

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

convenes

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 July 21, 2008.

STEVEN RAY GREEN AND ASSOCIATES
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July 21, 2008

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-- "*" 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 (ACTING)

KATZ, Theodore M., M.P.A.

Program Analyst

National Institute for Occupational Safety and Health

Centers for Disease Control and Prevention

Atlanta, Georgia

MEMBERSHIP

GIBSON, Michael H.

President

Paper, Allied-Industrial, Chemical, and Energy Union

Local 5-4200

Miamisburg, Ohio

GRIFFON, Mark A.

President

Creative Pollution Solutions, Inc.

Salem, New Hampshire

MUNN, Wanda I.

Senior Nuclear Engineer (Retired)

Richland, Washington

ZIEMER, Paul L., Ph.D.

Professor Emeritus

School of Health Sciences

Purdue University

Lafayette, Indiana

IDENTIFIED PARTICIPANTS

ADAMS, NANCY, NIOSH
BRACKETT, LIZ, ORAU
CHEW, MEL, CHEW AND ASSCS.
ELLIOTT, LARRY, NIOSH
FERGUSON, MICHELLE, ORAU
HINNEFELD, STUART, NIOSH
HOMOKI-TITUS, LIZ, HHS
MAKHIJANI, ARJUN, SC&A
MAO, REBECCA, OCAS
MARSCHKE, STEVE, SC&A
MCGOLERICK, ROB, HHS
MORRIS, ROBERT, ORAU
NETON, JIM, NIOSH
SHATTO, DAVID, ORAU
SIEBERT, SCOTT, ORAU
SMITH, MATT, ORAU
THOMAS, ELYSE, ORAU

P R O C E E D I N G S

JULY 21, 2008

(9:30 a.m.)

OPENING REMARKS

1
2
3
4
5 **MR. KATZ:** Good morning. This is the
6 Advisory Board on Radiation and Worker Health,
7 and this is the Procedures work group of that
8 board. This is Ted Katz. I am acting as the
9 designated federal official because Christine
10 Branche, who ordinarily is in this position,
11 is presently acting as the Director of NIOSH.
12 So to start with let's take attendance.
13 First, in the room if everybody on the
14 Advisory Board that's with this working group
15 would identify themselves to begin.

16 **MS. MUNN:** This is Wanda Munn, chair of the
17 working group.

18 **DR. ZIEMER:** Paul Ziemer, member of the work
19 group.

20 **MR. KATZ:** And that's it in the room. And
21 on the telephone are there any Advisory Board
22 members on the telephone?

23 **MR. GIBSON (by Telephone):** Yeah, Ted, this
24 is Mike. I'm here.

25 **MR. KATZ:** Welcome, Mike.

1 Mark Griffon? Does anyone know is
2 Mark --

3 **MS. MUNN:** He indicated that he would
4 probably be late because of some medical
5 problems in his family, but that he expects to
6 be on hopefully by eleven o'clock.

7 **MR. KATZ:** Next let's just identify ORAU or
8 NIOSH, OCAS participants in the room first.

9 **MR. ELLIOTT:** Larry Elliott, Director of
10 OCAS.

11 **MR. HINNEFELD:** Stu Hinnefeld, Technical
12 Program Manager, OCAS.

13 **DR. NETON:** Jim Neton, OCAS.

14 **MS. THOMAS:** Elyse Thomas, O-R-A-U.

15 **MR. SIEBERT:** Scott Siebert, O-R-A-U.

16 **MR. KATZ:** And then on the telephone, any
17 ORAU, NIOSH participants?

18 **MS. MAO (by Telephone):** This is Rebecca
19 Mao. I'm on detail at OCAS here.

20 **MR. SMITH (by Telephone):** This is Matt
21 Smith with O-R-A-U team.

22 **MR. KATZ:** And now SC&A participants on the
23 phone.

24 **MR. MARSCHKE (by Telephone):** Steve
25 Marschke.

1 **MR. KATZ:** Arjun, are you attending?

2 (no response)

3 **MS. MUNN:** Steve, to the best of your
4 knowledge, are you the only one who's going to
5 be on for SC&A?

6 **MR. MARSCHKE (by Telephone):** I thought
7 Arjun was going to be on, but maybe he got
8 caught up in the air traffic trouble.

9 **MS. MUNN:** Okay, thank you.

10 **MR. MORRIS:** This is Bob Morris with Oak
11 Ridge team. I just joined.

12 **MR. KATZ:** Oh, great. Welcome, Bob.

13 Now other federal employees
14 participating in the room.

15 **MS. HOMOKI-TITUS:** Liz Homoki-Titus with
16 Health and Human Services.

17 **MR. KATZ:** And on the telephone?

18 (no response)

19 **MR. KATZ:** And then anybody else who would
20 like to identify themselves who's
21 participating by phone.

22 **MS. BRACKETT (by Telephone):** This is Liz
23 Brackett. I'm with the ORAU team. I just
24 joined.

25 **MR. KATZ:** Oh, welcome, Liz.

1 **MS. FERGUSON (by Telephone):** Michelle
2 Ferguson. I'm with the ORAU team.

3 **MR. KATZ:** Welcome.

4 Is there anyone else, congressional
5 staff, that would like to identify themselves?

6 (no response)

7 **MR. KATZ:** Members of the public?

8 (no response)

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

10 **MR. KATZ:** It's all yours, Wanda.

11 **INTRODUCTION BY CHAIR**

12 **MS. MUNN:** Thank you very much.

13 Everyone I hope has a copy of the
14 agenda. Does everyone on the phone have a
15 copy of the agenda as well? We're not going
16 to go down these in order. It was not my
17 intent. I just wanted to get those items on
18 your desk so that you could see what we were
19 hoping to accomplish today. We have
20 information that Mel Chew will be with us at
21 ten o'clock.

22 Bob, we're glad you're already on.
23 Thank you.

24 Perhaps before we undertake OTIB-0052
25 at ten o'clock, we can run through our first

1 item that the list of items, the discrepancy
2 items, that Steve Marschke had noted for us
3 from the database. I hope that those will be
4 fairly easy to go through if we can take them
5 one at a time.

6 Stu, could I ask you to start with the
7 item entitled, "Resolution of discrepancies in
8 database"?

9 **RESOLUTION OF DISCREPENCIES IN DATABASE ITEMS**

10 **MR. HINNEFELD:** Friday we did finally get
11 the latest version of the database copied over
12 to the NIOSH side. If you recall this
13 database resides on the ORAU system, and when
14 we want the updated version we simply call it
15 over and have it transferred so we have the
16 latest version. And it appears that there was
17 something about that copying over that wasn't
18 working exactly right because we would think
19 we had it, and then it wouldn't be updated.
20 But Friday we did get the updated version and
21 I checked all of these, and the NIOSH status
22 is now matched on Friday, I better not say
23 today, on Friday the NIOSH statuses matched
24 what the BB on all four of these documents.

25 **MS. MUNN:** So TBD-6000 BB item 13 is in

1 progress?

2 **MR. HINNEFELD:** There are 13 items in
3 progress.

4 **MS. MUNN:** And they're all in progress?

5 **MR. HINNEFELD:** They're still in progress on
6 the NIOSH side. They did on Friday.

7 **MS. MUNN:** And OTIB-0002, those seven are
8 all showing open.

9 **MR. HINNEFELD:** They're open, yeah.

10 **MS. MUNN:** And PROC-0080, two items show
11 closed. And PROC-0095, those three items show
12 open.

13 **MR. HINNEFELD:** Yes.

14 **MS. MUNN:** Good.

15 Steve, did you have any comment to
16 make on that, one way or the other?

17 **MR. MARSCHKE (by Telephone):** No, I think
18 that I agree with the situation as it is now.

19 **MS. MUNN:** Good, thank you very much.

20 **FULL REVIEW OF DATABASE CONVERSION TO SQL STATUS**

21 As long as we're talking about that
22 database, and the first item that we mentioned
23 on the agenda was reviewing the database
24 conversion to SQL, do we have, is it going to
25 take us more than 15 minutes to address that,

1 do you think?

2 **MR. HINNEFELD:** Well, probably not because I
3 don't know enough about it to talk longer than
4 that. Because I just started trying. I can
5 show you a demo of what the SQL procedures
6 tracking application looks like. Now this is
7 an application, I think if I can get the TV to
8 work, if the TV and my computer will both
9 work.

10 This is a document tracking
11 application that we had in place for tracking
12 documents that are reviewed. And these are
13 documents that are the contractor prepares it;
14 they submit to us for review and approval.
15 This would track our review and approval on
16 those, including our comments and comment
17 resolution. And I think evaluation reports
18 probably are going to be in here eventually.

19 And this will be sort of a modular
20 system that will allow very many of these
21 document review applications to be captured on
22 a single system. And so all the work that
23 we've accomplished then we can have a record
24 on this one system, all the work that's gone
25 on. It is structured such that various people

1 have various rights to different types of
2 documents. So they would be able to view, and
3 in some cases write to, the database for the
4 documents that they have business looking at.

5 So the Board review documents would be
6 a particular category of document here that
7 the Board members could look at, SC&A members
8 certainly, maybe designated ones, whoever SC&A
9 designates to want to be able to see it and
10 ORAU and NIOSH people would be able to look at
11 it. And so it's a comprehensive, it wasn't
12 built specifically for procedures tracking,
13 procedures review tracking, but it's to adopt
14 this structure for that.

15 And this would then allow everybody to
16 write to the same system, the SQL has the
17 advantage over ACCESS in that you can write,
18 we can write on our system, ORAU can write on
19 their system, everybody can write on their own
20 system, whatever system you write to, SQL will
21 keep track of that so everybody will see all
22 the up-to-date changes.

23 This is a work in progress. This was
24 rushed out for me to be able to show today.
25 So there are things that could be done, things

1 that could be done to modify this if need be,
2 I think. Since I don't have to do it, I can
3 speak with assurance that someone can. And so
4 I'll try to get whatever demo I can have.

5 I do have a little bit of a users'
6 guide that I may have to refer back and forth
7 to and then when I do it will show up on the
8 TV screen as well. This is the default. This
9 is what it opens in when you go there.
10 There's a location right now, I believe this
11 is probably on a test server. I don't believe
12 it's on an operational or production server
13 right now. I believe it's a test server.

14 **MS. MUNN:** So we will have a specific icon.

15 **MR. HINNEFELD:** Yeah, there'll be a specific
16 place where you'll look at it. So you go to
17 the O drive. It'll be there, and it will open
18 like this. And the default screen is the
19 documents that are in the system. And in this
20 case, these documents I believe are all the
21 documents that are in the procedure review
22 process, the Board's procedure review process.

