a pervasive problem here, a trend if you
25 will, of dissatisfaction broadly disbursed across

1 the claim population. I offered that there were
2 in our discussions, in the technical conversation
3 that we had I suggested that this review might
4 have benefited from an interaction with the
5 program folks who have been instrumental in
6 developing this -- this part of this procedure
7 and this process and talking about how it's
8 evolved over time with for example the fourteen
9 grace -- day grace period would come out in that
10 conversation I'm sure and might have led to a
11 different conclusion. But at any rate, those
12 were the -- in a capsulized form that's kind of
13 where I was speaking from.

14 **MS. MUNN:** Thank you and John Mauro was ready to
15 respond.

16 **DR. MAURO:** Yes, I -- we use that process namely
17 on the site profile review. That is once we get
18 through our first review by the team we usually
19 write down a list of questions that we'd like to
20 discuss with the authors of the site profiles and
21 this is very helpful because it helps to clarify,
22 make sure we have a complete understanding of the
23 site profile. I think the -- I think the task
24 three procedure reviews would also benefit from
25 that step in the process. Now -- now, unlike --

1 but the procedure reviews, bear in mind there are
2 a lot of them. Many of them are very, very
3 specific technically but in this particular case
4 though I think that this had -- this had a
5 broader -- there were a lot of nuances to this
6 and this procedure is run and it sounds like if
7 we would have spoken to you about it beforehand
8 and say listen, our understanding is this is how
9 it works, is that understanding correct and
10 complete and your answer obviously would have
11 been no, there's more to the story here. And I
12 think we would have really benefited in this case
13 from that conversation. I think for -- we SC&A
14 would propose that in the -- in the -- in the
15 future on these procedure reviews that we do
16 engage in some degree of dialogue with NIOSH
17 before we publish on our web -- findings.

18 **MS. MUNN:** That would seem to be reasonable. Any
19 other comments with this -- with respect to where
20 we are and what's to be done here?

21 **MR. ELLIOTT:** I think those serve as our general
22 comments and maybe Stu could go in and there were
23 five findings here that we probably ought to
24 speak to here.

25 **DR. MAKHIJANI:** Could I say one thing in regard

1 to Larry's remarks about the explanations in the
2 dose reconstruction about what the claimant had
3 said. In both -- in both the cases where there
4 were difficulties in -- in this close out
5 interview they both related to that particular
6 problem. It may not have changed the dose
7 reconstruction any but claimant in one case, the
8 observed interview that claimant provided some
9 very specific technical information then that
10 didn't get back to the dose reconstructor to
11 reaffirm, sign off that yeah we looked at this
12 again and it doesn't make a difference or we made
13 X adjustment. And the second case there was an
14 incident and there was no notation at all about
15 that and I think on both cases that was -- that
16 was the heart of the problem from -- from the
17 point of view of the reviewer.

18 **MR. HINNEFELD:** Yeah.

19 **DR. MAKHIJANI:** And so I think we have an
20 agreement -- no, I think we -- we have an
21 agreement about that.

22 **MR. HINNEFELD:** Yeah. Okay this is, well, I'll
23 start down through the list of findings then.

24 **MS. KIMPAN:** Stu?

25 **MR. HINNEFELD:** Yes.

1 **MS. KIMPAN:** This, I just wanted you to know this
2 is Kate Kimpan with the ORAU team with -- I'm
3 online as well.

4 **MR. HINNEFELD:** Okay, thanks Kate. The --

5 **MR. ELLIOTT:** We ought to ask Kate if she has
6 anything to offer.

7 **MR. HINNEFELD:** Well, she didn't hear our -- she
8 didn't hear our earlier discussion because we
9 weren't on the phone, so. Kate, at any time you
10 feel like you want to chip some -- you know, add
11 something to what I've said here please -- please
12 jump right in.

13 **MS. KIMPAN:** Thanks so much, feel free to direct
14 anything that you'd like me to respond to this
15 way as well.

16 **MR. HINNEFELD:** Okay. The first finding was
17 written that the closeout interview procedure
18 does not ensure that the claim concerns are fully
19 addressed and then it gives five, essentially
20 supporting items under that. The procedure lacks
21 specificity about when concerns are referred to
22 the HP -- referred to HP reviewer or dose
23 reconstructor, underlying data relating to
24 claimant concerns was not examined in two cases,
25 those were the two cases that we've been talking

1 about. Variable documentation of closeout
2 interview process meaning that sometimes the
3 interview -- closeout interview has a fairly
4 extensive record of what was said and other times
5 it doesn't. Substantive claimant information not
6 addressed by dose reconstructor, again relating
7 to the two cases that we were talking about. And
8 HP reviewers lacked health physics qualification
9 and dose reconstruction experience. So starting
10 down these I guess in order I think the first
11 one, the first supporting I'm hear about the
12 procedure lacking specificity is a good -- is a
13 good point. That's listed also I think as one of
14 the recommendations, if I can toggle back and
15 forth between documents here. The -- yeah, one
16 of the recommendations is that the procedure
17 should include instructions to the HP reviewers,
18 should make detailed notes, I'm sorry, detailed
19 notes. Anyway this -- the finding though relates
20 to some specificity in the procedure about when
21 to get the dose reconstructor involved based on
22 what the claimant has said and we think that's
23 worthwhile and we intend to do that based upon
24 having some years of history now with what you
25 hear in closeout interview, we should be able to

1 have enough sufficient information to know that
2 these are the kinds of things you hear and in
3 these situations the dose reconstructor needs to
4 be consulted. So that doesn't seem like that, so
5 yeah, we agree. Our -- our -- our purpose here
6 is -- is to whatever we can do to improve the
7 interview process we want to do that and you
8 know, I can talk some specifics about these two
9 claims if anybody's interested, but I think what
10 we really want to work on is what can we do to
11 improve the interview process and make sure that
12 things like that and so that we don't have these
13 situations.

14 **DR. MAURO:** Along these lines my -- my
15 understanding is that when the dose
16 reconstruction report does come out and it's
17 given to the claimant, a lot of the granularity
18 of this process is not captured. A thought that
19 I had, since that ultimately becomes the document
20 that informs them of whether they're going to
21 grant it or not, the degree to which that
22 document captures some of the bedside activity
23 whether it be certainly the CATI is there but the
24 degree to which let's say some of the dialogue
25 captured during closeout, a follow-up was done,

1 perhaps even when we do refer certain issues to
2 the -- I realize that a lot of that information
3 doesn't really go toward the end -- end product,
4 which is your probability of causation because in
5 the end it doesn't rise to the level of having to
6 redo the analysis. But the degree to which these
7 kinds of interactions are captured so that the
8 claimant would be apprised that yes we've taken
9 your commentaries very seriously, these are the
10 kinds of things we did by way of actions taken in
11 light of the information you either provided as a
12 result of the CATI or provided -- because you do,
13 do that with the CATI in some circumstances but
14 that's another subject. But now we're talking
15 about the closeout process which might trigger
16 some follow-up investigations. The degree to
17 which that's done I would say that's another
18 place where I think having a documentation in a
19 product might give the claimant the sense of yes,
20 they're really paying close attention to some of
21 the things I expressed my concerns about.

22 **MR. HINNEFELD:** I think that's a good point and I
23 think maybe as we proceed with our procedure
24 change and process modifications that we're
25 committing to here I think we can see what we can

1 do about that but you're exactly right, any --
2 any of these communications with people, the more
3 that you can demonstrate to them that we heard
4 what you told us, the better the product that we
5 receive by this. I think that's a pretty good
6 point.

7 Let's see, I think I talked about subpart number
8 one, subpart number two is underlying data
9 relating to claimant concerns not examined in two
10 cases reviewed by SC&A. Again these are specific
11 to two cases. I think the -- the point here is
12 that getting sufficient -- sufficient information
13 into the -- into the procedure and instruction to
14 the interviewers and reviewers such that to
15 ensure that the appropriate levels of information
16 are referred back to dose reconstructor. I think
17 certainly in the one case had the dose
18 reconstructor been told hey there's this other in
19 vivo result in the DOL initial case file that
20 would have been addressed and may not have
21 changed the dose reconstruction. But the dose
22 reconstructor was upholding I didn't know about
23 this one, let me see how that -- if that affects
24 anything. I think certainly that would have
25 happened and so I think we can solve this issue

1 by having sufficient direction about when do you
2 need to get the dose reconstructors involved in
3 the -- in these issues.

4 Variable documentation on closeout interview
5 process, again, is something that we feel like we
6 intend to work on and improve the direction to
7 interviewers and reviewers to make sure that
8 there's a more consistent degree of documentation
9 of that. Substantive claimant information not
10 addressed by dose reconstructor, I think that
11 falls in with number two and what we're trying to
12 accomplish in making sure that dose
13 reconstructors see that information and address
14 it. And -- and then there's a comment on HP
15 reviewers aren't really HP's and so that's well
16 taken and we think maybe a different name for
17 that -- that operation or that title or that
18 position may be appropriate. So, I think that
19 would be -- essentially we feel like there's good
20 stuff here, we intend to proceed in good faith
21 and try to accomplish some things that will
22 remediate these -- these issues.

23 **DR. MAURO:** During the interview, closeout
24 interview, to what degree does the HP reviewer
25 explain that that you know, he's -- he's really

1 there to obtain information to -- regarding the
2 completeness of the process, that is -- that is
3 receiving all this information. Does the -- does
4 the -- does the claimant understand that the
5 person that they are talking to really does not -
6 - did not do their dose reconstruction and is not
7 necessarily an expert on the dose reconstruction
8 process, but is a bridge to the expertise?

9 **MR. HINNEFELD:** I'm not real sure how -- how much
10 they disclose about that. Kate, can you weigh in
11 on that?

12 **MS. KIMPAN:** Yes. The -- the -- at least loosely
13 and I can get an extremely specific answer. John
14 I do think it's clear to claimants in most cases
15 that they're talking about their DR report but
16 that this is part of the closeout interview
17 process. Folks who are asked for their -- their
18 any input or comments if they're satisfied with
19 the explanation, I realize that we've been
20 calling these folks a thing with health physics
21 in the title and as Stu said, we'll change that
22 but I -- I -- I do think it is clear John made
23 clear to claimants that these are not the dose
24 reconstructors, certainly not the ones that did
25 their case on the telephone. It's made clear

1 that if there is salient information that a dose
2 reconstructor will review that, that will occur
3 as well.

4 **MR. HINNEFELD:** I think that took us through
5 finding number one then.

6 **MS. MUNN:** So am I -- am I hearing that there is
7 some thinking going on already with respect to
8 terminology regarding what we commonly call HP
9 reviewer up to this point?

10 **MR. HINNEFELD:** Yes.

11 **MS. MUNN:** We're -- we're changing that. Any
12 suggestions so far as to what change that might
13 be?

14 **DR. ZIEMER:** Well you need a generic title,
15 something like technical reviewer or something
16 like that that doesn't imply a -- and I'm not
17 sure that's the right word but something that
18 shows that there is a -- that they are reviewing
19 it for some --

20 **MR. HINNEFELD:** Right.

21 **DR. ZIEMER:** -- issues. What -- what do they --
22 what do these reviewers specifically look at?

23 **MS. KIMPAN:** Well, we've contemplated -- this is
24 Kate -- Larry one of the suggestions that has
25 come from my folks and we certainly welcome input

1 from this group and direction from OCAS, but one
2 of the suggestions would be closeout interview
3 specialists so there's -- we do have on our team
4 people who -- whose expertise lay with the
5 closeout interview, distinct from the intake
6 interviews. So, that would be just very clear,
7 very specific and doesn't imply to anyone that
8 it's a health physicist but rather a closeout
9 expert.

10 **MS. MUNN:** That sounds reasonable. Do we -- do
11 we have another person or a group of persons who
12 are referred to as -- as claim reviewers?

13 **MS. KIMPAN:** We do not externally have that title
14 here Wanda, but when you start using the words
15 claims and examiners or reviewers, that almost
16 always harkens to DOL. So one of the reasons
17 that we stayed away from claim but calling it
18 closeout interview is to stay unique to this
19 NIOSH, OCAS process that we're part of.

20 **MS. MUNN:** All right. All right. The closeout
21 expert sounds -- or closeout reviewer --

22 **MS. KIMPAN:** Yeah, closeout reviewer, closeout
23 specialist, whatever you know we need to look
24 obviously at you know, how we're going to make
25 certain people look properly qualified but

1 closeout interviewer, whatever this group might
2 suggest will -- we'll await Stu and Larry's
3 direction after they -- they've heard the
4 possibilities.

5 **MS. MUNN:** All right. It certainly from this
6 perspective sounds as if the closeout terminology
7 might be the better one to --

8 **MS. KIMPAN:** Agreed.

9 **MS. MUNN:** Yeah. Okay, sorry, Stu?

10 **MR. HINNEFELD:** Finding number two is that the --

11 **DR. MAURO:** Before we move onto finding number
12 two --

13 **MR. HINNEFELD:** Yeah?

14 **DR. MAURO:** Do we agree then that this finding
15 number one is in abeyance? In other words --

16 **MR. HINNEFELD:** That's my understanding.

17 **DR. MAURO:** It's probably a good idea to -- in
18 other words, it's probably a good idea to -- in
19 other words before we leave any particular
20 finding let's assign it its new name.

21 **MR. HINNEFELD:** Right, that's a good idea. Okay,
22 finding number two is the procedure makes no
23 substantive provisions for ensuring that the
24 claimant actually understands the dose
25 reconstruction and its implications for

1 compensation prior to signing the OCAS1 form.
2 You know, when the claimant doesn't -- complains
3 they do not understand the lingo. There's
4 actually two parts here; make sure they
5 understand the dose reconstruction and make sure
6 they understand the implications on the
7 compensation. I think the second is easier to
8 address than the first. The second case, you
9 know, we NIOSH, don't really decide -- make the
10 compensation decision and we have resisted saying
11 -- telling claimants that your case is -- will be
12 compensable or it will not be compensable. That
13 decision actually is made by the Department of
14 Labor. We might have some alternative language,
15 I know why this is in here and it's because of
16 one of the observed interviews from reading the
17 description of the interview it looks pretty
18 clear that the claimant ended the interview
19 believing that they were getting it
20 compensability -- they had a compensable dose
21 reconstruction and -- and when it was not. So
22 I'm sure that's why that finding is in here.

23 **MR. ELLIOTT:** Because the term claimant favorable
24 --

25 **MR. HINNEFELD:** Because the term claimant

1 favorable was used in discussing them and they
2 said oh well it's favorable, I guess I'm getting
3 compensated was the connection they made. So I
4 think that while we wouldn't say it appears that
5 your case will be compensated or not, we may be
6 able to say something like we were unable to show
7 causation based on the information or we were
8 able to show causation and -- and words to that
9 effect. There may be -- and I just throw those -
10 - those pop into my head, they've been vetted to
11 no one, okay. So we are working to vet some
12 words and see what it is we can reasonably say
13 within the constraints of you know, what we it is
14 we actually do, we don't actually make
15 compensation decisions. So there might be some
16 language that we can choose to be clear in our
17 discussion without actually indicating we've made
18 a compensation decision or even a tentative
19 compensation decision. So there might be
20 something like that.

21 **DR. ZIEMER:** And John I'd like to ask, in the
22 finding where it says the procedure makes no
23 standard provision for ensuring the claimant
24 actually understands the dose reconstruction,
25 that raises the question in my mind as to whether

1 it's our objective -- I'm not sure claimants will
2 in fact understand a dose reconstruction; I'm not
3 sure on a given case that all the Board members
4 would and maybe not all the dose reconstructors
5 would. But what did -- what was -- what is it
6 that you think the claimant should understand?
7 Is it something about how it's done or what --
8 what is it that's implied in this finding that --
9 that we can correct?

10 **DR. MAURO:** Well I'd like to pass that on to
11 Arjun because it's a really tough question.

12 **DR. ZIEMER:** I -- I -- I know you're not --
13 you're not implying that the claimant has to
14 understand how to do dose reconstruction. But --
15 but there are some facets of it that they need to
16 be cognizant of so maybe Arjun, you can help me
17 understand. I -- I -- I think intuitively I
18 mean, I feel like I know what -- what the intent
19 here is but I'm not sure it's the understanding
20 of dose reconstruction per se that we're trying
21 to get the claimant to sort of meet an
22 understanding criteria at that point. What is it
23 we need to -- what's the end point we're looking
24 for?