23 **MS. MUNN:** Good. We're not going to make a
24 mistake in getting these mixed up with any
25 other database tracking that's going on.

1 **MR. HINNEFELD:** No.

2 **MS. MUNN:** Good. Thank you; that would
3 really confuse me.

4 **MR. HINNEFELD:** The statuses that are in the
5 system so far are completed, open and deleted.
6 The reason for that is that we like in
7 developing these to essentially limit the
8 number of statuses because when you start
9 adding specialty statuses, you end up with a
10 lot. For instance, we made specialty statuses
11 for dose reconstructions that we tracked
12 through NOCTS.

13 We probably now have 30 statuses for
14 dose reconstructions that are going through
15 the system because when you want to keep track
16 of the history of a document and its status,
17 of a review in its status, then there are a
18 lot of things you want to keep track of. And
19 so you get a lot of different statuses.

20 The reason we have like 30 different
21 statuses on dose reconstructions is we have
22 open, completed, pended, which means that we
23 need additional information in order to see.
24 Pulled which means DOL has taken it back
25 without a dose reconstruction being completed.

1 We've been very clear about the difference in
2 that in our case.

3 **MR. HINNEFELD:** I think we'll want to retain
4 that just for ease of finding what you need to
5 work on, you know, when you work with the
6 database you want to keep that. But I think
7 our preference would be to keep it in a field
8 other than the status field, have the status
9 field to be open or closed.

10 **MS. MUNN:** Yes, Paul?

11 **DR. ZIEMER:** I have a question, Stu. Could
12 you clarify? Is this a separate database for
13 you to track your procedures or is it a sort
14 on the procedures database or is it both?

15 **MR. HINNEFELD:** I think probably they are,
16 they could very well be linked, could be
17 pulling data from the same data tables, but I
18 don't know that that's the case.

19 **DR. ZIEMER:** Right now it's a separate
20 database in your point of view simply --

21 **MR. HINNEFELD:** Well, we always think of
22 these things as applications. You know, we
23 have these data tables where we try to keep
24 track of pretty much everything. And so when
25 we have something like this, this is an

1 application that pulls data from whatever data
2 tables it needs to pull it from in order to
3 put in the usable form that you want it. So
4 we have applications that work similarly.
5 They're all in SQL. They kind of run on the
6 same platform. They're applications that
7 track dose reconstructions through the
8 process, map a case as it moves through the
9 process. They keep track of documents. We
10 have another, a linked one that keeps track of
11 SEC activities and what's happening to SEC
12 activities. So rather than think of this as
13 its own database, it may, in fact, require the
14 addition of some data tables or data fields to
15 existing data tables. But it pulls from data
16 tables that we keep.

17 **DR. ZIEMER:** Well, I can't read it too well,
18 but if you scroll down, well, let's say the
19 first item, which looks like the ORAU
20 procedure.

21 **MR. HINNEFELD:** Yes, that one is an ORAU.

22 **DR. ZIEMER:** And it says it's open. If you
23 click on that, does that move it into or can
24 you from this find the procedure review? Does
25 it move it into the other database or is

1 everything that we have also on here? Or do
2 we know at this point?

3 **MR. HINNEFELD:** I think probably the review
4 of this procedure has not been loaded yet, but
5 it could be linked to be brought up.

6 **DR. ZIEMER:** It could be or is that the
7 intent? I'm just trying to get a feel for
8 what this is compared to what we're doing.

9 **MS. MUNN:** Yeah, and I certainly hope that
10 the intent is to link it because --

11 **MR. HINNEFELD:** You mean the document
12 itself. You mean the entire document that
13 SC&A wrote, the big, thick document?

14 **DR. ZIEMER:** No, no.

15 **MS. ADAMS:** Your comments.

16 **MS. MUNN:** We mean this.

17 **DR. ZIEMER:** If this procedure has been
18 reviewed, does that show up here and does it,
19 do the findings show up here?

20 **MR. HINNEFELD:** Yeah. I just clicked on it.
21 I just didn't click on the top one, and it
22 takes you to the detail page. And the detail
23 is to now, the detail displays here. These
24 are the assigned reviewers. These are the
25 people who would see this when they open up

1 the application. So the members of these
2 groups would see this.

3 **DR. ZIEMER:** So the SC&A findings show up
4 here.

5 **MR. HINNEFELD:** Yes. And this defines
6 document owners and editors. In other words
7 that's changing this document here. I think
8 if I can get that document --

9 **DR. ZIEMER:** It looks like they're already
10 linked.

11 **MS. MUNN:** It looks like it, yeah.

12 **MR. HINNEFELD:** And so, yeah. So there's
13 some fields that are not populated. I mean,
14 we could populate these.

15 **DR. ZIEMER:** But at the front end does this
16 show up as a separate entry into that from our
17 --

18 **MS. MUNN:** Yeah, that's what I was asking
19 will there be a separate icon for this.

20 **MR. HINNEFELD:** This will be, you'll have an
21 icon that will take you to the default screen,
22 which is where I started.

23 **DR. ZIEMER:** This starts out with a list of
24 all procedures.

25 **MR. HINNEFELD:** All procedures reviewed.

1 That's where the application opens. The
2 application opens by showing you that. And
3 then what I did just a minute ago, I hope it
4 does it again for me, I just clicked on that
5 first one, on PROC-0097, and it took me to the
6 detail sheet, the detail page for PROC-0097.
7 And then I have noticed that the arrangement
8 of these is upside down from what we've been
9 using. Finding number one is at the bottom of
10 the list. And it works up, and it works up
11 chronologically.

12 **DR. ZIEMER:** The most recent ones at the
13 top.

14 **MR. HINNEFELD:** So you can read in the
15 description what, this is the SC&A finding. I
16 think that will take you to the full statement
17 of it, and actually, we can see what kind of
18 data. Like I said, I got this Friday, and I
19 didn't play with it a lot. It takes you to
20 the full statement of the finding.

21 **MS. MUNN:** It looks to me as though we're
22 almost there, but I'm not sure that it's
23 workable for those of us outside the agency
24 and SC&A yet.

25 **MR. HINNEFELD:** Well, we'll get user guides

1 out. I mean, we can send a user guide that
2 gives some description on how to move around
3 the fields or move around the screen.

4 **MR. MARSCHKE (by Telephone):** Stu, this is
5 Steve Marschke. When will we be able to get
6 access to the test server so that we could
7 kind of go in and maybe play around with it a
8 little bit and --

9 **MR. HINNEFELD:** Well, our hope, our
10 expectation is to roll this out on the
11 production server for the NIOSH users toward
12 the end of this month. Now these dates are a
13 little soft. And then after that we would
14 have it available to ORAU, the ORAU side, and
15 then once it's on the ORAU side on the O
16 drive, then SC&A and the work group could have
17 access to it. I mean, we could grant right
18 away.

19 I think that modification to this
20 won't be too terribly difficult. I don't
21 think if there are things that we want it to
22 look differently or if we want it to, you know
23 like I said, certain data fields we want to
24 add that are not there now, I think we'll be
25 able to do that in a relatively

1 straightforward fashion.

2 **MS. MUNN:** Well, if those fields with which
3 I was concerned are imbedded in the detail of
4 the --

5 **MR. HINNEFELD:** Well, those show up in here,
6 the detailed statements on the detail sheet.
7 Now, I put PROC-0097, the thing to remember
8 about PROC-0097 is we've not given you any
9 responses on PROC-0097 yet. So if you look on
10 the ACCESS database the only thing it will say
11 is the statement of the finding. Now, if I
12 pick a different one, and I don't know well
13 enough ^ I'm going to go back to the document
14 with this one.

15 **MS. ADAMS:** Try OCAS-0001. It had 17
16 findings, eleven are closed.

17 **MR. HINNEFELD:** Is that an OTIB or IG or
18 what is it?

19 **MS. ADAMS:** It's an IG.

20 **MR. HINNEFELD:** And part of the delay here
21 is that I'm on a wireless system going into my
22 account at work. I think if you're on the O
23 drive you can go quicker. Well, actually, we
24 should see the status on this page and how
25 many are opened and closed. Now, that was

1 changed late last week so this should be up to
2 date I would think. So we should get the
3 status of the number of findings, the number
4 open on the first page. I forgot to look.
5 This is IG-001, Rev. 2 had 24 findings and 13
6 were still active. Does that sound right?
7 No?

8 **MS. ADAMS:** Not according to the chart.

9 **MR. HINNEFELD:** Is that Rev. 2 that you're
10 looking at?

11 **MS. ADAMS:** No, I was looking at Rev. 1.

12 **MR. HINNEFELD:** Well, it may not be loaded
13 yet because they haven't gotten everything
14 loaded yet.

15 **MS. MUNN:** Rev. 1 shows on Nancy's list is
16 17 ^ findings. Rev. 2 --

17 **MS. ADAMS:** Eleven closed and five in
18 abeyance and one transferred. I picked that
19 one because it had the various categories.

20 **MR. HINNEFELD:** I don't know. Maybe they've
21 not loaded all the data yet because like I
22 said, they were struggling to get this up to
23 date, and I suspect they haven't loaded the
24 two datasets yet.

25 **MS. ADAMS:** That could be it. And when I

1 talked to Leroy on Friday, what we were trying
2 to do was just to get the summary tables
3 together so we could see what had changed
4 since the last meeting.

5 **MS. MUNN:** Yes.

6 **MS. ADAMS:** And what we passed out here is
7 the report of the summary of the status of
8 things.

9 **MR. HINNEFELD:** So I think what you have is
10 correct because I wouldn't trust that they've
11 loaded all the data in this database for this
12 demo. I noticed that on one of the summaries
13 is OCAS PR-3, where there's a total of 11
14 total and 11 closed. Those numbers, in fact,
15 do match, eleven findings total and none of
16 them remain ^ . So that number does match with
17 OCAS PR-3.

18 **MS. MUNN:** You've got four total findings
19 and four are open?

20 **DR. ZIEMER:** That's five.

21 **MR. HINNEFELD:** No, it's -- yeah, that's
22 five. PR-3 has 11.

23 **DR. ZIEMER:** There's 11 and 11. Eleven
24 findings, 11 closed.

25 **MR. HINNEFELD:** PR-5 does, in fact, show

1 four total findings and four all open.

2 **MS. MUNN:** Why do we have two PER-3 with
3 zeros?

4 **MR. HINNEFELD:** PER-3 what now?

5 **DR. ZIEMER:** Oh, no, that's IG-002. It's
6 just up a line.

7 **MS. MUNN:** PER as opposed to PR, okay, got
8 it. That's new to me, sorry. Get my alphabet
9 right.

10 Well, with any luck at all probably by
11 our next meeting this conversion will be
12 further along so that it'll be a little easier
13 for us to ask specific questions, right?