25 **DR. MAKHIJANI:** Obviously you know, dose

1 reconstruction is hard in all its technical
2 details and quantitative aspects and
3 internal/external and we can't -- we can't --
4 it's hard enough for a technical person to go
5 through that and understand it and Hans and Kathy
6 will testify to that and have plenty of times. I
7 think the -- the first step in that is what
8 emerged during the observation is people are
9 confused between the term claimant favorable dose
10 reconstruction and thinking they're going to be
11 compensated. That was a very unfortunate
12 confusion and that seemed to get reinforced the
13 more dose reconstruction is questioned and
14 explained in the call the more the interviewer of
15 course tries to say you know, this is all to your
16 benefit and this dose was given to you and the
17 other dose was given to you. And so I think some
18 very clear way of saying even when we do claimant
19 favorable dose reconstructions -- well the law is
20 written -- Larry and I were chatting outside if I
21 might bring that conversation in here in the room
22 a more formal way. The law is written you know,
23 for and a more likely than not proposition given
24 the ninety-nine percentiles in the tables and so
25 on, but still you have to have a significant dose

1 depending on the organ. And many can -- many
2 cancer cases are denied because of the criteria
3 set up under the law and even when it is claimant
4 favorable, that piece of explanation would
5 separate the dose reconstruction piece of it from
6 the probability of causation piece of it and I
7 think we did recommend in the report that NIOSH
8 does have an idea of what the probability of
9 causation is or whether it's compensable or not,
10 the exact number is actually not very relevant.
11 Whether it's likely compensable or not and with
12 the caveats that the Department of Labor makes
13 the decision and so on, going out of the closeout
14 interview process it seemed that there should not
15 be a confusion on the part of the claimant.
16 Because if they go in thinking signing the form
17 thinking they're going to be compensated and then
18 get a non-compensation decision then -- then it's
19 pretty bad. And I think there should be a very
20 clear way to sort the things out. You suggested
21 a couple of things in the review, Dr. Ziemer,
22 that those may not be the best choice of words
23 and may create, you know, legal issues or
24 whatever and -- and -- it's for -- for Larry to
25 say but something should be done.

1 **MR. ELLIOTT:** Well, our -- our reports -- the
2 reports that we deliver, the language that is
3 contained therein about whether or not the claim
4 is going to be compensable, is guarded language,
5 it's language that has been reviewed by our
6 general counsel's office and been blessed that
7 way so that we don't ascribe a decision to our
8 work that is really DOL's responsibility to give
9 out.

10 **DR. ZIEMER:** And which is premature in any event.

11 **MR. ELLIOTT:** Which is premature, especially in a
12 non-compensable case. But if you look at a
13 compensable dose reconstruction report I think
14 the language is clearer there that the claim is
15 going to be found to be compensable. But when we
16 look at a non-compensable dose reconstruction
17 report, it's nebulous, it's ambiguous, it's
18 difficult to discern for a lay reader, what does
19 this really mean, you know, am I going to get my
20 money or not? And we just have to take your --
21 your suggestion, your examples back to -- to the
22 desk and see what general counsel has to say
23 about them and see if there's another that we can
24 frame the language to make it clearer that we've
25 done the best job we can in the most claimant

1 favorable way that we can with reason and -- and
2 yet it's still going to fall short, we're sorry.
3 We'll have to come up with something.

4 **DR. MAURO:** I have something too I'd like to add.
5 Though that issue did not come up in the
6 interview part, one of the things that's a
7 recurring thing that we've all experienced in the
8 evening sessions is that the folks in the
9 audience and certainly the claimants who are
10 being interviewed, don't understand how could you
11 possibly do a dose reconstruction if you don't
12 have adequate records from me or that the
13 record's missing or they read our -- they'll read
14 our audit report you know, of a site profile and
15 disease problems. Now without getting into the
16 nuts and bolts, they believe that the coworker
17 model -- and the only reason I say this is from
18 sitting in on those evening sessions. They
19 believe the coworker model is the guy sitting
20 next to them.

21 **MR. ELLIOTT:** Nobody called him.

22 **DR. MAURO:** And nobody called him.

23 **MR. ELLIOTT:** Nobody called him.

24 **DR. MAURO:** I -- I -- I think that a little bit
25 of discussion that, about procedures that in your

1 particular case, in your husband's case or
2 whatever, we had very limited data you know, and
3 for that reason -- you know, for that reason it's
4 difficult and this is what we did in your case to
5 try to make sure that we reconstructed the doses
6 in a way that you know, were fair and appropriate
7 and this is -- and this is how we went about it.
8 Now without getting into the details of the
9 statistics but you know, we do have lots and lots
10 of data from people who worked in that kind of
11 job at that time period in this facility and
12 looked at that data and looked at the people that
13 had the highest exposures, I mean, you know where
14 I'm going but I'm saying I could see the person
15 at the other end of the line understanding that
16 because you can -- you keep seeing it over and
17 over again. You can't build a coworker model,
18 how could you -- the guy standing next to me, you
19 know, so I -- I don't know whether this is a
20 place where you could I guess from a grass roots
21 point of view, start the process of gaining the
22 confidence that the coworker models can be used
23 and how they -- and they can be used very
24 productively.

25 **MR. ELLIOTT:** There are several communication

1 issues here intertwined. That's one John. I
2 think another one is a much larger issue, a wider
3 spread perception that dose reconstruction is
4 something that we -- it's something they see it
5 different than the way we see it. We see the
6 language of the law saying there needs to be a
7 dose reconstruction program because there's data
8 that was -- monitoring data that was lost,
9 monitoring data that was not taken, you know,
10 data that was not kept or it was modified.
11 That's what dose reconstruction is designed to do
12 is to fill the data gaps, fill the information
13 holes and they're coming at it from well you've
14 got all the data on me and you're reconstructing
15 my dose, that we need to do a better job of
16 communicating what dose reconstruction really
17 truly is, it's filling holes, filling the data
18 gaps, it's bridging the lack of information and
19 that's what the law requires us to do. I don't
20 know if that's going to gain us any favorable
21 ground with these folks but I just see there's a
22 number of communication issues here, you brought
23 up one, I just offered another one.

24 **DR. MAKHIJANI:** There's a third piece to it too
25 where the data gap piece is very direct for

1 external dose, it's not there sometimes you may
2 have a period of non-monitoring or missing badge
3 or a bad badge or something. The internal dose
4 of course is more complicated because the intakes
5 were never actually calculated until 1989 or
6 something. So you're actually having to
7 interpret the data and calculate the intakes
8 almost from scratch, essentially from scratch,
9 you have the bioassay data in the best case but
10 still it takes a lot of interpretation and work
11 to calculate that dose, it's a non -- non-trivial
12 exercise --

13 **MR. ELLIOTT:** And a set of numbers they've never
14 seen before.

15 **DR. MAKHIJANI:** That's right. And the external
16 dose I think everybody understands, they've got
17 the badge reading, they've seen them quite often
18 over the course of their employment but the --
19 the urine data is -- has been a black box to them
20 from day one, they've given these samples and
21 they have no idea what happened to them.

22 **DR. MAURO:** Yeah, yeah.

23 **MR. ELLIOTT:** And here they get something back
24 from us that says, your internal dose to organ X
25 was... You know, how can you get there? We

1 don't believe that.

2 **DR. MAKHIJANI:** I think that is a very big issue
3 because you're doing that for the first time and
4 they never saw that in the course of their
5 employment.

6 **MR. ELLIOTT:** I think there's a -- recognizing
7 these communication issues there's an opportunity
8 for us to look at the scripts, look at the
9 communication language that's used in these
10 closeout interviews and in the CATI interviews as
11 well and see what modifications and revamping we
12 need to do to that.

13 **DR. MAURO:** And I'll say this is not an easy job
14 for the closeout specialist.

15 **MR. ELLIOTT:** Oh no, they do a heck of a job
16 given what challenge they face.

17 **DR. MAURO:** Yeah, this is a tough -- yeah, 'cause
18 I -- I mean if I put myself in the situation if I
19 was trying to -- in fact sometimes I do find
20 myself a claimant will call up and they'll be
21 very upset and I'm not quite sure how to ease
22 their mind. But it's -- in order to communicate
23 that -- that step, that is listen yes, we don't
24 have -- we didn't have data for your husband but
25 this -- this is what we did. Now how do you

1 explain that in a way that they get a degree of
2 comfort? Yeah, these folks --

3 **MR. ELLIOTT:** That you did it right and to their
4 benefit.

5 **DR. MAURO:** And that's all I'm just saying. I
6 sympathize with the difficulty in trying to get
7 that message across. But if it can be gotten
8 across and it's going to be -- it's hard for dose
9 reconstructor to you know, never mind the HP
10 closeout -- the closeout interviewer who may not,
11 I don't know how intimately familiar he is or she
12 is with that case. That's probably an important
13 point, in other words, you have to really
14 understand the case so that you could communicate
15 to the claimant what -- you know, what was done
16 conceptually here, that was special and that we -
17 - that we -- case specific as opposed to let's
18 say just giving certain boilerplate explanations.

19 **MR. ELLIOTT:** I don't know if Kate wants to speak
20 to this or not but I do believe that what my
21 understanding is, is that those folks in her shop
22 that do these closeout interviews prepare
23 themselves before they conduct the closeout
24 interview, I hope you saw that -- as part of the
25 process they look at the file. They also have --

1 and these are the HP reviewer types, but they
2 also have I believe a Health Physicist who is in
3 that -- that group that can be brought to bury.

4 **MS. KIMPAN:** Yes, that's absolutely true, Larry.

5 **MR. ELLIOTT:** Yeah, okay.

6 **MS. KIMPAN:** There also is -- I'm sorry, shall I?

7 **MR. ELLIOTT:** Go ahead.

8 **MS. KIMPAN:** There also is at their availability
9 per task five under Ed Mars* leadership the
10 ability for the people who are helping with that
11 call line to get to the actual dose reconstructor
12 or actual expert from that site in real time as
13 well.

14 **DR. MAKHIJANI:** Well, this actually -- this
15 actually we didn't -- we didn't find that and
16 that was -- there was quite a bit of commentary
17 on this point in our review is on the -- on the
18 HP -- see we had -- we didn't essentially have
19 too many issues with the first step of the
20 closeout interview, we thought that the claimants
21 were dealt with very politely and you know,
22 people tried to explain as best they could and so
23 on. There were issues of not understanding that
24 I think are -- we all acknowledge are difficult.
25 But the major problems arose with when the thing

1 is referred to the HP reviewers and what happened
2 and the fact that no one on the HP reviewer team
3 was an actual health physicist or familiar you
4 know, then the HP reviewer looks at the case and
5 none of them were -- the two managers had some
6 health physics experience in that degree so they
7 were aware of dose reconstructions and they
8 understood them and they had a level of technical
9 proficiency that -- that we were comfortable with
10 or at least I personally was. And -- but they
11 don't actually review the case, they're the
12 managers and the -- the -- but there's no health
13 physicist or dose reconstructor on the team, they
14 get involved at a second stage. At least that
15 was our understanding and that was what was told
16 to us during our communication with the managers.
17 Maybe it's changed or wasn't quite correct.

18 **MS. KIMPAN:** This is Kate. HPs get involved as
19 they are needed, it can be during a call, it can
20 be immediately after a call, it could be with the
21 reviewer in advance of a call in preparation. So
22 I'm not certain what your conclusion that they're
23 not available was based upon, but that's less
24 than accurate.

25 **DR. MAKHIJANI:** No, no, we didn't conclude that

1 they're not available in general. We -- we did
2 say they're not available in real time during the
3 closeout interview because that's what -- that's
4 what's in the procedure first of all, they're not
5 -- the procedure doesn't specify availability.
6 Secondly, that we were also explicitly told that
7 the dose reconstructor never actually directly
8 communicates with the claimant, never. And that
9 they -- they communicate with a health physics
10 reviewer when the health physics reviewer refers
11 the case to the dose reconstructor or somebody in
12 your dose reconstruction task, which is task four
13 or five?

14 **MR. HINNEFELD:** Five, five is dose
15 reconstruction.

16 **DR. MAKHIJANI:** Five. And so that was our
17 understanding. We did document our exchange on
18 that point with ORAU team and ORAU team did
19 review that documentation and sign off on that.
20 So that -- I think Kate -- maybe a review of that
21 documentation from your team's side again might
22 be -- might be useful because your team did sign
23 off on that.

24 **DR. MAURO:** I -- I -- I have one more thing I'd
25 like to add. In thinking about this and putting

1 myself in situation, when -- when you're talking
2 to a claimant the most important thing I could
3 see the closeout interview folks -- folks doing
4 and it doesn't require a sophisticated background
5 in doing the dose reconstructions. They're
6 probably going to zero -- when I look -- the dose
7 reconstruction reviews I've done, when I look at
8 them I say, okay, what -- what was the driver
9 here? You know this person's problem was
10 basically some neutron exposure, I mean, well two
11 or three that really were important because of
12 his job. And all of a sudden you make it
13 personal, in other words explaining to -- I don't
14 know if you do this, explaining to the claimant
15 that for your husband we look at -- we took a
16 very close look at his records, his operating
17 history and so on and now where we come out is
18 that -- that the situations that caused him to
19 get some exposures were as follows, and we had a
20 problem. We -- we -- we had pretty good data on
21 -- bioassay data, but we didn't have very good
22 neutron data so our real problem in your case --
23 so in other words if you had -- if all of a
24 sudden you're talking about that case and the
25 places that -- your under -- your understanding

1 and appreciation of that unique person's
2 situation and what we did to uniquely address
3 that person's condition or problem, I can't tell
4 you I know so I can talk to your doctor or when
5 they bring it home to you, this is you, we're
6 looking at you now, I don't know how much of that
7 is done and it's going to be very difficult for
8 the closeout interviewer to do that unless he was
9 involved. But I -- but I think that -- if he --
10 if that person does enough of this and is close
11 enough to the process he could appreciate where
12 the -- where the real issues were for this
13 particular case. The degree to which that could
14 be communicated to the claimant, that's -- this
15 personal treatment is what happened here and it
16 always does happen by the way when we look at
17 these cases, this is -- these are tailor made
18 very often. And I don't know, I'm just making an
19 offer that I don't know whether or not that is
20 brought into the process. But the degree to
21 which that's done I guarantee you it will
22 engender a lot of confidence.

23 **MR. HINNEFELD:** Yeah, to an extent we can, I mean
24 that's -- that's a pretty tall order, that
25 specific kind of communication at that point.

1 **DR. MAURO:** Yeah, yeah.

2 **MR. HINNEFELD:** Paul?

3 **DR. ZIEMER:** As far as the claimants'
4 understanding of the dose reconstruction process,
5 I think we clearly don't want to wait until the
6 end of things to get into that, it needs to start
7 further and I think you do supply some early on
8 descriptions of what is going to happen.

9 **MR. ELLIOTT:** Our acknowledgment packet includes
10 fact sheets about dose reconstruction --

11 **DR. ZIEMER:** All right and how it's done and so
12 on. I don't know to the extent to which those
13 are read or could be referred back you know in
14 the closeout to remind the person that this is
15 explained and this is what we do in cases where
16 there's missing data and so on. But it seems to
17 me that -- that sort of educating the claimant it
18 starts at the beginning --

19 **MR. ELLIOTT:** It has to be a continuous process.

20 **DR. ZIEMER:** A continuous process and we can't
21 just be relying on the closeout. There may be
22 some way to tie that together to remind them.

23 **MR. ELLIOTT:** Okay, well --

24 **DR. ZIEMER:** Because they have some written
25 information as I recall that in fact you made a

1 concerted effort to make that lay understandable
2 even.

3 **MR. ELLIOTT:** See, it comes at them in several
4 different forms --

5 **DR. ZIEMER:** Right.

6 **MR. ELLIOTT:** The acknowledgment packet, but
7 there's activity reports and we offer up
8 bulletins.

9 **DR. ZIEMER:** Right.

10 **MR. ELLIOTT:** And then the dose reconstruction
11 report itself under the current format, the whole
12 front end of it is an explanation.

13 **DR. ZIEMER:** An explanation of what was done.

14 **MR. ELLIOTT:** Yeah. But you're right, it needs
15 to be --

16 **DR. ZIEMER:** Then if you're going to personalize
17 it as John said you can say now in your case this
18 particular one applied where you know, we had to
19 rely on source term data, whatever it is then we
20 call attention to it somehow. Because I think
21 there's a lot of information out there that maybe
22 doesn't get digested because it still looks
23 pretty technical I think even to lay people and
24 they'll probably, say well, this is -- this is
25 sort of like when I get -- when I get my Lipitor

1 I get this fact sheet and there's no way I'm
2 going to read this fact sheet unless I have a
3 problem.

4 **DR. MAURO:** And then you take --

5 **DR. ZIEMER:** Yeah.

6 **MS. MUNN:** And there also continues to be some
7 very basic information about radiation and
8 radiation effects that are commonly misunderstood
9 by lay people. There is sort of an understanding
10 that any exposure is potentially hazardous and
11 may result in certain cancers and that -- that
12 perception is probably not often addressed in the
13 other action that we have and that others have
14 with the lay people. I don't know whether
15 there's --

16 **DR. ZIEMER:** Well you know, the technical
17 community has been trying to solve that one for
18 as long as I can remember.