14 **MR. HINNEFELD:** Right, and I did want to
15 show that on a procedure where responses have
16 been made -- I'm going to go with three and
17 hope that this is, in fact, fully loaded --
18 when you look at the detail screen --

19 **DR. ZIEMER:** Which one is this?

20 **MR. HINNEFELD:** This is OCAS PR-3. You will
21 see the SC&A finding and directly on top of
22 that in order are the discussion that is in
23 the database, the detailed discussion, so
24 there are the NIOSH fields, the work group
25 directives, are in there in the detailed

1 discussion. And I believe if you would click
2 on these it will open up the full text if the
3 full text doesn't display in the box.

4 Now this is a very short text so it's
5 a very short response and so it's probably
6 going to show up in the text box, the
7 description box on the previous page. Now you
8 should be able to navigate with your
9 navigation buttons up here. If you hit back,
10 it should take you back to the last screen.

11 **MS. ADAMS:** The hope with where we're going
12 on this is that these are all the modules of a
13 big system and that eventually if you pull up
14 one of these documents, it will tell you how
15 many SECs are affected by it, how many claims
16 are affected by it, how many findings.

17 I mean, that it'll be anything that
18 you want we'll be able to tie it in and you'll
19 be able to see what kind of an effect your
20 decisions or your work will have as a result
21 of working on this or on the other side coming
22 back the other way.

23 **MS. MUNN:** Things well outside the purview
24 of this work group. Everything.

25 **MS. ADAMS:** Correct.

1 findings, the ones we really haven't discussed
2 yet, we'll be able to find those readily. And
3 then, for instance, I can look at the in
4 abeyance ones to check and see if we've issued
5 that document yet. So then the feeling being
6 then the document revision's okay, and we can
7 move it to closed. So that's one thing I know
8 that we want to do.

9 **MS. MUNN:** And that's good. I'd hate to
10 lose the specificity that we worked on trying
11 to establish these various levels of status in
12 the work we've done.

13 Yes, Paul.

14 **DR. ZIEMER:** Just out of curiosity, Stu,
15 could you look at the one, it's O-R-A-U OTIB-
16 0004 where there've been six items
17 transferred? What is that going to look like?

18 **MR. HINNEFELD:** I don't know because I don't
19 know that I had a discussion with the TST guys
20 --

21 **DR. ZIEMER:** What would show up here on your
22 --

23 **MR. HINNEFELD:** We can make that either. We
24 can set the business rules for that.

25 **DR. ZIEMER:** Yeah.

1 **MR. HINNEFELD:** And if something is
2 transferred, we can call it closed.

3 **DR. ZIEMER:** What shows up now --

4 **MR. HINNEFELD:** I'm going to check because I
5 don't know. You said OTIB-0004?

6 **DR. ZIEMER:** It's OTIB-triple-0-4, Rev. 03.
7 It's an O-R-A-U...

8 **MS. MUNN:** That will be one of the more
9 complex trappings I would think.

10 **DR. ZIEMER:** The SC&A sheet shows six items
11 transferred out on that one.

12 **MR. HINNEFELD:** How many does it show
13 closed?

14 **DR. ZIEMER:** And two closed. And then
15 there's two others. On this SC&A sheet it's
16 fourth from the bottom.

17 **MS. MUNN:** Someone on the phone is trying to
18 say something.

19 **MR. MARSCHKE (by Telephone):** There's two
20 addressed in other findings.

21 **MR. HINNEFELD:** Okay, OTIB-0004, here it is.
22 It shows 21 findings and ten of them still
23 active, but that is different than...

24 **MR. MARSCHKE (by Telephone):** Yes, but
25 that's basically the sum from Rev. 2 and Rev.

1 3, is 21.

2 **MR. HINNEFELD:** Aha. And so if it is, in
3 fact, showing the sum of those two revisions,
4 then it shows ten remaining active, so that
5 counts all the in abeyance and transferred and
6 addressed in finding, blank, in the, because
7 those are the ten active according to the
8 status report. So then those are counted as
9 active with the two status.

10 **MR. MARSCHKE (by Telephone):** So anything
11 that's not closed is open.

12 **MR. HINNEFELD:** Correct.

13 **DR. ZIEMER:** So the two from Rev. 2 carry up
14 to --

15 **MR. HINNEFELD:** Well, I think that might be
16 a glitch. I think we may need to fix that and
17 make sure that those are, I would guess you
18 would want them to appear separately.

19 **MR. MARSCHKE (by Telephone):** That's the way
20 we've been doing it, yeah.

21 **DR. ZIEMER:** Yeah. There's two in abeyance
22 from Rev. 2 and then Rev. 3 stands on its own
23 I guess.

24 **MR. HINNEFELD:** I would think that we would
25 want to keep those, rather than see them

1 consolidated in two different reviews,
2 essentially two different versions of a
3 document. You'd want to see each of those
4 reviews separately.

5 **DR. ZIEMER:** The six items that transferred
6 though, do they show up currently on your --

7 **MR. HINNEFELD:** Well, I should be able to
8 find the detail on them, and I don't know if
9 they were transferred to another procedure if
10 they would show up there or not.

11 **MS. MUNN:** That's been one of our concerns
12 from the outset is to make sure that when we
13 complete something or transfer it that it
14 doesn't fall through a crack somewhere and
15 disappear. So that cross-checking --

16 **DR. ZIEMER:** There's a transfer there on the
17 right, Stu, right there. See that one on the
18 right column? So that one does show up.

19 **MR. HINNEFELD:** This says it was...

20 **DR. ZIEMER:** So this is estimate of maximum
21 particle -- plausible dose for workers.

22 **MS. MUNN:** Then if it was transferred to
23 another procedure somewhere, then we need to
24 know where that is.

25 **MR. HINNEFELD:** I bet this was, since it's a

1 PROC-0004 thing, I bet it was to universal
2 scientific issues, or what do we call those?
3 Overarching issues?

4 **MS. ADAMS:** Overarching issues.

5 **MR. HINNEFELD:** I bet it was to that since
6 PROC-0004, but I don't see it right now so
7 that's something else we need to keep track
8 of.

9 **MS. MUNN:** But we need to be able to know
10 where it went to. And not only do we need to
11 be able to know where it went to, we need to
12 be able to have assurance that its resting
13 place is addressing it properly. And we can't
14 just walk away from it.

15 **DR. ZIEMER:** So right now you do show that
16 it's been transferred and then that detail is
17 not fully there, I guess, at this point.

18 **MR. HINNEFELD:** Yeah.

19 **MS. MUNN:** It may be too early a day for us
20 to be trying to get much further with that.
21 Do we need to say anything else about that
22 right now? I'm assuming we'll have chapter
23 two at our next meeting, whenever that might
24 be.

25 **MR. HINNEFELD:** Sure, it may be even

1 available before.

2 **MS. MUNN:** Good, that's great.

3 Let's close that item and go to our
4 ten o'clock item. Has Mel Chew joined us?

5 **MR. CHEW (by Telephone):** Yes, I am, Wanda.
6 I can hear you. Can you hear me?

7 **MS. MUNN:** Yes, we can. You're coming
8 through loud and clear.

9 **MR. CHEW (by Telephone):** Thank you very
10 much. Good morning, Wanda.

11 **MS. MUNN:** Good morning. We're glad that
12 you can join us now.

13 **DR. MAKHIJANI (by Telephone):** Arjun
14 Makhijani has also joined you.

15 **MS. MUNN:** Hi, Arjun, good. We have you
16 both. Thank you very much.

17 **MR. CHEW (by Telephone):** I think Bob Morris
18 is on the line.

19 Bob, are you there?

20 **MS. MUNN:** Bob was on early on.

21 **MR. CHEW (by Telephone):** Good, wonderful.

22 **OTIB-0052**

23 **MS. MUNN:** We have all three of you. That's
24 great. We want to begin this by having Steve
25 address the items in OTIB-0052 that we have

1 outstanding and that are still being discussed
2 as not yet agreed upon. Who do we want to
3 take the lead on that?

4 Stu, do you want Steve to do it or do
5 you want --

6 **MR. HINNEFELD:** Well, I would like either
7 Jim or whoever Jim designates.

8 **DR. NETON:** Well, I would actually prefer if
9 Steve would kick it off with his findings that
10 he feels remain open, and we could take the
11 discussion from there.

12 **MR. ELLIOTT:** Could we find out how long Mel
13 has to be available for us because I know he's
14 going to go to the Savannah River site for
15 document review shortly.

16 **MR. CHEW (by Telephone):** Yeah, I'm good.
17 Is that you, Larry?

18 **MR. ELLIOTT:** Yes.

19 **MR. CHEW (by Telephone):** I'm here. I'm
20 actually at the Document Center so they set me
21 up with a conference room and a telephone, and
22 so I'm good. And so I'm just waiting for Tim
23 and Sam and Brent to arrive and so they'll be
24 here about one o'clock. So I'm in your time.

25 **MS. MUNN:** Wonderful, thank you.

1 **DR. NETON:** I thought if Steve could kick it
2 off the findings that, you know, I think
3 there's six that remain open.

4 **MR. MARSCHKE (by Telephone):** Okay.

5 **DR. NETON:** Just generally state the issue
6 and then we can discuss it. We don't have any
7 formal handouts for this meeting. They were
8 late coming and rather than confuse everyone
9 with putting out things that they could read
10 at the table, we thought we would just engage
11 in a dialogue with where we are right now in
12 our thoughts on these six findings.

13 So, Steve, it's yours.

14 **MR. MARSCHKE (by Telephone):** Okay, I'm just
15 looking at, just reading, one of the reasons
16 in the, the finding was plutonium and/or
17 uranium were used for comparing internal
18 doses. What about other radionuclides?

19 And I guess the NIOSH response was the
20 vast majority of the bioassay at the DOE
21 complexes is for plutonium and uranium, data
22 on other radionuclides is limited the results.
23 Consequently, meaningful comparison between
24 groups for the less prominent radionuclides
25 were not judged to be feasible.

1 And what caught my eye on that is
2 feasible or not, it shouldn't be the criteria.
3 It's whether or not it's necessary. So I was
4 just, I agree with the response that saying,
5 yes, the vast majority of the bioassay data is
6 for plutonium and uranium, but the fact that
7 there are smaller amounts of data, if any
8 data, for the other radionuclides.

9 I mean, what is the scientific or
10 technical reason for not using that data or
11 for using the plutonium and uranium data only
12 and not using any data for like cesium or if
13 they have any data on that. I guess that's
14 really my, the reason I kept that open was
15 less prominent, comparison between groups of
16 less prominent radionuclides it may be
17 necessary to do less prominent radionuclides
18 if the plutonium-uranium doesn't always
19 dominate.