19 **MS. MUNN:** That's true, and have been notoriously
20 poor at doing so.

21 **DR. ZIEMER:** Everybody thinks that somewhere
22 along the lines somebody is going to come up with
23 a magic set of PowerPoint slides that will cause
24 the whole nation to change its view and it's not
25 going to happen.

1 **MS. MUNN:** No, it won't.

2 **DR. ZIEMER:** If the opposite gets reinforced by
3 Jack Bauer reinforces it on 24 it will be --

4 **MS. MUNN:** Oh, he's not alone. There's not a
5 program on any entertainment medium that I know
6 of that doesn't reinforce that but it's -- I
7 don't -- it's hard to identify whether that issue
8 is even one that should be addressed in any of
9 this but somehow it seems listening to the
10 claimants in workshops and things of that sort --

11 **DR. ZIEMER:** Well see it's inherently built into
12 our program. We're saying that there's some
13 probability of damage at any exposure. It's sort
14 of based on that premise, you've got to get to
15 the threshold at that point of compensation.
16 That part of it I think I'm not sure what we do
17 on that, I don't think we...

18 **MR. ELLIOTT:** I think, if I could take us back to
19 another issue that we talked about earlier this
20 call for and need to have a health physicist at
21 the ready to enter into the dialogue with a
22 claimant about how a dose reconstruction was
23 performed or why a certain claimant offered
24 issue, will or will not make any change in dose
25 estimation. We have -- I think we and ORAU have

1 tried to make sure that the dose reconstructors
2 who are actually doing the business of doing dose
3 reconstruction are somewhat protected and allowed
4 to just do that work alone so that you know, we
5 can get the product done. That's not to say
6 though in my mind that there's not some other way
7 that we can you know, maybe rotate people through
8 this experience of dealing with claimants. I
9 think it would be good actually.

10 **DR. ZIEMER:** Maybe not the person who did the
11 dose reconstruction, but somebody --

12 **MR. ELLIOTT:** Not the person who did the dose
13 reconstruction but a -- a health physicist who
14 has, you know, done dose reconstructions. Maybe
15 -- Maybe you could have one on call for a given
16 facility and when an interview is done that
17 person's made aware of that call, books up on the
18 claim and then stands at the ready to deal with
19 those kind of questions. You know, there are
20 those kind of approaches that we haven't -- we
21 haven't talked about we should talk about you
22 know, with our contractor. I think there's ways
23 that we can -- we can modify and improve our --
24 our process here looking at it that way.

25 **MR. HINNEFELD:** Yeah, I think real -- real time

1 is always problematic because a dose
2 reconstructor who's not -- has not studied up on
3 the -- on the claims that are being called when
4 you first open the dose -- when you first open
5 the file it's not immediately apparent necessary
6 -- necessarily. It takes a little looking at the
7 file to understand how it was done. So, I hope
8 this is real time even not necessarily the dose
9 reconstruction but a dose reconstruction real
10 time is a little hard to -- hard to do a logistic
11 just because it's not -- it's hard -- you can't
12 just open it up and know immediately what was
13 done.

14 **DR. MAURO:** But -- But -- But the truth -- But I
15 have experienced that. Once you do four or five
16 handfuls, several AWEs or several --

17 **MR. HINNEFELD:** I guess that's true.

18 **DR. MAURO:** You know all of a sudden you -- you
19 know, I could pick -- I -- I tell you I could
20 pick it off in an hour.

21 **MR. HINNEFELD:** Yeah.

22 **DR. MAURO:** In an hour, it takes an hour.

23 **MR. HINNEFELD:** If it's the same --

24 **DR. MAURO:** To say okay, I understand this site,
25 I understand that site, I've looked at it enough

1 and then when you look at that case it'll take an
2 hour or so for you to say I think I've got it, I
3 know -- I know where the buttons are here. So if
4 you haven't though, if you're not familiar with
5 the Hanford site and have not done dose
6 reconstruction of Hanford, it may take you a week
7 to get -- warm up to that one.

8 **MR. HINNEFELD:** So it's -- and then the
9 individual, you know, the actual dose
10 reconstructor who did the dose reconstruction
11 could very well have done it weeks earlier and
12 has done dozens in the meantime. So it's still -
13 -

14 **DR. MAURO:** Yeah.

15 **MR. ELLIOTT:** But still --

16 **MR. HINNEFELD:** Still got to book up for it, so
17 yeah.

18 **DR. MAURO:** Yeah, you still have to prepare.

19 **DR. MAKHIJANI:** I think Larry's idea seems to be
20 you know, creative kind of dealing with the
21 logistics of keeping the dose reconstructors
22 insulated and also doing their job and moving the
23 claims through. But I think some contact with
24 claimants would be helpful and if you could ro --
25 consider rotating people through. I think in

1 most cases, I don't know, this is a guess
2 obviously, the claimants don't necessarily want
3 to talk to a dose reconstructor, in most cases
4 everything can go smoothly or things can be
5 referred to a dose reconstructor or -- or health
6 physicist or for later dealing with claimants.
7 But the idea that there may be somebody available
8 may be very useful.

9 **MR. ELLIOTT:** Why not -- I mean another way to
10 change this or to correct it would be an
11 organizational change in that team unit and if
12 you add a position as a health physicist then
13 that person's only job is to deal with the
14 interviews at hand for the day and make sure
15 they're ready to respond to issues that are
16 brought up you know, impromptu, from the
17 claimant. I just think that would be -- that's
18 not the way to go I think 'cause - 'cause I don't
19 believe that a position so created would be fully
20 employed. I think there -- you know, we need to
21 have somebody at the ready, but you're probably
22 going to be booking up and then not even get
23 called that day.

24 **DR. ZIEMER:** Well you have no guarantee that,
25 that will help the situation at all. There are

1 many technical people that will make it even more
2 confusing --

3 **MR. ELLIOTT:** Well there is that.

4 **DR. ZIEMER:** Because they will be so technically
5 correct.

6 **MR. HINNEFELD:** Why are you looking at me when
7 you're saying that, Paul?

8 **DR. ZIEMER:** Well I'm trying to get inspiration
9 from your look to see whether I'm on the right
10 track here, or it's like you always have to have
11 people who are teachers and they're -- and I know
12 some really good technical people and they are
13 the worst teachers in the world.

14 **MR. ELLIOTT:** It takes a special personality to
15 do what these folks do.

16 **DR. MAURO:** I -- I suspect your closeout
17 specialists have those skills and it just -- they
18 may have to put in an hour or two on their own or
19 maybe even talk to the dose reconstructor and say
20 okay, tell me about this dose reconstruction,
21 give me a little more personal touch. And he
22 could -- he probably do -- once he has it because
23 really we're looking at the big picture. You
24 don't want to get into the OTIBs, you know, you
25 want the big picture. Where are the pressure

1 points on this one and where are the problems,
2 where are the challenges? And I guarantee, I
3 just feel that the specialists who are talking to
4 these people they're probably really good at it
5 and all they need is a little bit more
6 information regarding that case and when they're
7 on the phone with that person I guarantee you
8 that person -- you'll be able to hold that
9 person's hand a little better, walk them through
10 why we had to do what we did. Sure you want to
11 have the dose reconstructor on call if you need
12 them but I think there's an awful lot the
13 specialist can do.

14 **MR. ELLIOTT:** I think this is a good discussion.

15 **DR. WADE:** See one of the things it always comes
16 down to is resource expenditure within a limited
17 resource mix. I mean it's tough. There -- There
18 are certain fundamental issues that -- that --
19 that exist; John hit on one of them which is how
20 can you reconstruct -- how could you possibly
21 reconstruct my father's dose when -- when there
22 were records missing? I mean there -- that's a
23 fundamental question that no matter how skilled
24 you are, you're not going to answer. The other
25 thing we hear all the time is that I worked there

1 and I got cancer, there's no cancer history of
2 cancer in my family. What -- How are you --
3 you're not going to explain it. You're just not
4 going to explain it. So the -- the question is
5 deciding those areas that it's worth making
6 additional investment in. Now, it seems to me
7 from listening to all this that -- that getting
8 the communicator a bit more up to speed on the
9 case is a good thing. And maybe, I don't know,
10 they -- they probably have dealt with these sort
11 of gut issues like how -- how can you reconstruct
12 my dose when you don't -- when there's something
13 missing. I don't know if they're prepared to
14 talk about those things or not. But again you're
15 never going to get this completely right
16 unfortunately and -- and there's work to be done
17 and that's the dilemma here. It's a tough one.

18 **MS. MUNN:** But whether the information that is
19 given is completely accepted by the claimant, it
20 still seems to be incumbent on all that are
21 involved in this process to repeat at every
22 possible opportunity that all the best science
23 that is known leads us to the information that it
24 is not necessary to have had a background of
25 cancer in your family for you to have had one and

1 it is not necessary for -- for this -- for anyone
2 to believe that you would not have had cancer had
3 you not worked at this position. That's --
4 that's -- those are realities that whether
5 they're acceptable or not it appears necessary
6 that we repeat those realities.

7 **DR. WADE:** I think that's something to think
8 about. One last comment because I think this is
9 one of the main issues remaining and what -- what
10 encourages me so much is you've got the SC&A team
11 now who is completely vested in this and cares
12 deeply about these people and has experienced
13 something and now you're at the table with the
14 NIOSH ORAU people who are completely vested and
15 care about this and this is the best group in the
16 world to imagine a path forward but there's no
17 easy path forward. But -- so this is a very
18 important discussion. Where it goes I don't
19 know, but these are the right people to be
20 talking about it anyway.

21 **MS. MUNN:** Where it goes is the problem for me
22 because I'm not certain what action comes out of
23 this discussion of our -- our item two. We have
24 talked about being in abeyance and some language
25 change with respect to title but --

1 **DR. WADE:** I'm going to -- and I'll speak up more
2 than I should. I think one of the things I'd
3 like to see happen is upon reflection I'd be very
4 interested in what SC&A thinks should be done.
5 And I would be very interested in NIOSH's
6 reaction to that and very interested in the
7 Board's reaction to that. Again, we all care
8 about this and again, this is -- this is a time
9 when we each need to speak, the other listen and
10 then -- and then move forward. So I'd be very
11 interested in SC&A's reaction.

12 **DR. ZIEMER:** One of the reactions and I think
13 it's a good one John suggested in making sure
14 that needs are personalized in the sense of
15 saying in your case this is what was looked at
16 and this is how something was valued. I think
17 that's got to be part of it. To some extent it
18 already is, but to the extent to which the person
19 feels like their issues aren't being dealt with
20 it becomes very important. Secondly, I think
21 changing the nomenclature will help to the extent
22 that the reviewers are not being challenged as
23 being something they're not. And if they face an
24 issue which is beyond their technical
25 capabilities they ought to be in a position to

1 say I'm going to go back and make sure that, that
2 question gets answered for you, but I can't
3 answer it directly, but I'm going to get a dose
4 reconstructor who will provide that. There's no
5 reason that we have to be able to answer
6 everything.

7 **MR. ELLIOTT:** And the clock is not ticking on the
8 sixty days for you to turn the OCAS1 around.

9 **DR. ZIEMER:** Right.

10 **MR. ELLIOTT:** We'll get back to you.

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

12 **MR. ELLIOTT:** There's no pressure here on you to
13 turn over your OCAS1.

14 **DR. MAKHIJANI:** That I think -- those -- those
15 things I think would -- would mitigate a lot of
16 understanding.

17 **DR. ZIEMER:** A lot of them, I mean there's a
18 number of things that have come out here I think
19 that in ORAU has heard them and NIOSH has heard
20 them and it seems to me that in some form could
21 be incorporated maybe on a trial basis to see if
22 they improve things.

23 **DR. MAKHIJANI:** Well, and the third thing I think
24 that Larry said that I thought was very helpful
25 was that to go you know, understanding that the

1 legal counsel of HHS has signed off on this
2 language that's quite vague in the case of
3 denials or likely denials, that some more clear
4 way of communication that would pass legal muster
5 would be very good. I think -- I think that --
6 that would prevent a lot of the misunderstandings
7 that do occur, at least from the observations
8 that we have. I think those three or four items
9 would -- would fix what's fixable, I mean.

10 **DR. WADE:** Maybe that one issue -- I mean maybe
11 there are three actions that have come from this
12 that NIOSH is going to take to heart.

13 **MR. ELLIOTT:** I think that we've committed to
14 them here in our responses and we're saying that
15 we're going to look at the procedure and revise
16 it accordingly. You know, I think what needs to
17 happen is we need to do that and bring back the
18 revised procedure, tell you how we're going to
19 improve it based upon these comments that we've -
20 - we've heard.

21 **DR. MAURO:** I have one more thought that I wanted
22 to pass on and that is when the -- at some point
23 in the process is there any provision to get
24 feedback from the claimant? Do they feel as if -
25 - and this may even be after the -- after the

1 adjudicated decision is made. Do they feel as if
2 that their claim -- and did we say we have twenty
3 thousand adjudicated claims that have been
4 processed, about twenty-five percent have been
5 granted and about seventy-five percent you know,
6 some -- certainly large factors still in the
7 process but some a larger fraction are not. One
8 of the -- I mean they always say if you don't
9 measure it you really don't know, is there any
10 way to get -- are you getting some kind of
11 feedback on the degree to which they feel as if
12 their claim has been processed? Is there -- is
13 there a unanimous dissatisfaction amongst all the
14 people that were denied or is there a substantial
15 fraction of the people that were denied that feel
16 no, I think you guys did the best you could and
17 we accept your finding?

18 **MR. HINNEFELD:** Well, I don't know because we --
19 I don't know that we've measured it.

20 **MS. MUNN:** I'm not sure how you could measure
21 that kind of thing.

22 **MR. HINNEFELD:** That would be --

23 **MS. MUNN:** With any kind of specificity.

24 **MR. HINNEFELD:** If in fact you wanted to get that
25 feedback after adjudication.

1 **DR. MAURO:** Yeah.

2 **MR. HINNEFELD:** Boy, that would be another --

3 **MR. ELLIOTT:** No, I don't think that --

4 **MR. HINNEFELD:** That's not something we just do
5 casually. I'm not saying it's not a good idea,
6 it's not something we can do casually though I
7 mean because then you're collecting information
8 from thousands of people and the government
9 normally doesn't like you to do that.

10 **DR. BRANCHE:** Does the Department of Labor have
11 it in its bridgement office?

12 **MR. ELLIOTT:** That only deals with party
13 supposedly.

14 **DR. WADE:** But even -- even if you could get it,
15 what would you do with the answers?

16 **DR. MAURO:** Well you'll find out whether or not
17 the kinds of things we're talking about as we've
18 put it into the program and do a little bit more
19 of these kinds of things, are they -- are they
20 reaping benefit?

21 **MS. KIMPAN:** John, this is Kate.

22 **DR. MAURO:** Yeah?

23 **MS. KIMPAN:** The only research I know on this
24 topic was conducted by the Upjohn Institute in
25 Michigan. It has to do with claimant

1 satisfaction and worker's compensation programs
2 which this is one and the finding was and it's
3 singular, it's not been replicated a lot in my
4 observation, was that claimants did not appeal
5 their work comp cases based on a positive and
6 negative outcome. They appealed based on whether
7 they quote believed they had been heard or
8 listened to.

9 **MR. ELLIOTT:** Was this program included in that
10 review, Kate?

11 **MS. KIMPAN:** Absolutely not. This is the only
12 research I know of that type, Larry.

13 **MR. ELLIOTT:** Well we -- we would have seventy
14 percent of the twenty-thousand that have been
15 processed you know in a category that have been
16 denied, seventy percent.

17 **MS. KIMPAN:** Right.

18 **MR. ELLIOTT:** And of those seventy percent I have
19 no idea how we could gauge the level of
20 satisfaction -- one way we could tell you what
21 our good letter file looks like, it's about this
22 thick. We could tell you what our bad letter
23 file looks like and you know how that goes. We
24 can tell you that we hear loud voices from a few.
25 I don't know where we go to try to -- you know,

1 we can't -- OMB won't let us go back and do a
2 follow back on the claims that have been
3 adjudicated without having an OMB approved
4 package to do so and that'll take your guess is
5 as good as mine, you and I may be retired before
6 we get that approval. So, you know, I --

7 **DR. WADE:** Even then, I mean, even if you could
8 do it -- I'll accept your fact that in a process
9 controlled world you could say if I had that kind
10 of mechanism to gather feedback regularly I could
11 tweak the system and I could look for change in
12 my tweaks. I mean that's a good thing, but --
13 but that's not here, that's not the way this is
14 going to work. You might be able to get one
15 snapshot of it, but you're certainly not going to
16 be able to control the verney (ph) on the
17 process.

18 **DR. MAURO:** Well, you know I was looking at it
19 more from the point of view is I like after I go
20 and I rent a car or have some work done on my
21 house and then all of a sudden the person calls
22 you back a week later and said, listen, are you
23 happy with the work? See, I like that and I feel
24 good about that, all of a sudden I'm -- I'm --
25 I'm -- you know. This is almost the same kind of

1 thing.