20 **MR. CHEW (by Telephone):** Jim, do you want
21 me --

22 **DR. NETON:** Mel, why don't you kick that
23 off?

24 **MR. CHEW (by Telephone):** Steve, thank you
25 very much. I understand your comment. I

1 think it's clear. Actually, we looked.
2 Remember, this is what we tried to do is to
3 look at what construction workers might have
4 been exposed to and even unmonitored
5 construction workers looked at. But as we
6 went and gathered data from all the sites
7 here, we certainly saw occasionally bioassay
8 results for some of the other nuclides like
9 you have mentioned here.

10 Then the key, the question, is were
11 they were for the people who were working at
12 the site on the processes or were they related
13 to construction workers who were either
14 monitored or potentially unmonitored. And I
15 think our position at the time was that the
16 few that we saw, and we looked at Nevada Test
17 Site, INEL, Hanford, Savannah River especially
18 here, there were very few that we did see was
19 potentially even the exposures to the process
20 people or the all monitored worker was most
21 likely episodic especially.

22 There was nothing that you saw on a
23 routine basis that they got exposures on a
24 regular operation other than episodic other
25 than the plutonium and uranium and possibly a

1 little bit of tritium here. And so the
2 question was really that when we're focusing
3 this document on making sure that we're
4 looking at comparing the non-monitored
5 construction worker to a construction worker
6 versus looking at all of the people who were,
7 the all monitored worker data.

8 We just didn't have enough data with
9 what I would consider to make any kind of
10 conclusion that would show that any of the
11 information we would gather would make it
12 statistically meaningful that unmonitored
13 construction worker would have gotten even any
14 exposure at all and that greater than people
15 who were construction workers who were
16 monitored as even compared to all of the other
17 folks at the people who were in the process.

18 And so the answer to your question,
19 Steve, I think we went to the information with
20 the most data, and that's certainly the
21 plutonium and the uranium were we able to find
22 construction workers at those sites that were
23 routinely monitored so we can have enough data
24 to make something statistically meaningful
25 here. So the bottom line is that some of

1 those unusual, some of the more unusual
2 isotopes we just didn't find enough data to do
3 anything with.

4 Jim, you want to add to that? I think
5 that's where I am right now.

6 **DR. NETON:** Yeah, I don't know there's much
7 more to add here other than if you look at
8 what we set out to try to do was there were
9 some assertions made by a number of folks that
10 construction workers were more highly exposed
11 than the all monitored workers or the regular
12 staff at the site. So Mel went out and found
13 the data we had, and we focused on areas where
14 the data, like Mel said, were more abundant.

15 And correct me if I'm wrong, but I
16 don't recall that we really found any real
17 differences for the internal exposures at any
18 of the sites save, I think, Hanford. And so
19 that gave us a fairly good feeling that we
20 were not seeing any major differences in the
21 exposure patterns in those two types of
22 workers.

23 I don't know how we could get much
24 more down in the weeds on this given the data
25 are not sufficiently robust on these smaller

1 levels of exposure or smaller, not levels of
2 exposure, but smaller exposure scenarios I
3 guess.

4 **MR. CHEW (by Telephone):** And remember,
5 we're talking about internal exposures here
6 and that's the real key. And when we actually
7 looked at the data, and especially in places
8 where we were able to pull out actual
9 individual data for construction workers, you
10 just did not see unusual isotopes here other
11 than plutonium and uranium.

12 **DR. MAKHIJANI (by Telephone):** This is
13 Arjun. A couple of things. First of all, if
14 there aren't major differences in internal
15 exposures between construction and production
16 workers, that means construction workers were
17 being comparably exposed. And then in the
18 '50s and '60s in many places internal exposure
19 coverage was really far from complete, and in
20 some places was very, very spotty and the
21 relevant radionuclides were not being covered.

22 Other than Nevada Test Site, let me
23 just mention the various incidents, and this
24 would be episodic, but it does go to how much
25 exposure there might have been. All the

1 spills and incidents in the tank farms and
2 some on the early site and I'm not as familiar
3 with this as at Hanford, but one wonders
4 whether the people who handled that, the
5 construction workers, the trades people, were
6 monitored for radionuclides that were fission
7 products that would be the main thing in the
8 high-level waste in the tank farms. So these
9 other -- it's not a question of degree of
10 exposure I think. I think the item is what
11 happened to the other radionuclides, or are we
12 ready to say that they're not relevant.

13 **MR. CHEW (by Telephone):** Well, I think I
14 agree with you. I don't think they are
15 relevant, and I just think I agree, I think,
16 Arjun, especially with the construction
17 workers or even the unmonitored construction
18 worker. The only records that we have
19 obviously would be the construction workers
20 who were monitored.

21 And so from what we saw, because I was
22 able to try to pull data that we can use to
23 say, yes, these people, the monitored
24 construction workers, were exposed to these
25 kinds of activity here. And in the results

1 that we saw we just didn't see a lot of what
2 you'd consider the other radionuclides other
3 than plutonium and uranium.

4 So I think we need to stand by that
5 very fact that the likelihood of any exposures
6 to even the unmonitored construction worker is
7 even more unlikely as compared to even the
8 ones that we did see for the monitored
9 construction workers.

10 **DR. MAKHIJANI (by Telephone):** Well, I think
11 you misunderstood me. I wasn't saying that
12 I'm ready to say they were not relevant or we
13 are ready to say. I was inferring that
14 perhaps that might be where you're headed, but
15 I'm certainly not ready for that. Because the
16 situation is that we don't have data on these
17 radionuclides, and in the absence of data how
18 do we conclude that --

19 **DR. NETON:** Yeah, Arjun, --

20 **DR. MAKHIJANI (by Telephone):** -- exposure
21 was not relevant when there was fission
22 product exposure at least in certain specific
23 situations.

24 **DR. NETON:** Arjun, I understand what you're
25 saying, and I think we tried to prove or

1 establish the general principle for this
2 analysis, but I do agree that there's always
3 going to be site-specific issues that need to
4 be evaluated like possibly the ones that you
5 just pointed out.

6 In fact, I believe that's the subject
7 of an SEC that's ongoing right now. So we
8 would handle those separately and not hide or
9 bury our head in the sand and ignore those
10 issues. But I think TIB-0052 as it's written
11 does make the case for, there's the general
12 case for the exposures and that we would need
13 to address any site-specific things on a case-
14 by-case basis.

15 **DR. MAKHIJANI (by Telephone):** You know it
16 may be helpful if TIB-0052's revision, you
17 know, as these issues are resolved, would
18 mention the kinds of things that are not
19 covered. Because if you were explicit that
20 these other radionuclides are not covered, and
21 these are the kinds of situations in which
22 they should be covered, that would most help
23 the specific dose reconstruction as well as
24 the SEC reviews, both for your team that's
25 doing it, and then when and if we are asked to

1 review it for the Board.

2 **MR. CHEW (by Telephone):** Yeah, but, Jim, I
3 think I support what you're saying is what
4 Arjun's saying is that in those particular
5 cases it would be more site specific and it
6 would be in the technical basis document
7 talking about that particular site. And in
8 order to put a general document out to cover
9 all of the sites, then that will have a lot
10 more detail for each of the sites and we don't
11 have all the sites covered here.

12 **DR. NETON:** Well, I think some caveats put
13 in the procedure might be in order as Arjun is
14 suggesting and how we word that. I think we
15 need to think about it, but I'm not in
16 disagreement that there couldn't be some
17 caveats provided in that procedure or in that
18 TIB. So I think that's probably where we need
19 to go with this at this point. So I don't
20 know that there's much more to say on that
21 other than we would point out in the TIB that
22 there are some special cases out there that
23 need to be considered.

24 **DR. MAKHIJANI (by Telephone):** And if there
25 is a scarcity of data that, you know, as you

1 were saying, Jim, if the data are not there,
2 then that also may be ought to be pointed out
3 or if they're not readily available other than
4 in individual files that that would be useful
5 to point out. Or if there are certain periods
6 involved where there should be particular
7 attention.

8 **DR. NETON:** Yeah, we need to regroup and
9 think about what language we might want to put
10 in there. But I'm in general agreement with
11 your thoughts, Arjun.

12 **DR. MAKHIJANI (by Telephone):** Thanks, Jim.

13 **MR. MARSCHKE (by Telephone):** Okay, we're in
14 agreement or at least general agreement?

15 **DR. NETON:** It's not closed. We're in
16 agreement that we're going to maybe craft some
17 language to revise the TIB to explain what it
18 really covers and what it might not cover.

19 **MR. MARSCHKE (by Telephone):** Thank you.
20 That sounds good.

21 The next one that was up I guess was
22 the finding number nine. The finding was
23 evaluation of the DOE annual -- oh, this is
24 for INEL, and the evaluation for INEL was
25 based upon the DOE annual exposure report.

1 And our comment was there needs to be
2 addressed the MUD dose database for INEL, and
3 M-U-D stands for I don't know --

4 **DR. NETON:** Master Update Dump, I think, or
5 something.

6 **MR. MARSCHKE (by Telephone):** -- something
7 like that.

8 **MR. CHEW (by Telephone):** That's right.

9 **MR. MARSCHKE (by Telephone):** The NIOSH
10 response was that the annual report equivalent
11 for the overlapping time period. Really, I
12 guess, maybe my comment wasn't, I was really,
13 what I was comparing was Table 3-1. There is
14 a NIOSH report out there. It's not prepared
15 for this project, but it was prepared for --

16 **DR. NETON:** There's an epidemiologic study
17 conducted by our health-related energy
18 research branch at that time.

19 **MR. CHEW (by Telephone):** The cancer risk
20 epidemiology study.

21 **DR. NETON:** Right.

22 **MR. MARSCHKE (by Telephone):** And they had a
23 Table 3-1 in there that listed all the doses
24 for all the years from -- I'm trying to pull
25 it up here.

1 **DR. NETON:** Yeah, I've got it here. It's
2 '79 through '98 is what it overlapped.

3 **MR. MARSCHKE (by Telephone):** Right, and
4 that's what I kind of, in the response there,
5 we kind of show that if you look at the OTIB-
6 0052 doses, the millirems and the number of
7 individuals, and you compare them to this
8 Table 3-1, you get quite different numbers.
9 And I just found, I just was wondering if
10 there's any way we could reconcile those
11 numbers or should we try and reconcile those
12 numbers.

13 **DR. NETON:** Yeah, we've gone back and looked
14 at that. I pulled out that original epi
15 report, and one thing that stood out -- and
16 Mel and his crew noticed this right off the
17 bat -- was that the units of the dose in that
18 table are millisieverts, not millirem. So
19 they're off by a factor of a hundred.