2 **DR. BRANCHE:** Is it? People aren't buying your
3 product.

4 **DR. ZIEMER:** I don't -- I don't agree with that
5 actually. No, because you pay for a car rental
6 or a truck rental.

7 **DR. BRANCHE:** And you got to choose from whom you
8 could purchase.

9 **DR. MAURO:** After I finish the pro -- well --

10 **MR. ELLIOTT:** You went into it expecting a
11 quality successful response to your need.

12 **DR. MAURO:** Yes.

13 **MR. ELLIOTT:** I don't know what these people
14 expect. They expect to be compensated.

15 **MS. MUNN:** Well most of them expect compensation;
16 I suspect otherwise they would not file a claim.

17 **DR. MAKHIJANI:** There's another level of problem
18 with this proposal I think, and I'm thinking out
19 loud like everybody else. You know, people who
20 are being denied, many of them already feel very
21 aggrieved and aggravated, the process is very
22 difficult and then you're going to be contacting
23 them in a way that's not going to benefit them in
24 any way. Their case is already closed, it's been
25 settled, they have an appeal, and now you're

1 making them go through another hoop for your own,
2 you know, the government coming back into their
3 lives to hassle them one more time.

4 **MR. ELLIOTT:** I think it almost expect what you
5 hear.

6 **DR. MAURO:** Okay, never mind.

7 **MS. MUNN:** Well I have three items on this
8 particular review segment that include SC&A
9 taking a look at this offline and getting back to
10 us with some suggestions about what the
11 contractor feels might be done to improve things
12 with a NIOSH taking a look at whether or not some
13 revisions to the procedure would be helpful and
14 the OCAS language change, possibilities on that
15 one. But we can probably discuss this most of
16 the afternoon.

17 **DR. MAKHIJANI:** Ms. Munn, do we have a to do item
18 before NIOSH revising that procedure or our
19 suggestions?

20 **MS. MUNN:** We're not -- we're not talking about
21 revisions.

22 **MR. HINNEFELD:** Well, there is a -- we are
23 talking about revising the procedure to
24 incorporate some of these things.

25 **DR. MAKHIJANI:** Yeah, I heard you are saying, do

1 we have something to do to communicate --

2 **MR. PRESLEY:** Yeah, I don't think you're going to
3 revise that procedure. This is Bob Presley,
4 until you get some recommendations back, are you?

5 **MR. HINNEFELD:** Well, they sent us -- I mean --

6 **MR. ELLIOTT:** Yeah, we have the recommendations -
7 -

8 **MR. HINNEFELD:** The report includes
9 recommendations for improvement on each of these
10 findings.

11 **DR. MAURO:** Yeah, right.

12 **MR. ELLIOTT:** We've found some of those to be
13 very, very beneficial, we want to do them.

14 **DR. MAURO:** This is -- this was triggered by
15 Paul, one of the items you have mentioned, it
16 seems like you hooked onto the idea of
17 personalization. Now I don't know whether or not
18 we've captured that in any of our recommendations
19 or not but I guess over and above the
20 recommendations that we've made we have had a
21 chance to cogitate on all this and there may be
22 certain items that come out of this conversation
23 that maybe we'd like to supplement our
24 recommendation.

25 **DR. MAKHIJANI:** That -- That'd be --

1 **DR. MAURO:** That's -- an action item I would yes
2 we will supplement our recommendations based on
3 some of the ideas we've discussed around the
4 table today such as personalization.

5 **MS. MUNN:** All right. I think the next item may
6 have already been fairly well covered by what we
7 have been discussing, finding number three.

8 **MR. HINNEFELD:** All right, finding number three
9 is --

10 **MR. ELLIOTT:** Variable documentation --

11 **MR. HINNEFELD:** Signing the OCAS1 form.

12 **MS. MUNN:** The OCAS1 form.

13 **MR. HINNEFELD:** The fact of signing the OCAS1
14 form if it's not been signed before occurs in the
15 context closeout interview may create pressures
16 on our own personnel to get signature. You know,
17 you can speculate to that, we don't believe it
18 happens. We believe that the interviewers tell
19 claimants don't sign the OCAS1 if you've got
20 questions because we're going to answer them.
21 The fact that yeah, we do want to make progress
22 but at the same time, you know, this is a step in
23 the process and I don't know that there's any
24 particular pressure felt by the interviewers.
25 They don't have a quota you know, get so many

1 OCASIs this week, so there's -- I don't know that
2 there -- I don't know how you -- we don't believe
3 that's the case, we don't believe they're
4 pressuring for production.

5 **DR. MAURO:** I'm going to take responsibility.
6 When I read the dialogue that was written up,
7 question, answer, question, answer, I said and --
8 Arjun and I spoke on the phone I said you know
9 Arjun when I read this and then I'll take -- I
10 read it as if this the person on that end feels a
11 degree of pressure to get this form filled.
12 Almost to the extent that they feel as if that's
13 the real reason for making this call. And -- and
14 -- and anything else that would divert from that,
15 but maybe I have to slow down the process a
16 little bit, they'll talk to the dose
17 reconstructor; there's a lot of things that have
18 to be done and that could take some time. I got
19 -- I mean, I'm just telling you when I read that
20 dialogue, not any of the written around, just the
21 dialogue I got the sense that, that was what's
22 happening, at least in that case. You know, what
23 can I say, that's what I came away with.

24 **MR. HINNEFELD:** Well, I -- I can -- I don't know,
25 I -- of course I didn't listen to the interview,

1 I read the transcripts and the report. I guess
2 arguably the interviewer referred to the OCAS1
3 more than you would have liked in that context.
4 But of course in that interview -- we're also
5 reading that interview with the knowledge that
6 there should have been a pursuit of other
7 information. This is -- this is the one where
8 they went through the follow-up interview, right?

9 **DR. MAURO:** Yes.

10 **MR. HINNEFELD:** We're reading it with the
11 knowledge that they're really -- this guy should
12 be looking for that new piece of information,
13 should be asking the dose reconstructor about
14 that new information and he keeps asking her
15 about the OCAS1.

16 **DR. MAURO:** That's correct.

17 **MR. HINNEFELD:** So I think our knowledge of the
18 situation may influence our reading of that -- of
19 that -- of that interview a little bit. I just
20 don't think it's a -- a -- a -- an endemic issue.
21 I don't think it's one that happened. I don't
22 think it's one that we do. I don't think
23 interviewers feel that pressure and --

24 **DR. ZIEMER:** There's no incentives put out for
25 them to get the closure on anything. There's no

1 rewards.

2 **MR. HINNEFELD:** No.

3 **MR. ELLIOTT:** We could look at this as an example
4 and say make a modification here that when --
5 when the claimant raises up an issue that needs
6 to be referred to a dose reconstructor you should
7 dispense with talking about the OCAS1 at that
8 point. In fact you should say okay, fine, we're
9 going to hold -- you're not under a sixty day
10 clock to get us the OCAS1, you know, there's a
11 whole new script that comes to play in the
12 dialogue.

13 **DR. MAURO:** I like that.

14 **DR. MAKHIJANI:** I think this would solve the
15 problem because I think that Stu is right that in
16 the background we do you know, I didn't think of
17 it that way before, but it -- it may color how we
18 interpret the conversation. Where if you feel as
19 I do and honestly I did feel that that matter --

20 **MR. ELLIOTT:** Well I could see how the claimant
21 would feel that way.

22 **DR. MAKHIJANI:** Yeah.

23 **MR. ELLIOTT:** Wait a minute, I've just raised an
24 issue with you and you're still beating me up
25 about signing this silly form? I want to hear

1 back from you all about my issue. I'm not going
2 to sign your form until you give me my issue.
3 And so I could -- you know, I could see how this
4 could be perceived.

5 **DR. MAKHIJANI:** Yeah. I think that if the clock
6 were stopped until the specific substantive issue
7 were resolved, I think that would -- that would -
8 - that would resolve the issue.

9 **MS. HOMOKI-TITUS:** Larry, this is Liz Homoki-
10 Titus. I'm sorry to interrupt, I just want to be
11 sure that everyone understands the time frame
12 here. Changes to the script are probably going
13 to have to go through OMB approval again. So we
14 want to be sure that we have kind of everything
15 together and everything finished before you all
16 send it up.

17 **MR. HINNEFELD:** We don't have a script for the
18 closeout interview.

19 **MR. ELLIOTT:** We don't have to give a script to
20 OMB either.

21 **MR. HINNEFELD:** No, there's no script. A script
22 is for the beginners, the initial interviews,
23 CATI, the CATI. But there's no script on a
24 closeout interview.

25 **MR. ELLIOTT:** The OMB involvement here is on the

1 CATI interview questions, a computer assisted
2 telephone interview questions. There is no OMB
3 approved document used in the closeout process.

4 **MR. HINNEFELD:** Right. This closeout process is
5 not designed to obtain information from people,
6 it's designed to explain to them what was done in
7 their dose reconstruction. Since it's not
8 designed as an attempt to collect information I
9 believe that's probably why -- well, A, there is
10 no script and B, since we're not collecting
11 information from thousands of citizens, OMB I
12 believe is not involved.

13 **MR. ELLIOTT:** The scripts I'm mentioning are
14 standard communication messages that we use in
15 instances where people hear a claimant raise this
16 up, direct a comment -- comment in this way. It
17 goes to our public health advisors, it could find
18 its way into a closeout interview as here's the
19 standard response if that question is raised or
20 if that concern is raised. That's the script I'm
21 talking about.

22 **MS. MUNN:** So this is essentially a memorandum or
23 training information.

24 **MR. ELLIOTT:** Yes.

25 **MS. MUNN:** That needs to be conveyed and --

1 **MR. ELLIOTT:** Well when you face this set of
2 circumstances in an interview this is how you
3 handle it.

4 **MS. MUNN:** Correct. And so our action item is to
5 see that this information is transmitted to the
6 people who do the closeout interviews, right?
7 I'm not sure exactly what the formal method of
8 assuring that that information is transmitted.

9 **MR. ELLIOTT:** I think it goes to the revision of
10 the procedure to a certain extent, right? The
11 revision of the procedure should attend to that
12 to a certain extent. It may not present here's
13 the communication message but it would have to
14 say at least if the claimant raises an issue this
15 is the step you take next; take these steps. You
16 say fine I'll do -- that -- that is a substantive
17 issue toward dose reconstruction I'll have to get
18 a health physicist to advise on how that should
19 be handled. The clock on the -- on the sixty day
20 time frame for you doesn't -- is not ticking and
21 you don't have to worry about your OCAS1 right
22 now. Those are the steps that you know, we need
23 to incorporate into this procedure right now.

24 **MS. MUNN:** And so we will see from NIOSH the
25 suggested change in the procedure that will

1 address this. Good.

2 **MR. ELLIOTT:** You may or you may not see the
3 communication scripts I was referring to.

4 **MS. MUNN:** Yeah, I understand that. The
5 procedure will do it; that's all that's
6 necessary. I have urgent requests for a fifteen
7 minute break. We will reconvene in exactly
8 fifteen minutes.

9 (Break from 2:33 p.m. until 2:46 p.m.)

10 **DR. BRANCHE:** Hi, this is Christine Branche and
11 Ms. Munn is ready to start again. Is this line
12 open, I just want to make sure? Someone could
13 let me know that they can hear me.

14 **MS. KIMPAN:** Kate Kimpan can hear you.

15 **DR. BRANCHE:** Thank you.

16 **MS. MUNN:** We're beginning item number four,
17 procedure 0092, procedure does not ensure
18 claimant has all the information that was
19 essential, and NIOSH, response?

20 **MR. HINNEFELD:** Well this is -- this is a little
21 more difficult to accommodate. All the
22 information that was essential to the dose
23 reconstruction is really a lot of information. I
24 mean that's really voluminous. The -- you're
25 talking there could be site profiles which are

1 available on the website but you know, that's
2 asking a lot to tell them you know, go look at
3 the website. If you had the site profile,
4 figuring out how that relates to your dose
5 reconstruction is pretty difficult. Even the DOL
6 response when we ask if it's a claimant who's
7 been monitored and DOL provides us exposure
8 records.

9 **MR. ELLIOTT:** DOE.

10 **MR. HINNEFELD:** DOE I mean. The DOE response
11 when you get an exposure record from DOE they --
12 some of those run over two hundred pages so --

13 **MR. ELLIOTT:** And they don't contain -- in those
14 entirety of the two hundred pages may not -- may
15 contain other individuals' dose information.

16 **MR. HINNEFELD:** Some might. Some might.

17 **MR. ELLIOTT:** So there's a redaction issue that
18 we would face there.

19 **MR. HINNEFELD:** Yeah. So this -- this is kind of
20 problematic and -- and so maybe -- I don't know
21 what to propose here. Maybe if you've got some
22 specific ideas about what is it that would help
23 the claimant the most. You know one thing that
24 has occurred to me if the dose reconstruction
25 would say the exposure record we received

1 indicates that you were monitored from this date
2 to this date, you know something like that, to
3 tell them what -- how to complete the record.
4 And that your dose was recorded as such -- you
5 know, this was the dose that the DOE reported to
6 us. Things like that and then you have to really
7 kind of specify whether you're talking about
8 external or internal but there are a few -- a few
9 categories of information you could provide
10 perhaps in a dose reconstruction that would allow
11 them to have some idea about the information that
12 was used in their dose reconstruction. Kind of
13 addresses this to a certain extent. But I was
14 just wondering if you've got -- I mean you guys
15 are familiar with the -- with the records and the
16 kinds of records that are in a case file and the
17 site profiles and things like that, if you could
18 maybe provide a little more insight into what --
19 what can be most helpful to the claimant in this
20 situation.

21 **MS. MUNN:** Well the question arises, if it
22 doesn't ensure that the claimant has all the
23 information what could one put in a procedure
24 that would ensure that?

25 **MR. ELLIOTT:** What is the information you need?

1 **DR. MAURO:** I would argue that, that can't be
2 done, I mean I would -- I think that the intent
3 here is a little different than what's being
4 discussed right now. The claimant has to feel
5 confident that all the essential information that
6 was available was in fact used and used
7 appropriately. They don't need to know all the
8 information that was actually used because some
9 of that information is extremely obscured and
10 impossible to understand.

11 **MR. HINNEFELD:** Right.

12 **DR. MAURO:** So what -- what I really see here is
13 to make sure that the claimant has a sense that
14 all of the really important relevant information
15 relative to this case and all of these exposure
16 conditions that were reported to this case was in
17 fact properly addressed. And that goes towards
18 personalization and or so what I see this is as
19 really as an extension of personalization. That
20 is they -- they -- somehow it needs to be
21 communicated to them what was the kinds of -- as
22 you started out saying, what were the kinds of
23 information that were used? Now the level of
24 detail you go into I think is on a higher level,
25 a (indiscernible) level, not in the weeds, and

1 what the issues were, whether there were
2 incidents involved or whether -- I'm not quite
3 sure how far you would go. But at the end of
4 that conversation the claimant should feel that
5 they understood that it was thorough and that all
6 of the important information was looked at and
7 analyzed. I don't think it's fair to expect that
8 all of the real information was really used is
9 communicated to the claimant, it's impossible.
10 It's just too -- you know, some of these cases
11 you know, you know the detail is truly
12 incredible. So I would like to maybe and I don't
13 want and Arjun certainly step in but I think that
14 the intent is not -- the intent is more that the
15 claimant feels that all of the important
16 information was in fact covered and have a sense
17 of what that is and was.

18 **DR. ZIEMER:** Does this go to the issue of items
19 that they may have brought up in the CATI?

20 **DR. MAURO:** Yes.

21 **DR. ZIEMER:** And then they're looking for somehow
22 that that has played a role in the dose
23 reconstruction that they say my husband, my wife
24 was in this blowout --

25 **DR. MAURO:** Yes.

1 **DR. ZIEMER:** -- And there's no reference one way
2 or the other that that was considered. Is that -
3 - Larry you kind of addressed this earlier I
4 think, the issue of acknowledging items that may
5 have been raised and indicating why or why not
6 they may have not affected the final outcome or
7 something like -- is this the same issue?

8 **MR. ELLIOTT:** Well I don't -- I think it's part
9 in parcel, I don't think it's totally the issue.
10 As I hear John talk I think it's personalize the
11 dialogue, the interaction with the claimant in
12 the closeout interview to the point that each
13 claimant can walk away and say okay, I understand
14 what was critical in doing this dose
15 reconstruction, what information that they had to
16 work with and what information that they
17 developed to make a dose estimation on my behalf.
18 That's what I hear John saying and certainly of
19 course what you just brought up that I mentioned
20 earlier if they raise an issue and it needs a
21 dose reconstructor's attention and response to
22 that then that should be something that's also
23 included back to the claimant so they -- they do
24 feel comfortable and understand how they -- they
25 -- the issue has been addressed or reacted to.