20 **MR. MARSCHKE (by Telephone):** Oh, okay.
21 That makes a difference.

22 **MR. HINNEFELD:** They claim they were
23 millirem. They were millisieverts.

24 **DR. NETON:** Right, right.

25 **MR. HINNEFELD:** And so you're off by a

1 factor of 10.

2 **DR. NETON:** A factor of 10. When you re-do
3 the table, the ratios --

4 **MR. MARSCHKE (by Telephone):** Go the other
5 way.

6 **DR. NETON:** -- they go very much under one,
7 so that reconciles that issue.

8 The other thing though that still
9 concerned me a little bit though was that the
10 total number of monitored workers were a
11 little bit different by year. And in going
12 back and reviewing that report, they actually
13 included all workers at the INEL site which
14 included the workers at the naval reactor
15 facilities which are not covered under this
16 program.

17 So that at least would explain some of
18 the difference if not all of the difference in
19 the number of monitored workers that were
20 included in their study versus what we've
21 looked at. So it's a slightly different
22 population of workers I guess is what I'm
23 saying. So it's not directly comparable to
24 what we've put together for our analysis.

25 **MR. MARSCHKE (by Telephone):** I think you've

1 also answered the next one also, Jim. Because
2 again, the finding 10 was talking about the
3 similar comparing again to the --

4 **DR. NETON:** Right, and we have this written
5 up, but obviously we didn't get it out in time
6 for you folks to review it, so I guess maybe
7 we should just write this up.

8 **MR. MARSCHKE (by Telephone):** Arjun, do you
9 have anything to say on those two? But those
10 two sound like they're really, there was an
11 explanation and if I got the units right,
12 there wouldn't have been too much problem in
13 the first place, but Jim's explanation seems
14 good to me.

15 **MR. CHEW (by Telephone):** Steve, that's very
16 understandable when we all went to SI units
17 and rems and sieverts here, we all got
18 confused, too. It was difficult to keep
19 straight, but it was pretty obvious when we
20 looked at the NIOSH 2005, we can understand
21 that that mistake was easy to make.

22 **DR. MAKHIJANI (by Telephone):** Yeah, I'll go
23 with your judgment, Steve.

24 **MR. MARSCHKE (by Telephone):** The other
25 one's number 11 is the fourth one that is open

1 or that we wanted to keep in progress and that
2 also has to do with this IS 2005 epidemiologic
3 study. And well known and documented --

4 **MR. CHEW (by Telephone):** Are you going to
5 read your finding, which one you're on?

6 **MR. MARSCHKE (by Telephone):** Claimant
7 favorability of OTIB-0052 approach for INEL,
8 early period, internal dose to 1965 cannot be
9 determined. And then basically NIOSH's
10 response is internal exposures is well known
11 and documented. And then I had basically in
12 my follow up, OTIB-0052's section 514 states
13 data for internal exposures for worker at INEL
14 is not available. Also, NIOSH 2005 states
15 until about 1965 construction and service
16 workers had relatively higher percentages of
17 internal dose than non-construction, non-
18 service workers.

19 Both these statements lead us, SC&A,
20 to believe that the INEL pre-1965 internal
21 dose is not well known or documented. So I
22 guess basically what we were doing is taking
23 exception to your response saying that it is
24 well known and documented when in '52 you say
25 it's not available.

1 **DR. NETON:** Mel, I'll let you handle that.

2 **MR. CHEW (by Telephone):** Yeah, we --

3 **MR. MORRIS (by Telephone):** Can I make a
4 comment?

5 **MR. CHEW (by Telephone):** Yeah, Bob, go
6 ahead.

7 **MR. MORRIS (by Telephone):** It is well
8 known. The internal exposures are documented.
9 It's just not documented electronically so we
10 couldn't analyze them as readily available
11 data.

12 **MS. MUNN:** Excuse me, Bob. You're coming
13 through very softly. And I don't know whether
14 any of you out there are using speaker phones
15 or not. But if you're not, please try not to
16 use your speaker phone when you're
17 communicating with us because we're getting
18 multiple levels of voice strength here, and we
19 do want to hear what you say. So please get
20 on your handset when you actually want to
21 talk. Thanks.

22 **MR. MORRIS (by Telephone):** What I was
23 saying is that the INEL data are available and
24 documented but not electronically available.
25 So that was the beginning position in our,

1 that we weren't clear about, but we should
2 have been in the response.

3 And then beyond that OTIB-0052 made no
4 attempt to demonstrate claimant favorability
5 for that period of time. We acknowledged that
6 we didn't have the data to present a case for
7 INEL because of the electronic formatting
8 problem. Then if you wanted to go through and
9 look at what NIOSH 2005 did beyond the fact
10 that it included naval reactor facility people
11 that were not covered, it also grouped
12 construction trades workers and service
13 workers together.

14 And OTIB-0052 didn't do that. Service
15 workers were not necessarily defined as
16 construction trades workers. If you look in
17 OTIB or NIOSH 2005, Table 2-7, service workers
18 included radiological service workers, and
19 there were 2,423 of those. So we think that
20 just including that kind of service worker,
21 radiological service worker, in with
22 construction trades workers would have biased
23 the kind of information that you could gather
24 out of the data as presented in NIOSH 2005.

25 **DR. MAKHIJANI (by Telephone):** How do we

1 handle the construction workers for INEL in
2 that period, given the situation?

3 **MR. MORRIS (by Telephone):** They're handled
4 just as any other sites' construction workers
5 would be. They're taken to be represented by
6 a population of all monitored workers.

7 **DR. MAKHIJANI (by Telephone):** But you don't
8 have the electronic database so you cannot do
9 any comparisons or find how you're going to
10 deal with the unmonitored construction workers
11 or what factors you're going to use in that
12 period.

13 **DR. NETON:** Well, I think, Arjun, this sort
14 of gets into this conceptual issue of what
15 TIB-0052 is and isn't. We, Mel, set out to
16 look at the general issue, which is are
17 construction workers different than all
18 monitored workers. And he went out and pulled
19 as much data as was possible at all the sites,
20 well, the sites that we felt were going to be,
21 data were available and were somewhat
22 representative of the different types of
23 operations and activities that occurred within
24 the complex.

25 And to the extent that was possible,

1 that was what was included in TIB-0052. INEL
2 just didn't happen to have usable internal
3 data. But given all the data we have at the
4 other sites though it's generally indicative
5 to us that the exposures were not, internal
6 exposures, were not that different at the
7 sites that we were able to find data for. So
8 that's kind of where we're at with that.

9 **MR. MARSCHKE (by Telephone):** I think what I
10 would like to see is the statement was saying
11 that in '52 where the statement is saying
12 internal doses for workers at INEL is not
13 available. I'd like to augment that statement
14 or replace it by what Bob just said about, you
15 know, it wasn't available electronically, but
16 we have no reason to believe that it was, you
17 know, you can't use the same procedure that's
18 being developed should you have a claimant who
19 was a construction worker at INEL during that
20 period of time.

21 I think that's what NIOSH's intent is,
22 there's basically we have these general rules
23 that are going to apply and the base worker or
24 the coworker model will give you a dose at
25 INEL, and then you're going to increase that

1 by -- well, I guess you're not going to for
2 internal doses you don't increase it. The
3 multiplication factor is one for internal
4 doses. So basically what you're going to end
5 up doing is using the coworker model to
6 calculate the internal doses at INEL.

7 **MR. CHEW (by Telephone):** Steve, let me just
8 add one more thing. When developing of OTIB-
9 0052 it obviously the question that you
10 brought up it begs the question. Since we
11 would not be able to have enough bioassay data
12 in an electronic form that we can use to make
13 a comparison, we'd really, we went and asked
14 and looked into some previous documentation
15 about construction workers and especially
16 internal doses to them.

17 This is really a quote from John
18 Haran* and Braun* that we actually cited in
19 OTIB-0052, and they made a statement. I
20 recognize it as to the statement is that the
21 internal doses especially to construction
22 workers historically been a very minor
23 contributor to the effective dose. Now, I
24 recognize there's no values pointed out to it,
25 but it basically gives us a confidence that

1 TIB-0052 in looking at all the sites that the
2 construction worker there at INEL was most
3 likely and probably no different than any else
4 that we looked at. And so I think that's
5 where we are.

6 **MR. MARSCHKE (by Telephone):** I think
7 statements along those lines would go, they
8 seem to be missing from OTIB-0052, and I think
9 statements along those lines would be, would,
10 you know, for us people who are trying to
11 critique OTIB-0052, they would be very helpful
12 if they were there. I realize that OTIB-0052
13 is primarily intended for the dose
14 reconstructors, and they don't really need all
15 that philosophy and background information.
16 But for us who are trying to critique it, it
17 is very enlightening, you know, these
18 statements that you've given us now.

19 **MR. CHEW (by Telephone):** Especially
20 remember OTIB-0052 is primarily the focus on
21 are unmonitored workers that should be
22 evaluated as compared and so that's the real
23 focus here, and you're right. I think we can
24 do that.

25 Jim?

1 **DR. NETON:** Yeah, I think we got the path
2 forward here what to put in there.

3 **MR. MORRIS (by Telephone):** Yeah, in fact
4 that statement is exactly in OTIB-0052 right
5 now, Steve.

6 **DR. NETON:** That's in there but I think
7 there's some other things that we talked
8 about, especially what you brought up, Bob,
9 that would also help substantiate that.

10 **DR. MAKHIJANI (by Telephone):** This is
11 Arjun. I still have a concern about how do we
12 make this kind of statement for 19, for the
13 period for which we don't have an electronic
14 database about the relative situation that
15 INEL compared to the other sites? Because I
16 know it was a pretty unique site in the early
17 period. They built so many, and operated so
18 many reactors.

19 And they were not production reactors
20 like Savannah River Site and Hanford. They
21 were more like, I don't know, Santa Susana.
22 They were experimental reactors, you know, it
23 was even much different from that. They had
24 very unique reactors. They had naval reactors
25 so it seems, I don't know what the technical -

1 - I'm uncomfortable about the technical basis
2 of that statement.

3 **MR. CHEW (by Telephone):** Arjun, I think
4 you're familiar with INEL, the way it's laid
5 out. It's a big site, and each of the
6 locations where the things that you're talking
7 about, you know, the EBR-1, EBR-2, the chem
8 plant, they were basically fenced off and
9 cordoned off. And if people came in who were
10 potentially exposed, they were monitored as
11 they went in. That was a discussion that we
12 had with the people who worked at the site.