1 **DR. MAKHIJANI:** Well I think -- I think this
2 could work in some situations where you're
3 actually doing what we call best estimates. But
4 in most cases of denial we're really talking
5 about the cases that are being denied because the
6 cases that are likely compensated I agree with
7 Larry that the language is reasonably clear and
8 people know they're going to be compensated,
9 there are not too many questions about that. But
10 in most cases, at least in my impression we're
11 doing the efficiency --

12 **MR. ELLIOTT:** Overestimates.

13 **DR. MAKHIJANI:** Overestimates, and that -- and in
14 efficiency overestimates you're very often not
15 using the individual data by -- by definition or
16 you're not using a large -- some portion takes
17 typically an internal dose you might not use any
18 other bioassay data on the idea that TIB2
19 suffices.

20 **MR. ELLIOTT:** But we do go to great --

21 **DR. MAKHIJANI:** I'm -- that creates some problem
22 in explaining -- in explaining the thing as to
23 how you know that --

24 **MR. ELLIOTT:** Well I don't know that it would
25 create a problem. I think we go to great lengths

1 in an overestimating dose reconstruction. We
2 took this step to modify how we report those out
3 about two years ago or so where there's language
4 incorporated in the draft report that says here
5 are the following reasons why this is an over-
6 estimate. And those are enumerated and I think a
7 closeout interviewer could pick that piece up and
8 incorporate that into the conversation of what
9 was important about your dose reconstruction.
10 Well these are the things that we didn't have
11 full data on but we've done a reasonable over-
12 estimate in this way to show that your claim you
13 know --

14 **MR. HINNEFELD:** I think if this is about
15 personalizing the conversation I think that's
16 something that we should pursue and we can
17 provide -- like I said we can provide a procedure
18 change now that kind of gets into that with the
19 idea that that's almost like a continuing
20 improvement process. You know is -- you know
21 there may be additional things that occur to us
22 as we get into it that would be helpful along
23 with -- so.

24 **MR. ELLIOTT:** That's a whole different slant,
25 personalization versus giving up all of the

1 records that might be ancillary to a dose
2 reconstruction.

3 **MR. HINNEFELD:** I think one thing -- one thing
4 that -- one thing that's kind of relevant to at
5 least one of the cases here is there was
6 information provided in a closeout interview that
7 probably was judged not to -- wouldn't affect the
8 dose reconstruction because the way it was done.
9 But there was -- but the dose reconstruction
10 therefore went out without modification from the
11 draft despite the fact that the person had
12 provided specific incident related information to
13 the closeout interview and the -- and the -- the
14 final dose reconstruction said that the person
15 didn't give any specific -- any information about
16 specific incidents because during the CATI they
17 had not given specific incidents, said I was
18 involved in a lot of incidents. And so there was
19 -- there was a phrase in the dose reconstruction
20 the person wasn't involved in you know, they
21 didn't name any specific incidents and that this
22 is an overestimated approach to account for it.
23 But in the closeout interview the person
24 described in detail a specific incident.

25 **DR. MAURO:** Right.

1 **MR. HINNEFELD:** But there was -- but probably
2 there was -- I don't know if the correct judgment
3 that that incident won't affect the dose
4 reconstruction based on how it was done. But
5 there was no language change in the dose
6 reconstruction to --

7 **DR. MAURO:** To capture.

8 **MR. HINNEFELD:** To capture that information
9 throughout the closeout interview. So this
10 probably hits to that and it speaks to the
11 personalization. So I think certainly that's one
12 thing you know, we've -- we've had for awhile now
13 and it's been with -- it may be in the last year,
14 a couple years or a little more ago that we have
15 specifically said that any incident raised in a
16 CATI needs to be described in the dose
17 reconstruction even if it doesn't affect the
18 dose, even if it's about chemical exposure you
19 need to say in the dose reconstruction in the --
20 you know, in their interview they talked about
21 this exposure to beryllium on their job as well
22 but that doesn't add anything to the dose
23 reconstruction, dealing with radiation. So we've
24 made that change in the last maybe -- I forget
25 how long ago, it's probably a couple years ago,

1 make sure everything is addressed. But in this
2 case it was a closeout interview where the
3 information was raised. So it would -- it would
4 I think fall to us to make sure that we do that
5 same kind of thing, because we have a mechanism
6 for changing -- for doing a change to a draft
7 dose reconstruction before you issue the final
8 even when there's -- you know, because of
9 information we receive in closeout interview.
10 You know, we've got a whole rework loop so to
11 speak that is for that purpose, information
12 received in closeout or -- or attached to the
13 OCAS1 or something like that. So we have a whole
14 rework process associated with that.

15 **DR. MAURO:** So you know, if this is a -- maybe I
16 -- the closeout interview, is that held after the
17 person has received the report?

18 **MR. HINNEFELD:** Yes.

19 **MR. ELLIOTT:** Supposed to be. They're supposed
20 to have had an opportunity to review the report
21 and then an interview is scheduled. In some
22 instances we've --

23 **MR. HINNEFELD:** There has been a mistake
24 apparently when some -- at least one person I
25 know of got interviewed when they didn't have it

1 and I still don't understand how that happened.

2 **MR. ELLIOTT:** I don't understand that. It's a
3 rare event.

4 **DR. MAURO:** Okay so -- so then again -- so -- so
5 when that unusual circumstance occurs that during
6 the closeout interview the claimant makes
7 reference to some specific incident as to what
8 you have mentioned, I didn't quite follow how do
9 you resolve that is before -- in terms of
10 communicating that to the claimant that since he
11 already has the -- the dose reconstruction
12 completed report with the denial and your person
13 reads it but subsequent to that is this closeout
14 interview which does raise --

15 **DR. ZIEMER:** Well it doesn't have a denial
16 attached?

17 **MR. HINNEFELD:** The denial goes through DOL.

18 **DR. MAURO:** Oh, I'm sorry, I'm sorry, you're
19 right it's not included.

20 **DR. ZIEMER:** All he has is the dose
21 reconstruction draft.

22 **MR. HINNEFELD:** All he has is the drafted dose
23 reconstruction.

24 **DR. MAURO:** The dose reconstruction, you know,
25 I'm so used to looking at the reports that you

1 all --

2 **MR. HINNEFELD:** Yeah. He has -- all he has is
3 the drafted dose reconstruction report and so --
4 in that event -- in this -- in this instance what
5 I feel like should have happened would have been
6 that well, I don't know how much evaluation was
7 made of the information provided by -- by the
8 person about the incident. Presumably a dose
9 reconstructor would have -- should have been
10 asked what about this incident, they specifically
11 mentioned this incident would this affect how we
12 would have done the dose reconstruction? Dose
13 reconstructor could very well concluded now we
14 have an overestimate. We expected this person to
15 be involved in some incidents; we overestimated
16 based on that. Feel like we've bracketed this
17 kind of incident 'cause it was a one day
18 incident.

19 **DR. MAURO:** Okay, so -- so that -- so this
20 information for example in the way in which it
21 could have gone down is when that incident was
22 brought up in the closeout interview, that would
23 have looped back in and the final -- and
24 eventually there was the report that came out
25 later that had here's the dose reconstruction,

1 here's the result and here's the reason for
2 denial.

3 **MR. HINNEFELD:** Well --

4 **MR. ELLIOTT:** Even if the final --

5 **MR. HINNEFELD:** The final comes from us.

6 **DR. MAURO:** We can say no, but there --

7 **MR. HINNEFELD:** The final answer comes from us so
8 at that time when additional information is in
9 closeout interview that in this case affects
10 certainly the words in the dose reconstruction.

11 **DR. MAURO:** Okay.

12 **MR. HINNEFELD:** What should have happened at that
13 point was it should have been reworked and -- and
14 generally then resubmitted as a new draft.

15 **DR. MAURO:** Oh, okay.

16 **MR. HINNEFELD:** To the -- to the claimant.

17 **DR. MAURO:** Put in a date.

18 **MR. HINNEFELD:** There have been occasions where
19 the claimant would say I really think my dose
20 reconstructor should say such and -- my dose
21 reconstruction should say this and they have
22 agreed that as long as their final dose
23 reconstruction said that that they had no
24 additional information to hide -- to -- to
25 provide, they weren't -- they didn't need to talk

1 to us again; we could just go ahead and send them
2 the final dose reconstruction as long as we said
3 that. And we've done some -- there are some
4 cases where we just looped it to the file, change
5 the file and sent a backup. In other instances
6 if they don't say that's okay, if they really --
7 they may want to talk to us again after they see
8 what we change then they're issued a new draft
9 dose reconstruction and then they get another
10 interview and at that point they either say okay,
11 this is what I want it to say or not, they sign
12 the OCAS1 and then it goes -- and then we print
13 the final and the final goes to DOL and to the
14 claimant.

15 **DR. MAURO:** Along these lines in this process
16 earlier you had mentioned the possibility of some
17 language as you were going to look into that
18 communicates to the claimant that I forget the
19 exact words you used that you know, that the
20 outcome of this dose reconstruction that you
21 performed would lead one to -- that may not be
22 compensated. I understand -- I --

23 **MR. HINNEFELD:** Yeah.

24 **DR. MAURO:** Now, what happens -- what -- able to
25 show causation. Now if those words do find their

1 way I mean and in a way this is the ultimate link
2 to communication because let's -- let's face it
3 in the end this person wants to know you know,
4 where am I in the process? Does it look like I'm
5 going to be compensated or not? And I -- and I
6 have to say I was presently surprised to hear
7 that there were some words that you possibly
8 could put in here --

9 **MR. HINNEFELD:** No, I think, like I said I
10 haven't vetted those with anybody.

11 **MR. ELLIOTT:** We don't know for sure.

12 **DR. MAURO:** You don't know for sure but let's
13 just -- let's play that out a little bit. So now
14 you're in a very important place in the closeout
15 process because now the person has in front of
16 them the document that has those words and let's
17 say those words say something to the effect that
18 it leads them to understand that they're likely
19 not going to be compensated, if you can do that.
20 But that is -- it's an important place to be
21 because then it puts you in a position to open up
22 a meaningful dialogue with this person on why we
23 believe that we feel this was a good job and why
24 we were claiming favorable or how we did what we
25 did, how we believe we have addressed all of the

1 issues that you had mentioned and others.
2 Because see, in a funny sort of way without that
3 you don't have context and the person is not --
4 you know but now -- now really you're talking to
5 them straight. You say listen, it looks like
6 we're not going where you want to be and this is
7 why we believe we're there and why we think we're
8 right. Now, in effect what you're really asking
9 them about is there anything about what I just
10 told you that you think that maybe we got it
11 wrong or there's more -- not more in terms of --
12 is there more information? Is there some
13 information you gave us before that perhaps we
14 didn't capture, other information that you have
15 for us because right now it looks like this is
16 where we're headed. You know, I know that it --
17 it almost makes it a lot easier to talk to the
18 person if you could -- if you could sort of be
19 straight with them about where we are, you know
20 what I mean?

21 **MR. ELLIOTT:** Yeah, we wanted that from the
22 start, but we weren't allowed to do that. See if
23 we can find some middle ground here that will be
24 palatable to all.

25 **MS. MUNN:** So there's no specific action on this

1 particular item, we can consider this item closed
2 and any activity that's going to occur as a
3 result falls under the general concept of
4 personalizing the information?

5 **DR. MAURO:** This is one of the items that sort of
6 loops back that's going to be covered by an
7 earlier one?

8 **MR. HINNEFELD:** I think it's probably going to be
9 addressed by a different finding.

10 **DR. MAURO:** Right, an earlier one. What do we
11 call those, closed? Kathy what do we call them
12 when they --

13 **MR. HINNEFELD:** I think we just say addressed in
14 finding.

15 **DR. MAURO:** Oh, addressed in finding, an earlier
16 finding.

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

18 **DR. MAURO:** Okay.

19 **MR. HINNEFELD:** I think it might fall in with
20 number two.

21 **MS. MUNN:** I would say so.

22 **MR. ELLIOTT:** Now this is good, you know,
23 understanding you intended this to be for
24 personalization --

25 **DR. MAURO:** Yes.

1 **MR. ELLIOTT:** This is totally different than the
2 way we read it is, we give up an analysis what we
3 call an analysis record to DOL that has
4 everything that's relevant to a given claim and
5 that usually consumes a whole CD.

6 **DR. MAURO:** Oh I know, we've seen them.

7 **MR. ELLIOTT:** And so can you imagine trying to
8 make sure the claimant has all of that
9 information and then having to redact perhaps
10 many pages in that.

11 **MS. MUNN:** Impossible.

12 **MR. ELLIOTT:** And at the start of the program I
13 was an advocate of let's give the person their
14 own analysis record, give them a CD, we're going
15 to burn a CD for DOL, we've got to burn one for
16 DOE, let's give one to the claimant, I want them
17 to have one; no. I was just told we -- it's just
18 not feasible, not practical and not pragmatic,
19 so.

20 **MS. MUNN:** Finding number five, I do believe that
21 we have covered that one pretty thoroughly.
22 We've already talked about the fact that we're
23 going to call health physics reviewers something
24 else.

25 **DR. MAURO:** Lesson number one.

1 **MR. HINNEFELD:** Yeah.

2 **MS. MUNN:** It goes with number one.

3 **MR. HINNEFELD:** Yeah.

4 **MS. MUNN:** Finding number six. No requirement to
5 connect the closeout interview with the CATI.

6 **MR. HINNEFELD:** Is this in terms of making sure
7 that during the closeout interview they describe
8 that this is what you told us in the CATI?

9 **DR. MAURO:** This goes to exactly the example that
10 Paul used before.

11 **MR. HINNEFELD:** And this is how we addressed it.

12 **DR. MAURO:** Right.

13 **MR. HINNEFELD:** Okay, and that could be
14 instructions to be provided in the procedure to
15 the interviewer; we could do that at that point.
16 Okay.

17 **MS. MUNN:** And since we've already talked about -
18 - is this also --

19 **DR. MAURO:** Which one was that?

20 **MS. MUNN:** -- included in the --

21 **MR. HINNEFELD:** That's ninety-two dash six on the
22 matrix.

23 **MS. MUNN:** Ninety-two dash six and then ninety-
24 two dash three we had said we're going to suggest
25 changes in the procedure.

1 **DR. MAURO:** It's probably a good idea when --
2 when -- when three is being looked at that you
3 know, this is almost like a refinement --

4 **MR. HINNEFELD:** Yeah.

5 **DR. MAURO:** -- on three, and it's probably a good
6 idea to make sure that when the person is working
7 off number three, that they take into
8 consideration six.

9 **MR. HINNEFELD:** Okay.

10 **DR. MAURO:** You know otherwise you could see a
11 person doing three but not really addressing six.
12 But this -- you understand.

13 **MR. HINNEFELD:** Yeah.

14 **MR. MARSCHKE:** So what's six?

15 **MS. MUNN:** We --

16 **DR. MAURO:** It goes back to three -- it goes back
17 to --

18 **MR. MARSCHKE:** Is it addressed in finding three
19 or is it closed or is it --

20 **MS. MUNN:** No, it's going to be the same action
21 as number three.

22 **DR. MAURO:** Yeah, it's being addressed -- I don't
23 know if we use the word trans -- Kathy, when do
24 we use when you transfer -- not transfer but when
25 we --

1 **MS. BEHLING:** Addressing finding 9203. Not
2 transfer, transfer is going out of the task three
3 system.

4 **DR. MAURO:** That -- that leaves -- that leaves
5 this; okay.

6 **MS. BEHLING:** Yes. So this is just going to say
7 address in finding 0092-03.

8 **DR. MAURO:** Kathy if we address an issue in a
9 different procedure still within the task three
10 realm but in a different procedure is that a
11 transfer or is that an addressed?

12 **MS. BEHLING:** I would still consider that an
13 address.

14 **DR. MAURO:** Okay.

15 **MS. MUNN:** Procedure six, oh, we have two
16 procedure 92-6.

17 **MR. HINNEFELD:** Oh yeah.

18 **MS. MUNN:** We have a numbering issue, Kathy.
19 That should be seven.

20 **MS. BEHLING:** Okay, we'll make that change.

21 **MR. MARSCHKE:** Wait a minute; we've got a seven
22 on the next one is a seven.

23 **MS. MUNN:** And that should be eight.

24 **MR. MARSCHKE:** The next one will be eight.

25 **DR. MAURO:** We've got a ripple effect.

1 **MS. MUNN:** We have a total of eight. Just a
2 numerical -- All right, technical questions are
3 not answered in real time. Is this not also the
4 same discussion that we had relative to the
5 availability of personnel we discussed in item
6 two? Finding two or finding three?

7 **MR. MARSCHKE:** I think it was finding two. If
8 that -- we talked about getting back to the
9 claimant with answers to the questions.

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

11 **DR. MAURO:** Okay, addressed in item two.

12 **MR. MARSCHKE:** Well it's not really addressed.

13 **DR. MAURO:** No, not addressed, to be addressed.

14 **MR. MARSCHKE:** Would it be the technical answer -
15 - questions not answered in real time, we're not
16 going to answer the questions in real time, we're
17 going to basically get back to them. Basically
18 if -- if -- if we've decided that we're not going
19 to have an HP present in the closeout interview
20 to answer questions in real time, we're going to
21 get back to them, we're going to take the
22 questions and get back to them later. So, it's
23 not really addressed, it's --

24 **MS. MUNN:** The same issues in a dif -- presented
25 in a different way.

1 **DR. MAURO:** Right, right.

2 **MS. MUNN:** So, but the resolution is the same.

3 **MR. MARSCHKE:** Okay.

4 **MS. MUNN:** Right?

5 **MS. BEHLING:** Is that finding 02 or 03? Because
6 03 we discussed about stopping the clock on
7 signing the OCAS1 forms until their questions can
8 be answered, or am I confusing that with --

9 **MS. MUNN:** No, that's what we said.

10 **MR. MARSCHKE:** I have that under -- you know, I
11 have that under 03. Under 02 I had get back to
12 the claimant with answers to questions and under
13 03 I had you know, when a claimant asks a
14 question remove the signing of the OCAS1 form
15 from the discussion and get back to the claimant
16 and stop the sixty day clock. So, it's kind of
17 under --

18 **DR. MAURO:** It's more two than three I would say.

19 **MS. MUNN:** Can we say we're covering a broader
20 set of issues in number two I think than in
21 three.

22 **MS. BEHLING:** Okay.

23 **MS. MUNN:** And it will be addressed in any case.
24 And the --

25 **MR. HINNEFELD:** Last one.

1 **MS. MUNN:** That was number seven, the final issue
2 is number eight. No specific provision for
3 responding to complaints about difficulty in
4 understanding the dose reconstruction. Stu?

5 **MR. HINNEFELD:** Well, there's -- there's that --
6 a difficulty in understanding which is what we
7 talked about having a health physicist get back
8 to the person if need be to you know, answer
9 questions or you know, make sure we answer
10 questions and then it leaves room for undue and
11 substantial subjectivity in addressing technical
12 information.

13 **DR. MAURO:** I think it's a two.

14 **MR. HINNEFELD:** Does this relate back to things
15 we've already said we're going to look -- we're
16 going to specify and what are -- what conditions
17 does this have to be referred to a dose
18 reconstructor for response and -- and then it
19 would fit in with what we've already kind of
20 committed to which was to provide more
21 specificity in the procedure?

22 **MS. MUNN:** Well the overall personalization we
23 were going to do in item two.

24 **DR. MAURO:** Yeah, see, two covers just about all
25 the things we're talking about.

1 **MR. HINNEFELD:** Yeah.

2 **MS. MUNN:** Yeah.

3 **MR. HINNEFELD:** Okay.

4 **MS. MUNN:** Does anyone have any other burning
5 issue they feel needs to be covered under PROC92?
6 I'm not certain exactly how many action items we
7 have here but I think about four, most of them
8 having been identified up front. I'll try to put
9 them together afterward so that we know what
10 we're doing with them.

11 **DR. MAURO:** By the way this is a very important
12 part of our new process and I know we've been
13 doing it but these action items are actually
14 going to go into the new form on direction given
15 there's an actual box now and a form that says
16 direction given by the working group and actually
17 these action items have to be -- are going to be
18 our scorecard so to speak.

19 **NIOSH - INCORPORATION OF PROC-0090 INTO MATRIX**

20 **MS. MUNN:** Yeah. Okay. That brings us to the
21 incorporation of PROC0090 in new form into the
22 matrix. I will have to admit that when I put my
23 materials together last night the PROC90 issues
24 were not among the pieces of paper that I picked
25 up. So I am not able to direct the discussion as

1 to where we were with ninety and why we were
2 concerned with a new form into the matrix.

3 **DR. MAURO:** I have to ask, is PROC90 one of the
4 QA procedures?

5 **MR. HINNEFELD:** No, that's the CATI interview
6 process.

7 **MS. MUNN:** That's CATI.

8 **DR. MAURO:** Oh, this is the CATI.

9 **MS. MUNN:** CATI.

10 **MR. HINNEFELD:** This goes back to step one --
11 step one of the interview -- of the procedure
12 review. There were actually three different
13 procedures that described the CATI process that
14 had since been consolidated into PROC90.

15 **DR. MAURO:** Okay.

16 **MR. HINNEFELD:** Based upon my read of PROC90, the
17 consolidation is the issues remain. You know,
18 the revision did not address the findings from
19 earlier procedures. So, there has been limited
20 discussion of the findings from those two and
21 then the issue is presented here as putting it in
22 the new format which is going to be largely an
23 administrative task once you get the database you
24 put it in there. I did send and Wanda I don't
25 think I even put those on my disk, they must

1 still be on my hard computer.

2 **MS. MUNN:** Nope, they were not on the --

3 **MR. HINNEFELD:** I sent two -- no, it was
4 separate, I sent a separate message and there
5 were two files on there that were essentially
6 Word files but in the new format, the details
7 format from the database and just showing a
8 demonstration and there are some -- there are
9 twenty-nine findings that's now related to PROC90
10 from the -- from the first set review.

11 **MR. PRESLEY:** Is that the one you sent out
12 December 7th?

13 **MR. HINNEFELD:** That was Friday, probably sent it
14 Friday, right. And there are -- and so I've only
15 -- I sent a message with essentially two files
16 attached which are Word files which are just the
17 details page and how it would be converted of
18 what I proposed and I don't know if this will fit
19 so I hope I copied Kathy on it. I don't know
20 what I proposed would fit in the database or not
21 -- the database field or not because I proposed
22 in the -- in the -- in the finding name not only
23 listing PROC90 but listing the finding as it was
24 originally numbered in that first product because
25 it was like PROC4-1, which would be the first

1 finding and then that would convert to 90-1 and
2 then when she gets through with PROC4-1's, maybe
3 four findings on PROC4 then you go to PROC5
4 findings and so the numbering will
5 (unintelligible) you're ready for PROC number 5
6 when you get to that finding then that one we'd
7 convert to PROC5 and so there'd be some way to
8 retain the origin of those findings. It may not
9 fit with the database's design, so I don't know.
10 It may be -- I don't -- if it'd be possible to
11 track them from their exist -- their -- you know,
12 original number, like we could PROC them, you
13 know track them as PROC4, PROC5 and PROC17
14 findings, track them in that manner database we
15 could -- and I don't know, you know, I hate to
16 add fields to that database, it seems to be
17 pretty well defined. But I mean like have a
18 predecessor finding; I know Kathy wants me to
19 shut up.

20 **MS. BEHLING:** No. No, no, no, you're doing fine.
21 Stu, you did send me that email and I think that
22 what you -- I like what you've done and I think
23 that that will fit into our -- the matrix as it
24 currently exists and the way I was thinking we
25 could do this is to go back to we still have

1 captured on the database under the first set, the
2 PROC4, PROC -- I guess there were three as you
3 said, there were PROC4, PROC5 and PROC17. And so
4 I can go back into the details discussion on
5 those initial findings and indicate that these
6 will be now addressed under the PROC90 and I
7 think what you've done under the procedure number
8 and the finding number will work just fine, that
9 you put in parentheses that these were originally
10 under PROC04 and 5 and 17. So, I think this
11 should work.

12 **DR. MAURO:** So, would that be an addressed in for
13 the others, the PROC -- the PROC4 and 5 that
14 where these issues were originally raised now are
15 we saying that those issues are being addressed
16 under PROC90 and therefore are transferred -- not
17 transferred, are addressed in? In other words
18 I'm thinking about the form of -- is that how
19 we're going to get this --

20 **MS. BEHLING:** Yes.

21 **DR. MAURO:** -- closure. So it will be addressed
22 in and then when you find -- when you do get the
23 PROC90 it will all be there and perhaps with a
24 reference to a white paper?

25 **MS. BEHLING:** Yes.

1 **DR. MAURO:** And the -- in -- in -- in the write-
2 up since you can't fit it. You know, maybe some
3 brief description -- conversation we're having
4 right now --

5 **MR. HINNEFELD:** Yeah.

6 **DR. MAURO:** -- with the end that -- under the
7 section workgroup meeting -

8 **MR. HINNEFELD:** Right.

9 **DR. MAURO:** -- this discussion will somehow be
10 captured.

11 **MR. HINNEFELD:** Yeah.

12 **DR. MAURO:** And -- and it will be making -- and
13 also there would be a reference to a white paper
14 that you submitted on -- is that --

15 **MR. HINNEFELD:** No, I didn't submit a white
16 paper. All I submitted was examples in how it
17 would look.

18 **DR. MAURO:** Oh, okay. Okay.

19 **MR. HINNEFELD:** I did not submit a white paper on
20 this. What -- What needs to happen on these is
21 well A we all have to refresh our memories and
22 then have a discussion about -- because the
23 finding was made and we made some initial
24 responses and some of those initial responses
25 pointed out that well we have this new

1 acknowledgment packet or that -- we -- at the
2 time that we were developing which is -- but is
3 now filed now and so some of those findings we
4 think were addressed sufficiently or we hope to
5 address sufficiently by the standing
6 acknowledgment packet. And there have been a few
7 other things that have been modified that are
8 captured in those responses. So we kind of have
9 to get a feeling for how far have these responses
10 gone, you know, have we -- have we actually
11 solved any of them and for those that are not
12 solved then we need to talk about additional
13 approaches, you know, other things that might
14 have to happen because I don't know that I would
15 say that everything had a nice clean resolution
16 likely; I don't think they all did. So, that's
17 what would have to happen is we'd have to pull
18 those back out, refresh our memories and -- and
19 determine -- and -- and our part as well on our
20 side, what can be done for instance, you know the
21 people who actually do the work normally know
22 best the feasibility of a particular change or
23 that particular change or if maybe there's an
24 alternative that can satisfy the intent. And so
25 get the people who do the work engaged in what is

1 it that can be done for these. So that has to
2 happen and then -- then we can discuss I think
3 the future work.

4 **DR. MAURO:** So -- so the way this would work then
5 is in our matrix, what you just discussed would
6 be in the discussion and I guess there's an
7 action item that is you and Kathy are going to
8 work on I guess you're going to work on some kind
9 of -- I assume some kind of documentation that
10 tells the story oh, you're going to (inaudible)
11 the open items and these others and how -- how
12 PROC90 is or is not -- I mean -- let's try to go
13 ahead and get a hook so that we don't lose track
14 of these items.

15 **MR. HINNEFELD:** Probably what -- what we could do
16 is we could have a NIOSH you know, action, you
17 know, we had -- we'll have -- we come -- we can --
18 - someone, I don't know who someone is, will
19 capture this conversation at this meeting in the
20 Board block and then after that there's a NIOSH
21 follow-up block or something like that. So we
22 can go back and we can provide the follow-up
23 information and put something in each of those
24 blocks, even if it's to say that we think our
25 original response took care of this. We could

1 provide that and then that kind of kicks us on
2 down moving that along. I guess we could do
3 that.

4 **DR. MAURO:** Okay.

5 **MS. MUNN:** You just said the magic words, don't
6 know who does that. Can we agree on who does
7 that?

8 **MR. HINNEFELD:** Well I can -- I can write that
9 summary that what I think needs to happen on
10 those findings from now on and -- and then put
11 that in each -- each box -- a box for each of
12 those findings and then I could, at some point, I
13 won't -- this may not -- this probably won't be
14 ready for January. But at some point we could
15 provide an updated NIOSH response even if it's to
16 say that we think our initial response
17 (unintelligible) so and then we'd be prepared to
18 go from there and gives you then the opportunity
19 to see what our position is now and look at --
20 and the initial response would be on there you
21 know, we'll cut and paste that on there so it'll
22 be up above.

23 **DR. MAURO:** Given the complexity of this and the
24 fact that in order to address each of the
25 subparts of these things we're talking about and

1 the process that will take place between you and
2 -- well, between NIOSH and SC&A in terms of the
3 next meeting, apparently there will be some
4 document prepared of some form. It sounds to me
5 it's not something that we can easily put into
6 this form.

7 **MR. HINNEFELD:** Well right now I think that -- I
8 don't know of anything that won't, these are
9 findings.

10 **DR. MAURO:** Okay, well if it can, great.

11 **MR. HINNEFELD:** These are findings.

12 **DR. MAURO:** If it can, great.

13 **MR. HINNEFELD:** These are findings about is at
14 the time three procedures and so unless I run
15 into something and unless -- well, I don't
16 remember very well, but my recollection is that
17 they -- they are not so special as to require
18 their own white papers. I think we could -- if
19 we could address them as much as we've addressed
20 other procedures and with, you know, initial
21 response and then subsequent discussion.

22 **DR. MAURO:** So, from a format point of view there
23 would be a PROC009 and it would have a 01 through
24 0 --

25 **MR. HINNEFELD:** 29.

1 **DR. MAURO:** 29. Each one will have its own page
2 and each one would be separately tracked.

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

4 **DR. MAURO:** Okay.

5 **MR. HINNEFELD:** I mean -- don't you think?

6 **DR. MAURO:** Unless you feel that some of the 29
7 collapse into something else.

8 **MR. HINNEFELD:** Well you know for cleanliness of
9 tracking let's put them all on there.

10 **DR. MAURO:** Okay.

11 **MR. HINNEFELD:** You know --

12 **MR. MARSCHKE:** Don't do that yet.

13 **DR. MAURO:** Don't do that yet? Okay. Play it
14 out.

15 **MR. HINNEFELD:** Yeah, let's just play it out, get
16 it in there and then it'll be something for us to
17 discuss as a you know, we've got to finish up the
18 first set, I mean there were a series of actions
19 that we need to do from the first set that I'm
20 not sure are all done yet, a number have been
21 done. But then these -- these actual findings,
22 these are down toward the end of the table, some
23 that I think they were the last few procedures on
24 the matrix. We need to go ahead and work
25 ultimately through resolution on those so --

1 **DR. MAURO:** So -- so we've got to build this very
2 similar to what we build let's say PROC92.

3 **MR. HINNEFELD:** Yeah.

4 **DR. MAURO:** It has its own stand alone series of
5 in this case, converts into a 29 findings.

6 **MR. HINNEFELD:** Yeah, now presumably I don't know
7 -- yeah, I don't know if Kathy's built -- I would
8 assume that's in there if she's -- she's
9 populated all the data tables that those findings
10 would be in there. Kathy, is that right? The
11 PROC4, 5 and 17 findings, are they in there?

12 **MS. BEHLING:** Yes, they are.

13 **MR. HINNEFELD:** Okay.

14 **MS. BEHLING:** The findings from the first set of
15 -- the first set of procedures that were reviewed
16 are already in there, yeah.

17 **DR. MAURO:** Okay. I printed something out that
18 wasn't.

19 **MR. HINNFELD:** So then that -- that page in the
20 Access version of that page then will open up,
21 where we have a folder in it and we just fill out
22 what we can fill out.

23 **DR. MAURO:** Okay. Great.

24 **MS. BEHLING:** And Wanda I might just add that I
25 had been under the impression that during this

1 meeting both Steve and I, I think have been
2 taking notes and we will take on the
3 responsibility of filling in the next blue
4 section of our details section where we say this
5 is what transpired during the 12/11/07 meeting
6 and we will fill in the discussion issues and the
7 workgroup directives because we -- like I said,
8 have been trying to take very detailed notes and
9 as this meeting has been progressing and then
10 we'll send that off to NIOSH and then they can
11 also fill in you know, any follow-up actions and
12 we'll have our follow-up actions to fill in. But
13 I was under the impression that SC&A would
14 continue to update and complete this matrix.

15 **MS. MUNN:** Yes, I was under that same assumption
16 so I have not been taking notes in that regard.
17 I'll be glad to work with you Kathy, just give me
18 -- you send to me the information that you have
19 recorded for the blue box and each of the cases
20 that we've covered here. I'll certainly make any
21 comments that seem appropriate here and pass them
22 back to you for incorporation in the next copy of
23 what the working group sees.

24 **MS. BEHLING:** Very good, that -- that will work.

25 **MS. MUNN:** Great. Thank you very much.

1 **MS. BEHLING:** So I think we're set for PROC90
2 then. That looks great actually now that I
3 finally see it.

4 **SC&A AND NIOSH - OTIB-0023 TRACKING IN MATRIX**

5 Next item, resolution of how to incorporate
6 tracking of crucial OTIB0023 aspects in the
7 matrix. This is a similar kind of problem as I
8 recur -- as I -- as I recall. I believe we were
9 expecting the agency and our contractor to talk
10 about this offline and have some proposal for us
11 today.

12 **MR. HINNEFELD:** I'm not sure we did that.