13 As you all know it's a big site and
14 the majority of the construction worker was
15 working at the site to construct the site
16 itself, the roads and all those things that
17 and they were probably the most likely
18 unmonitored. But the likelihood of the having
19 unmonitored construction worker entering those
20 areas that you're talking about we just didn't
21 have any evidence with discussions that showed
22 that was going to be an issue here.

23 **DR. MAKHIJANI (by Telephone):** But there
24 were no construction workers within these
25 areas when we know they were all monitored --

1 **MR. CHEW (by Telephone):** Yes, there were --

2 **DR. MAKHIJANI (by Telephone):** -- for
3 internal dose. The question is about internal
4 dose.

5 **MR. CHEW (by Telephone):** Right. I
6 understand.

7 **DR. MAKHIJANI (by Telephone):** And, you
8 know, even at places like NTS in the period
9 we're talking about internal dose coverage
10 tended to be incomplete. And that's the
11 source of my discomfort is that internal dose
12 coverage was generally or often incomplete,
13 and then you run a site that's very different
14 than the other sites in many respects and then
15 we're making a comparative statement. And
16 that really does make me uncomfortable.

17 **DR. NETON:** Well, I think let us take a
18 crack at beefing up that language and putting
19 in what we talked about and see if we can get
20 closer on this.

21 **DR. MAKHIJANI (by Telephone):** Okay.

22 **DR. NETON:** Hang on one second, Arjun,
23 we're...

24 **MR. CHEW (by Telephone):** Jim, I think the
25 way -- there's a little dead spot here, but

1 you say that we will look at it and see how we
2 can add more to the language.

3 **DR. NETON:** I just looked at some e-mail
4 traffic that's been coming through late
5 breaking, and it appears that there may
6 actually be some electronic information
7 available that we could do some comparisons.

8 **DR. MAKHIJANI (by Telephone):** Okay, that
9 would be very useful.

10 **DR. NETON:** We'll try to use whatever we
11 have and beef this language up, and to the
12 extent possible, look at the electronic
13 information and see where we end up. And
14 we'll prepare a more formal response for you
15 guys to review.

16 **DR. ZIEMER:** The question, Jim or Mel, this
17 is Ziemer. When you say that you don't have
18 electronic data, does that imply that there's
19 some data available in a different form that
20 you'd be able to look at that just is not in
21 an electronic database or what?

22 **MR. CHEW (by Telephone):** Bob, I think the
23 answer is yes. The other day when there was,
24 I had a discussion with Liz Brackett from
25 Internal Dosimetry, she said that there were

1 internal information as regard to INEL, but
2 it's not in electronic form. Am I saying this
3 correctly?

4 **DR. NETON:** But it appears, Mel, now that
5 there may be some electronic information. We
6 probably should not discuss it much more than
7 that other than to say we're going to go back
8 and re-look at that issue.

9 One thing that comes to mind though is
10 I think in some respects, I don't know how we
11 capture this. We need to look at this in the
12 context of how we are reconstructing doses for
13 sites where the data are sparse. Typically,
14 as you know, the sparser the data, typically,
15 the more claimant favorable we get because we
16 just can't, you know, we're trying to bound
17 things rather than get an accurate number.

18 And to some extent I think we need to
19 look at that when we're doing these
20 construction worker sites. If we really have
21 a very claimant favorable upper bound applied
22 to all site workers then in my mind to a large
23 extent that would envelope what the
24 construction workers could also possibly have
25 received. So we have to look at it in the

1 context on a site-by-site basis almost.

2 **MR. MARSCHKE (by Telephone):** I agree, Jim.
3 I mean, basically, the OTIB-0052 methodology
4 relies heavily on the coworker, the way you
5 calculate the coworker dose which is done on a
6 site-by-site basis. And so if the coworker
7 dose is really the 95 percentile or whatever,
8 it's going to be pretty conservative for the
9 construction worker, the external more so than
10 the internal because you're going to be
11 multiplying the external by an additional
12 factor of 1.4. So I agree. You can't really
13 take OTIB-0052 in a vacuum.

14 **DR. NETON:** Right. Okay, I think we know
15 what we need to do on this particular finding.

16 **MR. MARSCHKE (by Telephone):** The other
17 finding, finding 13, was basically the
18 construction worker dose need to be compared
19 consistently to either the all monitored
20 workers or the non-construction workers. In
21 some sites you've compared the construction
22 workers with all monitored workers. On other
23 sites you've compared them only to the non-
24 construction workers.

25 Depending on which you select, it

1 could have an effect on your overall ratio,
2 your 1.4; 1.4 could either go up or down
3 slightly. I don't think it's going to be a
4 major effect. It's more I guess of an
5 analytical nit maybe.

6 But it's just from an analyst's point
7 of view, I would like to, it's just a little
8 bit of inconsistency here, and it is going to
9 drive the ratio for a given, when you roll all
10 the sites together and come up with a combined
11 ratio, it is going to kind of influence that
12 somewhat. It would be good if it could all be
13 done on the same basis. And again, finding
14 number 14 is also a similar type analysis. In
15 some cases the missing dose is rolled in
16 before you do the ratio. In other cases, the
17 missing dose is not rolled in.

18 And again, that's going to affect,
19 when you roll in the missing dose, it's going
20 to have the effect of driving down the ratio.
21 And then some cases those sites that don't
22 have the missing dose are going to have a
23 higher ratio than those sites that include the
24 missing dose. I don't know how you want to --

25 **DR. NETON:** Yeah.

1 **MR. POTTER (by Telephone):** This is Gene
2 Potter from Mel's team. I've got a comment on
3 that. Part of the reason some of those
4 inconsistencies exist was because we were
5 comparing two existing coworker studies. And
6 therefore, when a coworker study that we were
7 comparing to included missed dose, we included
8 missed dose in our comparison to keep things
9 on an even keel. It doesn't address the issue
10 why inconsistency between sites, but we tried
11 to be consistent with the sites so when we
12 were comparing construction to non-
13 construction or all monitored just basically
14 has a lot to do with what was available to us.

15 **MR. MARSCHKE (by Telephone):** And I think
16 that's okay, but I think what you need to do
17 is -- now, again, this is one of the things
18 which I think again from a reviewer's point of
19 view this would be nice if this was pointed
20 out and maybe, you know, something to the
21 effect of saying that this has a small impact,
22 a ten percent impact, a 20 percent impact,
23 whatever it is, on the overall ratio and it's
24 really not going to drive the results one way
25 or the other.

1 I realize that it probably has the
2 user of OTIB-0052 probably doesn't need to
3 know this information or need to know the
4 story behind this, but again, the reviewer of
5 OTIB-0052 it would be nice if we had the story
6 and also some idea of the magnitude of what
7 the, if they had been done, what the magnitude
8 of the impact would be.

9 **MS. MUNN:** Well, and even from an archival
10 point of view it's helpful to have that kind
11 of detail as long as it can be incorporated.

12 **DR. NETON:** I hear what you're saying. I
13 think we can try to incorporate some language
14 to that effect.

15 **MR. CHEW (by Telephone):** I think we all
16 recognize the difference is probably not as
17 significant and important as long as they, the
18 comparison within the site is consistent and
19 comparable, which was the case here. But I
20 understand where you're going.

21 We did take the available data and
22 clearly making sure that we sort out that we
23 did try to identify clearly the construction
24 workers within those particular sites and
25 compared to many of the coworker studies that

1 were done for the all monitored one. I think
2 you'll see that the probably it's going to
3 drive down the factor or anything, but I can
4 understand that the language that you want to
5 will clarify that.

6 Is that where we are, Jim?

7 **DR. NETON:** Yep.

8 I think you're right, Steve, that
9 takes care of number 14 as well.

10 **MR. MARSCHKE (by Telephone):** Yeah. And
11 those are the six that we, I had basically
12 still as in progress. And I guess right now
13 the second and third one of those, nine and
14 ten, I think we're ready to basically change
15 our recommendation to have those closed. And
16 the first and the last three I guess if I
17 understood what NIOSH was saying is that those
18 are really now going to be changed to in
19 abeyance. We've kind of agreed on a path
20 forward and NIOSH is going to work it.

21 **DR. NETON:** I believe so. That's my
22 feeling.

23 **MR. MORRIS (by Telephone):** This is Bob.
24 With regard to that finding number 16 where
25 you recommend transfer to another work group,

1 I think that that's really not necessary. I
2 think that we've shown that there's claimant
3 favorability with OTIB-0052 and we also know
4 that OTIB-0020 already contains the direction
5 on the judgment process that you had asked for
6 additional consideration to be given to. So I
7 don't really see there's merit in moving this
8 one to another venue to us again when we
9 pretty much have information to close it right
10 now.

11 **MS. MUNN:** What group did we recommend? I
12 don't have the page in front of me.

13 **DR. NETON:** OTIB-0020.

14 **MR. MARSCHKE (by Telephone):** This is the
15 question that there are certain construction
16 trades which kind of tend to have higher doses
17 than the construction trade as a whole, for
18 example, pipe fitters comes to mind. And --

19 **MR. CHEW (by Telephone):** I think, Steve, if
20 you remember we actually had quite a
21 discussion on that the last time we met in
22 August of last year, and we were able to break
23 down especially with Savannah River different
24 trades here. And I was able to show a graph
25 of pipe fitters as even compared to the other

1 trades and compared to the construction
2 worker. And there was about two years that we
3 identified that the pipe fitters were slightly
4 higher than, that stood out.

5 And remember that we discussed it that
6 we even went back to the detail, a level of
7 detail, and looked at what happened on those
8 particular years and what caused that. And we
9 had a discussion, and I don't want to go back
10 and revisit that, but we had looked into the
11 exposures of these pipe fitters in the canyons
12 because they were doing certain activities to
13 refurbish the canyons.

14 But I think clearly working within
15 those particular area, those people were
16 monitored, and the likelihood of an
17 unmonitored construction worker actually going
18 into those canyons and working as pipe fitters
19 was just really highly unlikely because they
20 were not only monitored, but they were
21 probably cleared to some level for clearance
22 wise.

23 So I can remember we had that
24 discussion at length. There was probably,
25 that was a very good ability for the Savannah

1 River data to able to break out quite a few of
2 the different trades here, electricians, pipe
3 fitter, millwrights and carpenters and et
4 cetera. And you're absolutely correct. There
5 was a couple years there that the pipe fitters
6 did sit out, but we had that discussion I
7 think.

8 **MR. MARSCHKE (by Telephone):** I remember our
9 discussion, but again -- and if Arjun wants to
10 chime in at any point -- I don't know whether
11 your specific examples for Savannah River can
12 be generalized across the DOE complex for
13 other sites where pipe fitters, and again, we
14 have these, and in any kind of distribution
15 you're going to have some of the trade workers
16 which are going to be on the high end of the
17 distribution and some of them obviously will
18 be on the low end.