13 **MS. BEHLING:** Well, actually this was an issue
14 that Stu, you and Hans and I discussed before the
15 previous meeting.

16 **MR. HINNEFELD:** Right, right, we did that.

17 **MS. BEHLING:** Right, we -- we talked about this
18 back in November before I believe the November
19 7th meeting and I thought we had come to
20 agreement and resolution on all of the findings
21 and most of those resolutions was -- were that
22 you were going to incorporate some changes into a
23 revision of this procedure and I believe our
24 discussion during the last meeting was the fact
25 that maybe you were going to provide to the

1 workgroup some wording associated with what kind
2 of changes you were thinking about incorporating
3 into the revisions.

4 **MR. HINNEFELD:** Okay, I can do that. We've
5 already -- you know, there is a modification to
6 IG1 associated with this too. That modification
7 has been made already. I don't think OTIB23 has
8 been revised though.

9 **MS. BEHLING:** I'm sure it hasn't. Like I said we
10 discussed this a month ago. But this gets
11 captured into with the matrix just like all of
12 the other items here. This is not a matrix --
13 anything difficult with the matrix. I -- I
14 believe if I'm recalling correctly that this was
15 just going to be an issue that NIOSH was going to
16 come back with some wording as to how they were
17 going to revise the OTIB23 procedure.

18 **MS. MUNN:** And you have -- Kathy and her team has
19 incorporated a great deal of information on that
20 OTIB already. Just we don't want to get bogged
21 down and leave it.

22 **MS. BEHLING:** Right.

23 **MS. MUNN:** So the action is for NIOSH to provide
24 wording.

25 **MR. HINNEFELD:** Yeah.

1 **MS. MUNN:** For OG what?

2 **MR. HINNEFELD:** OTIB -- OTIB23.

3 **MS. MUNN:** Well yeah, OTIB23 but you were going
4 to incorporate you said an IG procedure.

5 **MR. HINNEFELD:** Oh, and IG1.

6 **MS. MUNN:** IG1 goes into it?

7 **MR. HINNEFELD:** There was like a one page -- page
8 change to IG1.

9 **MR. ELLIOTT:** This has already been done.

10 **MR. HINNEFELD:** That's been done.

11 **MS. MUNN:** So it's just getting it into the
12 matrix?

13 **MR. HINNEFELD:** Yeah.

14 **DR. MAURO:** Stu, I'm looking right now at the
15 material you sent --

16 **MR. HINNEFELD:** Okay.

17 **DR. MAURO:** OTIB23 items 1 through 8 of these.

18 **MR. HINNEFELD:** Right.

19 **DR. MAURO:** On your package, the old format and
20 matrix.

21 **MR. HINNEFELD:** Right.

22 **DR. MAURO:** It starts on page ten for anyone who
23 has that. Now I see that in that all of the
24 issues are laid out the way we used to do it and
25 -- and I see there's a red -- there are some red

1 material.

2 **MR. HINNEFELD:** Yeah, yeah.

3 **DR. MAURO:** So, now that red material that's in
4 here I'm not quite sure what -- whether the
5 November 7th red material that's in your matrix
6 made it into the new format or not. Steve --

7 **MS. BEHLING:** No -- no it didn't.

8 **DR. MAURO:** Oh, okay.

9 **MS. BEHLING:** I can -- I can incorporate that.

10 **DR. MAURO:** Okay. Now but then over and above
11 that the next step in the process, I just want to
12 make sure I got it right. So in effect we'll
13 load up the matrix new format with your new
14 material that's in your old matrix from November
15 7th and I didn't follow from there what were the
16 next steps in terms of further loading up the
17 matrix? For each one of --

18 **MR. HINNEFELD:** Well, we've talked about possible
19 wording changes but I -- some of them are in
20 that, these November 7th notes.

21 **DR. MAURO:** Okay. So I mean that's where I'm
22 going. Maybe you've captured a lot of it
23 already.

24 **MS. MUNN:** Would the action be for the two of you
25 to take a look at what we have and ascertain

1 whether additional words need to go into the
2 matrix or whether you already have them?

3 **MR. HINNEFELD:** Yeah, I guess actually there is
4 sort of a promise as you know, -- some of them
5 are pretty -- fairly specific in terms of what
6 we're going to do. Others are sort of a -- an
7 ill defined promise that we're going to do
8 something so it looks like we could -- we just
9 need to do a markup as we're going to change it,
10 yeah.

11 **DR. MAURO:** The goal I think in the end is to
12 assign to each of those eight findings open,
13 closed, in abeyance --

14 **MR. HINNEFELD:** Yeah.

15 **DR. MAURO:** And words that go with that.

16 **MR. HINNEFELD:** Yeah.

17 **DR. MAURO:** Right now we don't have that.

18 **MR. HINNEFELD:** Right.

19 **DR. MAURO:** We do?

20 **MR. HINNEFELD:** They're all in abeyance.

21 **DR. MAURO:** They're all in abeyance, okay.

22 **MS. MUNN:** All right.

23 **MR. HINNEFELD:** Yeah.

24 **MR. ELLIOTT:** Work to be done.

25 **MS. MUNN:** Yeah, work to be done. All right.

HOUSEKEEPING AND ACTION ITEMS

1
2 Does anyone have anything else other than our --
3 our housekeeping issues with when, where and how
4 we meet next? Any other specific matrix items we
5 need to address? Any other procedure issues? If
6 not, it's calendar time.

7 **MS. BEHLING:** Okay, Wanda?

8 **MS. MUNN:** Yes?

9 **MS. BEHLING:** Maybe if you would allow me to just
10 ensure that I have all of the action items that
11 we talked about with regard to changes that we're
12 going to introduce into the matrix. If I could
13 go through those I would appreciate it and then
14 you can tell me if I've missed anything.

15 **MS. MUNN:** We will certainly do that if you would
16 like to do it that direction or it was my intent
17 to read through the action items that I have.

18 **MS. BEHLING:** Okay, that's fine. I also wanted
19 to inform you that I did contact our Access
20 person during one of the breaks and I have some
21 answers with regard to whether we can or cannot
22 do some of the things that -- in fact we can do
23 everything that I have written down here, he's
24 going to be able to make those changes.

25 **MS. MUNN:** Good. All right. Do you want to go

1 through that before we do the calendar issues?

2 **MS. BEHLING:** No, no, go ahead; I didn't know you
3 were going to go back to the action items. Go
4 ahead.

5 **MS. MUNN:** Yeah, I try to read my notes,
6 sometimes that's impossible but we'll see where
7 we go with it. We're currently scheduled to meet
8 prior to the full Board meeting in --

9 **DR. BRANCHE:** The last I heard Wanda was that you
10 and Robert had to work out between you how you
11 all were going to organize your meetings on the
12 seventh.

13 **MS. MUNN:** I believe as far as we know right now
14 there may not be a problem with -- with that.

15 **MR. PRESLEY:** Are you planning on having yours
16 start in the morning or at twelve?

17 **MS. MUNN:** I had intended to have mine start in
18 the morning but if you're not going to -- you
19 know, if it turns out we don't have to have an
20 NTS meeting or can we reverse it now and say we
21 will have -- start our meeting in the afternoon
22 so that, that would leave the morning free if it
23 turns out we do have to have an NTS then we could
24 do it in the morning.

25 **MR. PRESLEY:** That's fine with me.

1 **MR. ELLIOTT:** The earliest that NIOSH staff from
2 OCAS could get there on the Monday is I think
3 around noon, right Stu?

4 **MR. HINNEFELD:** That'd be my guess, get there at
5 noon, maybe noon.

6 **MR. ELLIOTT:** Since we could take effect of the
7 cheaper air fare rate but noon is the earliest I
8 think we can -- we can make our presence.

9 **DR. BRANCHE:** For either meeting.

10 **MR. ELLIOTT:** For either meeting, any meeting you
11 pick.

12 **DR. BRANCHE:** So it would mean that if there's a
13 need for a Nevada Test Site meeting it might have
14 to follow this one.

15 **MR. ELLIOTT:** That's noon -- that's noon out
16 there.

17 **MS. MUNN:** With noon Monday where we are.

18 **DR. MAURO:** I think our folks have made their
19 plans to arrive sometime Monday morning, like ten
20 o'clock, so --

21 **DR. BRANCHE:** Okay so I'm just saying that
22 Wanda's making her plans and just the idea of a
23 Nevada Test Site meeting on the morning of the
24 seventh is impractical.

25 **MR. HINNEFELD:** Right.

1 **DR. BRANCHE:** So if there's going to be a Nevada
2 Test Site meeting it's going to have to follow
3 this one.

4 **MR. PRESLEY:** Yeah.

5 **DR. BRANCHE:** Just bear that in mind. Ms. Munn,
6 back to you.

7 **MS. MUNN:** I'm thinking and that's a rare
8 occasion so bear with me.

9 **DR. ZIEMER:** So we have subcommittee Tuesday --

10 **MS. MUNN:** Tuesday morning.

11 **DR. ZIEMER:** -- morning at ten?

12 **MS. MUNN:** I believe.

13 **DR. BRANCHE:** No, no, Linde is at eight.

14 **DR. ZIEMER:** Linde's at eight.

15 **DR. BRANCHE:** Linde's at --

16 **DR. ZIEMER:** No, that's the workgroup, the
17 subcommittee would be Mark.

18 **DR. BRANCHE:** I think we tried to use ten or ten
19 thirty; I can't recall. Zaida, are you on the
20 line?

21 **DR. ZIEMER:** So Lind -- Linde and dose
22 reconstruction are Tuesday morning, the full
23 Board starts at noon.

24 **MS. MUNN:** At noon.

25 **DR. BRANCHE:** No, the full Board starts at one.

1 **MS. MUNN:** One, after lunch.

2 **DR. BRANCHE:** I think -- I think what we have is
3 that whatever happens with the subcommittee I
4 think depending upon how briskly they move I
5 think we've scheduled to end at twelve thirty; I
6 think it goes from ten to twelve thirty or ten
7 thirty -- ten fifteen to twelve thirty or
8 something like that. It's a tight little frame.

9 **MS. MUNN:** Uh-huh, yeah. I think Mark doesn't
10 expect to cover a lot of material.

11 **MR. PRESLEY:** Arjun?

12 **DR. MAKHIJANI:** Yes.

13 **MR. PRESLEY:** How much have we got to discuss on
14 NTS on the nineteenth?

15 **DR. MAKHIJANI:** Oh Mr. Presley, we've given you
16 the extent of beta dose review, so I believe and
17 we've discussed it some I believe that that was
18 for re-suspension?

19 **DR. MAURO:** Yeah, well I guess I have a more of a
20 question. To what degree have we married the
21 site profile reviews and the SEC petition because
22 we have been activated to start work on NTS SEC
23 petition, those are -- we're still keeping those
24 separate, so the --

25 **MR. PRESLEY:** Nobody has -- nobody has married

1 the two together whatsoever.

2 **DR. MAURO:** Okay, so --

3 **MR. PRESLEY:** In fact there's not a working group
4 on the -- on the SEC that I know of.

5 **DR. MAKHIJANI:** Okay, fine.

6 **DR. MAURO:** So this will be solely a site profile
7 --

8 **MR. PRESLEY:** Solely a site profile -- I'd love
9 to wind it up.

10 **DR. MAKHIJANI:** I think -- I think the overall is
11 wrapped up Mr. Presley in a sense that I think
12 NIOSH and us have agreed on which items they're
13 going to modify and which items they're not; so
14 we're in that second round phase as you know and
15 we looked at the pieces that NIOSH has put on the
16 table. I don't think that there's a one piece I
17 think that you're working on -- there's one piece
18 we still owe you which was on item eleven. I
19 remember the number of the item but I don't
20 remember the content because I'm not writing up
21 the piece, I'm just coordinating the response to
22 it. I have that should be here in the next few
23 days and I should send it to you either before
24 the first of the year or immediately after the
25 first of the year. That's the only piece that we

1 owe you I think from our side that I remember.

2 **MR. PRESLEY:** We've got that meeting on the
3 nineteenth to try to wrap up as much as we can on
4 that all right. It's taking Wanda's time I know,
5 but --

6 **MS. MUNN:** No, it's okay.

7 **MR. ELLIOTT:** Well, there's one other new thing
8 that I want to offer to you --

9 **MR. PRESLEY:** And I want to --

10 **MR. ELLIOTT:** -- that you might want to take up
11 either on the nineteenth or before the Board
12 meeting in Vegas. We had a number of comments
13 provided to us about the site profile by a
14 claimant from the site. I know the Board and Mr.
15 Presley's working group, SC&A have been copied on
16 those comments from this -- this person. We have
17 prepared in matrices to show how we are reacting
18 in our site revision to -- to his comments. I
19 think it would be good if the working group were
20 you know, involved in this and understood where
21 we were going 'cause it -- there's been a lot of
22 press about some of this person's comments and so
23 it would also offer the opportunity for that
24 individual in a public setting to hear how his
25 comments are being addressed.

1 **DR. MAKHIJANI:** Was I copied on this? I'm not
2 sure --

3 **MR. ELLIOTT:** I'll have to check, it may not have
4 been directed to you -- it may -- well you
5 haven't seen it yet, you haven't seen our
6 matrices. I hope you've seen some of the input
7 that this person's been sending.

8 **MR. PRESLEY:** Some of it, yes.

9 **DR. MAURO:** I've seen some material but I have to
10 say I wasn't sure where -- what it applied to. I
11 need a little help here, could you help us out?

12 **MR. ELLIOTT:** Well this goes to a variety of
13 concerns that this individual is raising, the
14 Brand and the Henry activity not characterized
15 accurately --

16 **DR. MAURO:** Okay.

17 **MR. ELLIOTT:** -- in the site profile. That's one
18 extreme of the spectrum of comments, the other
19 extreme is well there's no -- there's no scale
20 given to certain diagrams and layouts that are
21 presented as exhibits in our site profiles so how
22 could the dose reconstructor use them to estimate
23 distance from where a person stood to the shot
24 kind of a thing. So, we have a matrices now that
25 we've pulled together, we're trying to wrap up a

1 response to a couple final comments that he's
2 given us. I think it would be great if we
3 submitted that to you all so that you could see
4 that. We've -- we've collated all his comments
5 in a long list and tried to identify those that
6 are relevant to the issues in the matrix. So,
7 you know, I just offer that. I think it's going
8 to take a little bit of time to go through that,
9 to wade through that.

10 **MR. PRESLEY:** I don't think -- I don't -- I don't
11 think we're going to be ready to do that by the
12 nineteenth.

13 **MR. ELLIOTT:** The nineteenth is next --

14 **DR. BRANCHE:** Wednesday.

15 **MR. ELLIOTT:** Wednesday.

16 **DR. BRANCHE:** We have an 11:00a.m. call.

17 **MR. ELLIOTT:** I don't know, I can't tell you
18 today how soon we're going to put this matrix
19 out, it was close yesterday except for one or two
20 of these things I've asked for.

21 **MR. PRESLEY:** Yeah, Mark and I talked about this
22 yesterday and that's --

23 **MR. ELLIOTT:** So he did talk to you?

24 **MR. PRESLEY:** Yeah, oh yeah, we've -- we've
25 discussed it, we don't know whether we're going

1 to be able to --

2 **MR. ELLIOTT:** I just think -- I encourage the
3 working group if you would to consider this
4 individual's opportunity to get before you.

5 **MR. PRESLEY:** In other words you would suggest
6 that we meet with this person?

7 **MR. ELLIOTT:** I think if we can get it to you
8 before the nineteenth, now whether you want to
9 take it up in a teleconference call on the
10 nineteenth or not is your business but I think
11 you know, if the Board, at the Vegas meeting
12 site, you have an opportunity to really show this
13 individual what we're doing.

14 **DR. MAKHIJANI:** Mr. Presley, it might be that if
15 NIOSH is finished with their response then Mark
16 Rolfes could present it on the nineteenth.

17 **MR. PRESLEY:** Yeah.

18 **DR. MAKHIJANI:** And then you can decide whether
19 you want us to look at it and comment on it for
20 the Board meeting. I mean, depending on how
21 complex it is I think we might be able to --

22 **MR. ELLIOTT:** I don't think it's that complex
23 actually.

24 **MR. PRESLEY:** No, I don't think it is.

25 **DR. MAKHIJANI:** If it isn't then we might be able

1 to give a response.

2 **MR. PRESLEY:** The other thing is get the NTS
3 group in a meeting after Wanda's meeting, that's
4 the only thing I know to do.

5 **MS. MUNN:** Either that or before it.

6 **MR. ELLIOTT:** Early the next morning.

7 **MS. HOWELL:** There is no -- I mean --

8 **MR. ELLIOTT:** Compromised by the other meetings.

9 **MR. PRESLEY:** Yeah, you've got the other meetings
10 there.

11 **MS. MUNN:** Yeah. We can -- if we don't
12 anticipate the NTS meeting to be very long then I
13 anticipate our meeting will be four hours,
14 possibly five or six; start at one and run to
15 five.

16 **DR. BRANCHE:** Or five thirty.

17 **MS. MUNN:** Or five thirty.

18 **MS. HOWELL:** You can't move the Board meeting or
19 this subcommittee meeting because of the Federal
20 Registry. The other thing is that if people
21 haven't booked their flights out Thursday after
22 the meeting's over -- I know.

23 **MR. ELLIOTT:** Everybody is so exhausted at that
24 point.

25 **MR. PRESLEY:** Yeah.

1 **MS. MUNN:** Yeah.

2 **MR. ELLIOTT:** Totally exhausted.

3 **MS. MUNN:** Yeah, I don't mind doing that because
4 I just have a short flight home.

5 **DR. BRANCHE:** For a change.

6 **MS. MUNN:** But it is a bad time to have a
7 meeting.

8 **MR. HINNEFELD:** Yeah, it can, it's hard to get
9 back.

10 **MR. PRESLEY:** I'm leaving Friday morning, that's
11 the only time I can get out.

12 **MR. HINNEFELD:** But we'll still be worn out.

13 **DR. MAURO:** I know.

14 **MS. MUNN:** Then shall we --

15 **MR. ELLIOTT:** We're either going to do that or
16 face this individual in the full Board meeting
17 during public comment and --

18 **DR. BRANCHE:** And not going to be able to
19 respond.

20 **MR. ELLIOTT:** And not -- you know, not be able to
21 -- so I -- I hate to make life miserable for you
22 folks, but --

23 **MS. MUNN:** Can we just set up a 7:00 p.m. meeting
24 Monday evening?

25 **DR. BRANCHE:** For Nevada -- you mean for Nevada?

1 **MS. HOWELL:** How many OCAS people do you need?

2 **MR. PRESLEY:** They pay us overtime?

3 **MR. HINNEFELD:** Same amount I get paid.

4 **MS. MUNN:** Sure.

5 **MR. ELLIOTT:** Two, three, Rolfes is one, I don't
6 know who, either somebody with Rolfes, either you
7 know, it has to be Stu or me or somebody. You'd
8 have two of us that are --

9 **MR. PRESLEY:** Yeah.

10 **MR. ELLIOTT:** But it also -- there may be some
11 ORAU team members that Mark wants to bring in
12 that could be brought in by phone too. I just
13 don't want us to miss an opportunity here to try
14 to do the right thing by this guy.

15 **DR. MAURO:** I think we have a great opportunity
16 on the seventeenth to get -- right now I know I'm
17 disoriented.

18 **MR. PRESLEY:** Nineteenth.

19 **DR. MAURO:** No, no, I'm sorry, the nineteenth of
20 this month we were going to have a conference
21 call.

22 **MS. MUNN:** Yes.

23 **DR. MAURO:** And between now and then there's no
24 doubt that at least SC&A can sort of get our arms
25 around what the heck is going on, what the issues

1 are, what -- you know, and so at least we can
2 have a productive conversation on what we can
3 accomplish on the -- on the nineteenth and maybe
4 deal with and what really we've got to do when we
5 get to --

6 **MR. ELLIOTT:** We'll make sure the individual
7 knows that the working group is going to meet
8 that day and there'd be a presentation from Mark
9 about this and he could, you know, maybe that --
10 maybe that will be enough, I don't know.

11 **MR. PRESLEY:** And it may be.

12 **MS. MUNN:** But the phone call -- you think the
13 phone call on the nineteenth?

14 **DR. MAKHIJANI:** On the nineteenth we'll just be
15 listening to Mark.

16 (multiple speakers)

17 **DR. MAURO:** Well I know but -- and of course take
18 a look at where we are on the other issues.

19 **DR. BRANCHE:** We have an hour scheduled for
20 Nevada Test Site on Wednesday January 9th, that
21 morning.

22 **MR. ELLIOTT:** That's part of the Board agenda?

23 **DR. BRANCHE:** It's part of the Board agenda.

24 **MR. PRESLEY:** Yeah, because I asked Lew in case
25 that we're able to make our recommendation.

1 **DR. BRANCHE:** What about Wanda's suggestion that
2 we think about having the Nevada Test Site
3 meeting on the evening of the seventh at seven -
4 7 p.m.?

5 **MS. MUNN:** No, that would be a workgroup meeting,
6 not a --

7 **DR. BRANCHE:** Yeah, a workgroup meeting.

8 **MR. PRESLEY:** Workgroup meeting.

9 **MS. MUNN:** That work?

10 **MR. PRESLEY:** If we can get everybody there,
11 yeah.

12 **MR. ELLIOTT:** That just for an hour.

13 **DR. BRANCHE:** So, that's what you're going to do?

14 **MR. PRESLEY:** Go ahead and do it.

15 **DR. BRANCHE:** Okay, 7 p.m. -- So Wanda, the
16 procedures meeting is 1:00 p.m. on Monday the
17 7th?

18 **MS. MUNN:** Yeah, one o'clock will be fine.

19 **DR. BRANCHE:** And Nevada Test Site -- now you
20 definitely want one or you want to hold it now
21 and make it -- make a firm decision on the
22 nineteenth?

23 **MR. PRESLEY:** We'll make a decision on the
24 nineteenth.

25 **DR. BRANCHE:** All right but I still need to have

1 Zaida --

2 **DR. ZIEMER:** Hold it.

3 **DR. BRANCHE:** Hold the time.

4 **MR. PRESLEY:** Hold the time, yeah.

5 **DR. BRANCHE:** 7:00 p.m. Who's baking the
6 cookies?

7 **MS. MUNN:** Seven to nine.

8 **DR. MAKHIJANI:** And there's nothing for one,
9 right?

10 **DR. BRANCHE:** Yeah, on the 7th, this procedures
11 is meeting on the seventh.

12 **DR. MAKHIJANI:** At one?

13 **DR. BRANCHE:** At 1 p.m.

14 **DR. MAKHIJANI:** But there's nothing before one
15 o'clock, right?

16 **DR. BRANCHE:** No, because people are flying in.

17 **MS. MUNN:** All right, following that, there's no
18 question in my mind that we need to have -- we
19 will need to have another meeting of this group
20 before we go to Amarillo in April and --

21 **DR. BRANCHE:** But should be one -- Ms. Munn, just
22 to -- so that you know, I don't know if you want
23 any of the -- anything resolved before the Board
24 has its conference call on February 20th.

25 **MS. MUNN:** No, we won't.

1 DR. BRANCHE: Amarillo, okay.

2 MS. MUNN: Yes, uh-huh.

3 DR. BRANCHE: Amarillo is --

4 MS. MUNN: Is the first week in April.

5 DR. BRANCHE: The second --

6 MS. MUNN: No, actually, first full week.

7 DR. BRANCHE: First full week, it's April 9th
8 through the 11th.

9 MS. MUNN: And I'm looking at sometime in mid
10 March for --

11 DR. ZIEMER: Didn't that get changed the seventh
12 to ninth; is that one that got moved?

13 MS. MUNN: That's seven through nine.

14 MR. PRESLEY: Yeah, that's what I've got.

15 DR. ZIEMER: Nine to eleven and then it got
16 changed.

17 MR. PRESLEY: Yeah, seventh through ninth is what
18 I've got on here.

19 DR. BRANCHE: What did I say?

20 DR. ZIEMER: You said nine through eleven.

21 DR. BRANCHE: I'm wrong, you're right, forgive
22 me. It's April 7th through 9th. Forgive me.
23 Didn't mean -- I just was making sure you were --

24 DR. ZIEMER: It got changed.

25 DR. BRANCHE: I wanted to make sure you were

1 listening.

2 **MS. MUNN:** Mid March in enough time for us to get
3 done whatever we'll need to have done for
4 Amarillo. My guesstimate would be something like
5 Thursday the 13th?

6 **MR. ELLIOTT:** Face to face or teleconference?

7 **MS. MUNN:** Let's plan on face to face, if we can
8 fall back to telecon, then that'll be fine.

9 **MR. PRESLEY:** I'll be there by teleconference.

10 **MS. MUNN:** Okay.

11 **DR. BRANCHE:** Did you say March 13th?

12 **MS. MUNN:** March 13th, procedures.

13 **DR. BRANCHE:** At nine thirty, something like
14 that?

15 **MS. MUNN:** Yeah. All right now then, the hard
16 part. I'm going to try to read through my action
17 items. Are you still awake, Kathy?

18 **MR. PRESLEY:** Can I ask one question?

19 **MS. MUNN:** Yes, sure.

20 **MR. PRESLEY:** The teleconference for the total
21 Board, now is that on the 20th of February?

22 **DR. BRANCHE:** Yes.

23 **MR. PRESLEY:** Okay, that's what I -- I thought
24 somebody said the 25th and I got the 20th there.

25 **MS. MUNN:** No, it's the 20th.

1 **DR. BRANCHE:** No, it's the 20th. The only thing
2 I goofed up on was the --

3 **MR. PRESLEY:** I just -- I heard you wrong, I'm
4 sorry. I just wanted to make sure.

5 **MS. MUNN:** Now the action items that I have
6 number eleven and that's if I lump everything
7 that we're doing with PROC92 into one lump, I'll
8 list those later. The first one was SC&A, that's
9 one of yours Kathy, to determine how we're going
10 to present the page number detail on the -- on
11 the Access database. That should be easy enough.
12 Revise the title of the database. Three,
13 presentations and updates, report, a short report
14 in January and a full report in Amarillo.

15 **MR. MARSCHKE:** Kathy was going to give a
16 presentation to the Board on the capabilities of
17 the matrix?

18 **MS. MUNN:** Yes, uh-huh, yes. Work out all
19 changes to the database; both NIOSH and SCA will
20 be working together on that, I think that will
21 just go sort of automatically. Fifth item, NIOSH
22 will have a response to the OTIB0017, SC&A white
23 paper. Will that be before the Board meeting or
24 will it be after that, Stu?

25 **MR. HINNEFELD:** Well we're running out of time

1 between now and the Board meeting.

2 **MS. MUNN:** I'll write in afterwards.

3 **MR. HINNEFELD:** If I get -- I'll get it out if I
4 can.

5 **MS. MUNN:** March -- well, March meeting probably.

6 **MR. HINNEFELD:** That will be a good -- we should
7 be able to make it easily by then.

8 **MS. MUNN:** Item six, NIOSH is going to take part
9 -- discuss with Jim OTIB001901 and possibly have
10 a page change to clarify when it's going to be
11 used, that will be the next workgroup meeting,
12 again March or can that be -- that was something
13 we kind of hoped for today.

14 **MR. HINNEFELD:** Well, the change was just some
15 specification in that procedure that -- that kind
16 of limits its usage so that you don't just, you
17 know, we can't use it --

18 **MS. MUNN:** Right.

19 **MR. HINNEFELD:** Setting it for ninety-fifth, if
20 you know, it doesn't need to (indiscernible)
21 ninety-fifth percentile.

22 **MS. MUNN:** So that should be okay for the Board
23 meeting, right? Or not?

24 **MR. HINNEFELD:** Well --

25 **MS. MUNN:** Well, March.

1 **MR. HINNEFELD:** I think so, but again, the
2 resources that will make it even though it's a
3 relatively simple change, the people that will do
4 it may be working on other things, so I hate to -
5 - I hate to promise anything in January but I'll
6 provide as much as I can by January.

7 **MS. MUNN:** All right. I won't put a -- I won't
8 put a date on it. Number seven SC&A OTIB0025-01,
9 look at the equations being used again. Any
10 comments by the next workgroup meeting, otherwise
11 it's closed. Item eight, NIOSH OTIB12, continue
12 to review, leave it on the matrix where it is
13 right now and respond in the March time frame to
14 the workgroup.

15 **MR. HINNEFELD:** Sorry, what was that one again?

16 **MS. MUNN:** OTIB12, continue your review, leave it
17 on the matrix where it is.

18 **MR. HINNEFELD:** Okay.

19 **MS. MUNN:** And respond by March. The PROC92
20 lists, number one in abeyance, change the term
21 health physics reviewers to something else. Then
22 number two, was where personalization takes over,
23 it's going to change language -- considering
24 changing the language in the procedure itself.
25 NIOSH is going to review the procedure and

1 identify whether the language needs to be
2 changed. And SC&A is going to provide us with
3 their comments on what needs to be done to
4 actually supplement the discussion. Under action
5 item three under PROC3, NIOSH is going to suggest
6 the changes indicated in the procedure. Finding
7 four was addressed in other findings two,
8 addressed -- addressed in three, addressed in
9 finding two -- so it appears those are the only --
10 -- does anyone have other actions, other than what
11 I just read on PROC92?

12 **DR. MAURO:** It might be a good idea in the place
13 where you talk about item number two, prior
14 authorization language, to make reference to that
15 this is going to be the home for several of the
16 subsequent comments so the person looking at it
17 knows that they have (inaudible).

18 **DR. MAKHIJANI:** Did you mention that SC&A would
19 review and supplement our recommendations?

20 **DR. MAURO:** Yes, that was -- that was part of it.

21 **MS. MUNN:** Yes, uh-huh. All right. Then we have
22 action item ten PROC90, NIOSH will write the
23 summary for each of the boxes that go in there by
24 the March meeting. Action item eleven, OTIB0023,
25 SC&A and NIOSH are going to provide wording to

1 incorporate IG number one into this procedure and
2 we'll talk to see about any further wording
3 that's needing -- what's needed to be indicated
4 there. That, hopefully soon. Anything else,
5 Kathy?

6 **MS. BEHLING:** Wanda, the only thing I was going
7 to go through are the changes that we wanted to
8 possibly introduce into the matrix. And what I
9 have listed here in addition to what you
10 mentioned was that we would attach or link a
11 white paper to our matrix and I did talk with Don
12 Loomis and he indicated that we should be able to
13 do that. So in our details list if there is a
14 white paper that's being presented we will make a
15 statement to that effect to give maybe a file
16 name and if you click on where -- or select that
17 file name it should open up a link to that white
18 paper so you can see that white paper as part of
19 the database.

20 **MS. MUNN:** Excellent, that's perfect for the
21 archives. Great.

22 **MS. BEHLING:** Okay. The other thing we said we
23 would do is we're going to be able to sort and
24 print on just about anything in the status
25 column, open items, things that are still in

1 abeyance, global issues, that type of thing. The
2 third item I have we -- I asked if we were going
3 to be able to search for specific words or terms
4 as we discussed maybe inhalation and have the
5 database return to us all of the procedures and
6 finding numbers where maybe a specific term such
7 as -- yeah, inhalation has been identified as an
8 issue.

9 **MS. MUNN:** All right.

10 **DR. MAURO:** Kathy, in implementing that is that
11 something that when you're building and
12 populating the database you have to mark that
13 word or can you after -- after the fact say
14 listen, please do a search on inhalation just
15 like you do right now in Word Perfect, I can
16 search on any word after the fact and it will --

17 **MS. BEHLING:** It -- it -- I have asked that it
18 will be any word after the fact. It does not
19 have to be -- the only thing we'll have to be a
20 little bit careful of is when we input this data
21 into the database that we choose our words
22 carefully and we try to be consistent so these
23 types of issues can be identified and we can look
24 at them all in a consistent format. The fourth
25 item that I have listed is that we will make the

1 file available in a read-only format on the O
2 drive, I guess under the Advisory Board folder
3 for -- for the workgroup and the Board to be able
4 to go into and look at and you know, see -- see
5 any updates that we put out there.

6 **MS. MUNN:** Great.

7 **MS. BEHLING:** The -- okay, you mentioned the file
8 name change and the last issue excuse me, is that
9 I ask that we have an auto date stamped onto the
10 print format each time either NIOSH or SC&A makes
11 a change to the database so that we always know
12 what the latest version -- when the last time
13 there were any modifications made to the database
14 when we go to print.

15 **MS. MUNN:** All right.

16 **MS. BEHLING:** And I believe that's it. Was there
17 anything else that we committed to changing on
18 the matrix?

19 **MS. MUNN:** I don't believe so; I think you were
20 more thorough than I was making notes. I had
21 just assumed you were going to magically do that.
22 Magic. No, does anyone else have anything that
23 you were unaware of? If not, if no one has
24 anything else to add, thank you very much for
25 your efforts, I appreciate your coming, thank you

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for all you do, we will see you in Las Vegas.

(Meeting concluded 4:05 p.m.)

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CERTIFICATE OF COURT REPORTER**STATE OF GEORGIA****COUNTY OF FULTON**

I, Steven Ray Green, Certified Merit Court Reporter, do hereby certify that I reported the above and foregoing on the day of Dec. 11, 2007; 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 14th day of May, 2009.

STEVEN RAY GREEN, CCR, CVR-CM, PNSC**CERTIFIED MERIT COURT REPORTER****CERTIFICATE NUMBER: A-2102**