19 And using the average construction
20 trade worker for these guys who are on the
21 high end of the distribution, generally, from
22 an OTIB-0052 point of view, it would be
23 claimant favorable. But from an individual
24 claimant's point of view it may not be
25 favorable. So, I mean, I have this, in my

1 mind claimant favorability has got two
2 distinct prongs on it.

3 There's the, you know, what you do for
4 a general methodology such as OTIB-0052, you
5 tend to use a percentages, you know, 90
6 percent, 95 percent, something like that. And
7 that ensures an overall general claimant
8 favorability. But then when you come into a
9 claimant's case, how do you make sure that
10 what the analysis you do for him or her is
11 claimant favorable for that particular
12 claimant? That's something that really cannot
13 be addressed in my mind in a general procedure
14 such as OTIB-0052.

15 **DR. MAKHIJANI (by Telephone):** But, Steve,
16 what we're talking about here, there's a third
17 distinction which -- hello, am I coming
18 through?

19 **MR. MORRIS (by Telephone):** Yes.

20 **MR. MARSCHKE (by Telephone):** We can hear
21 you, Arjun.

22 **DR. MAKHIJANI (by Telephone):** There's a
23 third distinction which is when you take the
24 95 -- When you're dealing with all
25 construction workers together, then certain

1 groups of workers who were highly exposed may
2 not be adequately covered. And that's what
3 showed up with the pipe fitters. And, yes, we
4 have discussed it, but I don't know that we've
5 resolved it.

6 **MR. MORRIS (by Telephone):** This is Bob.
7 Let me quote some stuff that Steve presented
8 last August 29th. It's in the transcript that
9 you guys could see if you wanted to go into
10 it. But Steve just -- I'm skipping between
11 paragraphs, but I don't think I actually
12 perturbed what the meaning of what you said
13 when I got my quotes out like this.

14 You took some sample cases and
15 validated them so that you applied the OTIB-
16 0052 methodology to construction workers and
17 compared those results to the actual
18 monitoring data. And when you did that, you
19 found that OTIB-0052 was conservative. And
20 you then said it wasn't a random test.

21 We tried to bias our individuals from
22 those occupations that received higher doses
23 like pipe fitters, and even in those cases we
24 found that OTIB-0052 methodology generally was
25 conservative, and you concluded by saying,

1 overall, we're happy with it.

2 Now you add that to the existing
3 information that's in OTIB-0020 that contains
4 direction on the judgment process that a dose
5 reconstructor must use when applying process,
6 when applying the 50th or 95th percentile
7 values, and I think we got this one wrapped
8 up.

9 **MR. MARSCHKE (by Telephone):** On the other
10 hand what if you remember also, I don't know
11 if I said it back in August, but I think we
12 did 60 of those samples, and I think we did 20
13 -- if my memory serves me correct, we did 20
14 at each of three sites. And we did have a
15 handful, and I can't, I'm not sure if I
16 mentioned it last August or I don't know how
17 many, but we did have a handful of ones that
18 did fail.

19 **DR. MAKHIJANI (by Telephone):** And you're
20 right, and that is covered in the report. The
21 reason to cull it out is we made statements,
22 you know, generally about OTIB-0052, and then
23 we also made statements about the exceptional
24 areas. And rather than rely on a transcript,
25 I think I'd rather rely on our report where

1 these things are detailed quite specifically.

2 **DR. NETON:** Let me chime in here. It seems
3 to me that the recommendation here would not
4 be that hard for us to implement. I mean, the
5 way I read this it basically says that we
6 would put a statement in TIB-0020 alerting
7 people that there may be certain classes of
8 workers who could have higher exposures that
9 we need to consider. And that's all it really
10 says here.

11 **MR. MARSCHKE (by Telephone):** That's all
12 we're looking for.

13 **DR. NETON:** To me it does not seem to be
14 unreasonable.

15 **DR. MAKHIJANI (by Telephone):** No, and we've
16 got these couple of examples, and if you could
17 give the examples, that would be helpful.

18 **DR. NETON:** But I want to be clear though.
19 I'm not saying that we're going to make a
20 special class of pipe fitters, but if we are
21 doing a pipe fitter, we might want to consider
22 what those exposures may be in relation to the
23 norm or something like that. And I don't have
24 a problem with that.

25 **MR. CHEW (by Telephone):** Jim, are you

1 recommending that we put that in -0052 or go
2 to -0020?

3 **DR. NETON:** This would go into -0020. I
4 don't have a particular problem with putting
5 some additional guidance language in there to
6 make sure that something doesn't fall through
7 the cracks is really what this is trying to
8 accomplish.

9 **MR. MARSCHKE (by Telephone):** That's all.

10 **DR. NETON:** Okay, I'm okay with that.

11 **MS. MUNN:** Anything else on OTIB-0052?

12 (no response)

13 **MS. MUNN:** Everybody happy for the moment?

14 **DR. NETON:** For now.

15 **MR. HINNEFELD:** As the, now, SC&A just
16 recommended that nine and ten they thought
17 should be closed. So weren't we going to
18 close those?

19 **MS. MUNN:** Yes, there's no reason to leave
20 them open, is there?

21 **MR. HINNEFELD:** Okay, so then SC&A keeps up
22 those datasets can change those statuses to
23 closed then.

24 **MR. MARSCHKE (by Telephone):** Could you, the
25 discussion that, I guess, Jim and Mel gave on

1 nine and ten, could we add that to the
2 database?

3 **MR. HINNEFELD:** Yes, yes.

4 **MR. MARSCHKE (by Telephone):** And basically,
5 you know...

6 **MR. HINNEFELD:** Well, we can do, I mean,
7 we'll put the write up that you guys did into
8 the database, or ORAU can do that.

9 **DR. ZIEMER:** The discussion.

10 **MR. HINNEFELD:** Oh, you can't? Well, we'd
11 have to have them do it, what we wanted to put
12 in.

13 **DR. NETON:** Well, I think what we might want
14 to do here is just write up everything we've
15 talked about here, provide it to SC&A, let
16 them look at it, and close them all out at one
17 time.

18 **MR. HINNEFELD:** Well, I would like to get
19 those two closed. If we can get them closed,
20 I want to get them closed.

21 **DR. NETON:** Okay, that's fine.

22 **MR. HINNEFELD:** I would like to provide
23 those two write ups. I'm afraid, Steve, I'm
24 afraid you guys will have to put it in the
25 database right now. I don't think we can do

1 that yet. But you guys can put in what we
2 tell you to put in --

3 **MR. MARSCHKE (by Telephone):** You can tell
4 me what you, yeah. I was trying to take notes
5 a little bit, and I guess --

6 **MR. HINNEFELD:** It's our obligation to give
7 you that.

8 **MR. MARSCHKE (by Telephone):** We'll do that,
9 okay.

10 **MR. HINNEFELD:** But we want you to write
11 into, it'll be one of our response blocks
12 which should be the next open block in the
13 database. And then there's probably a work
14 group recommendation or direction block if I
15 recall.

16 **MS. MUNN:** I think so.

17 **MR. MARSCHKE (by Telephone):** That's right.

18 **MR. HINNEFELD:** Would the work group then
19 agree that that direction would be that this
20 finding would be closed? Or just something to
21 that effect?

22 **DR. ZIEMER:** I'm okay with that.

23 **MS. MUNN:** Mike?

24 (no response)

25 **MS. MUNN:** Mike, are you there?

1 **MR. GIBSON (by Telephone):** I'm here. Yeah,
2 I'd just like to read it over once it's done.

3 **MR. HINNEFELD:** That can all be provided to
4 the working group members and to SC&A what we
5 propose the NIOSH response to be, and we could
6 even put in, it would be like a one-line
7 statement on what we would think the Board's
8 or the working group's direction was.

9 **MS. MUNN:** Correct.

10 **MR. HINNEFELD:** So we could put that in and
11 share it with the working group and SC&A. And
12 then if the working group agrees that it
13 reflects what we talked about today, then they
14 can tell SC&A, okay, you agree and that status
15 can be changed to closed.

16 **MS. MUNN:** Very good. If you would, in
17 fact, get that to us, then we'll do that. Get
18 that one out of the way.

19 **MR. ELLIOTT:** Somebody has put us on hold.

20 **MS. MUNN:** I guess somebody has put us on
21 hold. We need to remind people not to do
22 that. But in any case are we at a point where
23 we can take a break?

24 **DR. MAKHIJANI (by Telephone):** Ms. Munn,
25 this is Arjun. Are we going to have any

1 further discussion on Procedure-0090?

2 **MS. MUNN:** Yes, we haven't discussed PROC-
3 0090 at all.

4 **DR. MAKHIJANI (by Telephone):** When is that
5 going to be? I have a, I'd like to rejoin
6 this discussion at that time.

7 **MS. MUNN:** Well, I had expected 90 to be a
8 fairly extensive discussion so perhaps if we
9 said we would take that up immediately after
10 lunch, would that suit you?

11 **DR. MAKHIJANI (by Telephone):** Yeah, that'd
12 be fine.

13 **MS. MUNN:** All right, we'll try to address
14 that at probably 1:15 this afternoon.

15 **DR. MAKHIJANI (by Telephone):** Thank you
16 very much.

17 **MR. CHEW (by Telephone):** Wanda, this is
18 Mel. So the OTIB-0052 team can be excused
19 here?

20 **MS. MUNN:** As far as I can tell the OTIB-
21 0052 team can go do something else?

22 **MR. HINNEFELD:** Yeah, I think Jim's leaving,
23 too. He stepped away from the table for a
24 minute, but I believe he is pretty much done
25 as well.

1 **MR. CHEW (by Telephone):** Good, Stu.

2 **MS. MUNN:** Thank you all. We really
3 appreciate it. We'll look forward to the work
4 group receiving e-mails from progresses from
5 SC&A and NIOSH moving forward on this one.

6 We're going to go on mute for 20
7 minutes. We'll be back at, by my clock, at 20
8 minutes after 11.

9 (Whereupon, a break was taken from 11:00
10 a.m. until 11:20 a.m.)

11 **MR. KATZ:** We're coming back on. This is
12 the Procedures work group of the Advisory
13 Board on Radiation Worker Health. We just had
14 a break. And I'd just like to remind the
15 participants on the phone even though I think
16 we have very few members of the public, if
17 any, when you, if you need to go on hold,
18 please, unless it's very, very brief, please
19 just break the line and rejoin.

20 Otherwise, we hear the beeping or
21 whatever noise it might be. And if there is
22 anyone else on the line, just listening,
23 please just put your phone on mute, which if
24 you don't actually have a mute button, you can
25 just use star six. Thank you very much on

1 that.

2 **MS. MUNN:** Can we check to see if Mike is
3 back? Are you back, Mike?

4 **MR. GIBSON (by Telephone):** Yeah, I'm here,
5 Wanda.

6 **MS. MUNN:** Very good.

7 Has Mark joined us yet?

8 **MR. GRIFFON (by Telephone):** Yeah, Wanda, I
9 did.

10 **MS. MUNN:** Well, good.

11 **MR. GRIFFON (by Telephone):** I sat through
12 the whole break.

13 **MS. MUNN:** I'm sorry about that.

14 **MR. GRIFFON (by Telephone):** That's all
15 right. I'm just glad to hear voices.

16 **MS. MUNN:** For your information we've jumped
17 around a bit on the agenda. We covered the
18 review of the database, the first item that
19 was listed. We covered the resolution of
20 discrepancies, the second item that was
21 listed. We covered OTIB-0052 at considerable
22 length. We've taken our break.

23 **APPENDIX BB**

24 Now it's our hope to talk about
25 Appendix BB, the Landauer response and where

1 we're going to go with this particular item
2 until the new work group is convened. And
3 then we'll talk a little bit about the status.
4 Hopefully, Steve can give us a, or someone
5 from SC&A will give us a report on the status
6 of OTIB-0070 before we break for lunch. We
7 had agreed that our first item after lunch at
8 about 1:15 will be PROC-0090.

9 That fit your schedule all right?

10 **MR. GRIFFON (by Telephone):** Yeah, thank
11 you, Wanda; thanks for the update.

12 **MS. MUNN:** All right, Stu, want to talk
13 about Landauer and where, generate some
14 discussion about where we think we're going
15 with --

16 **MR. HINNEFELD:** Yes, at the last Procedures
17 work group meeting I was asked to see if I
18 could find out from Landauer what calibration
19 source they used for their film badges. They
20 provided dosimetry service for General Steel,
21 GSI, for some years, a couple of the covered
22 years and then additional years extended
23 beyond that. And we have all the readings
24 that they have from those from their service
25 there. They provided those to us upon our

1 request.

2 And we're actually, our main task here
3 is to analyze that dataset to determine if it
4 confirms or contradicts the models that are
5 proposed for the external exposure. So that's
6 the main thing. And really the big thing that
7 has to happen next is we need to provide some
8 additional responses based on our analysis of
9 that dataset. That's really the next big
10 thing that has to happen.

11 At the last work group meeting though
12 there was discussion about film badge and
13 energy dependence of film badge and what were
14 these calibrated to, what were these badges
15 calibrated to as I was asked to find out if I
16 could from Landauer what source they used.
17 And I found out actually really quickly after
18 I asked. Craig Yetter* answered my e-mail
19 pretty quickly and I think I forwarded that e-
20 mail to the working group members, and I think
21 to SC&A as well.

22 Craig responded they used a Cesium-137
23 source, and they, to his knowledge, they
24 didn't have any record of receiving
25 information from GSI about the expected photon

1 spectrum that would be encountered at GSI, and
2 so they didn't make any adjustments to their
3 cesium calibration. And then they reported
4 their results, their dosimetry results, and
5 then Craig added, and I don't know what
6 adjustment we would make if they had told us
7 which I think probably speaks to the kind of
8 the health physics, I guess the conclusion
9 that film is sensitive to radiation.

10 And it's radiation at photon levels
11 below maybe what, 100 KeV or 200 KeV,
12 something in that order. But when you get
13 above the energy range for occupational
14 purposes, the film response is relatively
15 flat. So you don't normally worry about
16 energy adjustments or energy adjustments to
17 your calibration curve at higher energy
18 photons. So that was the nature of it. So
19 that was the exchange we had there.

20 Now, I don't know that most of us, I
21 don't know if there's exposure potential for
22 25 MeV photons which I believe there's
23 postulated to be a couple of scenarios, you
24 know, almost direct beam exposure. And to be
25 completely honest, when you're talking about

1 occupational physics, you don't normally think
2 about 25 MeV photons. I'd have to go do some
3 research, which I've not done yet, to really
4 see if film remains flat in its response to
5 energy up through 25 MeV. So that's pretty
6 far above what you normally see in an
7 occupational exposure spectrum, energy wise.
8 So that's where we are.

9 **MS. MUNN:** Have any comments from SC&A?

10 **MR. MARSCHKE (by Telephone):** No.

11 **MR. HINNEFELD:** Sorry I didn't speak longer
12 about that, Wanda, I just --

13 **MR. MARSCHKE (by Telephone):** We did receive
14 Stu's e-mail, and you did not send it to Dr.
15 Anigstein, so I have to forward it to Doctor,
16 I don't know if John forwarded it to Dr.
17 Anigstein or not.

18 **MR. HINNEFELD:** I forgot. I think I sent it
19 to you and John and the work group members,
20 but I don't know that -- whatever I sent to
21 you that's what I sent to, so if Bob's not on
22 there, I didn't.

23 **MR. MARSCHKE (by Telephone):** I don't know
24 if Bob has seen this actually or not. I'm
25 just now looking at it because I really wasn't

1 involved in BB, but I'm not sure that Bob has
2 gotten this. So I'll forward this to Bob and
3 see how he wants to use it.

4 **MS. MUNN:** Now, that's good. We've always
5 sort of worked on the premise that anything
6 that got to John would be distributed to the
7 appropriate members of the SC&A --

8 **MR. MARSCHKE (by Telephone):** That's what I
9 was working on, too, Wanda.

10 **MS. MUNN:** So we here just assume that if
11 John gets it, it goes to the appropriate
12 people.

13 **MR. MARSCHKE (by Telephone):** And that could
14 very well be true. I mean, I don't know who
15 John has sent it to. He very well might have
16 sent it to Bob. I'll just forward this to
17 Bob, and then Bob can have two copies of it.

18 **MS. MUNN:** That's good. But it sounds to me
19 as though we still will be looking forward to
20 another report from NIOSH with respect to some
21 additional research on the 25 MeV.

22 **MR. HINNEFELD:** Well, yeah, I think that can
23 be part and parcel of what our response is,
24 our evaluation of the dataset. You know, we
25 would want to speak to would the film badge

1 data be representative, would it record
2 accurately the photons that the people were
3 exposed to.

4 Now, we did find -- Dave Allen, who I
5 don't believe is on the phone, I didn't ask
6 him to sit in, I didn't really expect to talk
7 very much about this -- he did show me fairly
8 recently some information that may be relevant
9 to whether to model some of the inverted
10 Betatron issue. Do you remember the issue
11 with the Betatron is that at some point the
12 operators, the Betatron operators, have been
13 pretty consistent in this point.

14 At some point they were instructed to
15 invert the Betatron thereby overcoming its
16 built-in swing volume so that items could be
17 irradiated on the railway car. Because as it
18 was normally configured, the Betatron would
19 only shoot at the closed in wall of the
20 labyrinth, so the rail came in sort of on the
21 side of that. And if they would invert the
22 Betatron 180 degrees downward and around, they
23 could overcome those lug switches and could
24 aim at an item on the rail car and could
25 irradiate in that fashion.

1 And from the sketch of the building it
2 appears that that would give you something of
3 a 90 degree which would be the 90 degree
4 linkage off the head of the Betatron, a 90
5 degree shot at some largely unshielded areas
6 or at least only partially shielded that are
7 occupiable in the adjacent building. Dave did
8 find recently that, and also the operators who
9 talked about inverting the Betatron all said
10 that when this one particular person was the
11 supervisor of the Betatron, he never had them
12 do that.

13 And I don't remember that person's
14 name. He was in the outreach meetings. They
15 all said [Identifying Information Redacted]
16 never told us to do that. It was only when he
17 left and he was replaced by this other person
18 who came from somewhere else that he
19 instructed us to invert it and shoot at the
20 rail cars. Well, when we looked at the
21 employment histories for [Identifying
22 Information Redacted], the one who had never
23 told them to do that, his last day of
24 employment was the last day of the contract to
25 do the irradiations of the AEC work.

1 So it would seem from that that if
2 once he left was when they inverted it, that
3 that inverted position would not have been
4 utilized during the covered period but only
5 during the residual period when the photon
6 dose from the Betatron isn't included.
7 Because during the residual period you only
8 reconstruct the residual of the AEC work if
9 it's distinguishable. Clearly, the uranium
10 contamination on the floor, the dose from that
11 is pretty distinguishable from the dose from
12 the Betatron.

13 So now that's sort of preliminary and
14 it was just a matching up of dates that they
15 just happened onto, I mean, just kind of
16 stumbled onto by accident as he was working on
17 our additional response. So it may reflect
18 the scenarios that we have to address outside
19 of the Betatron operators in terms of
20 potential exposure to leakage from the
21 Betatron head.

22 **MR. ELLIOTT:** As Dave's analyzing the
23 Landauer data, are we not looking at some of
24 the other comments that have been given by the
25 Betatron operators such as they worked a lot

1 of overtime and the badges were only worn
2 during a portion of their work?

3 **MR. HINNEFELD:** Well, what they would say is
4 they wore their badge when they worked as an
5 operator. I think what they said was when
6 they worked as an operator, they wore their
7 badge. But if they did a double shift, and
8 their second shift may have been in the
9 adjacent building, and is not in an operator's
10 job, they wouldn't wear their badges. It was
11 stored in the rack. So that's part of the
12 situation.

13 But they didn't say they didn't wear
14 it on overtime. If they spent ten hours on
15 the Betatron, but they said they sometimes
16 would work a double or something like that,
17 not as a Betatron operator, and in those
18 instances they didn't wear a badge.

19 **MS. MUNN:** This is a very limited pool of
20 claimants, the operators, correct?

21 **MR. HINNEFELD:** Oh, well, it's limited. It
22 depends on what do you mean by very. I think
23 we may have over ten claimants who are
24 operators. I don't really know.

25 **MR. ELLIOTT:** If you just talk operators,

1 yes, that's probably the ballpark.

2 **MR. HINNEFELD:** I'm not a hundred percent
3 sure. It seems like there've been about ten
4 of them that have spoken at the outreach
5 meetings. I don't really know how many
6 operators there were that are claimants that
7 never spoke up at the outreach meetings.

8 **MS. MUNN:** Yes, Paul.

9 **DR. ZIEMER:** Couple points, just a reminder
10 that for a 25 MeV, this is a 25 MeV electron
11 accelerator, I believe.

12 **MR. HINNEFELD:** Right.

13 **DR. ZIEMER:** And I think the photons are a
14 Bremsstrahlung distribution which means that
15 the average energy is more like 8 MeV, the
16 number of photons at 25 is close to zero.

17 **MR. HINNEFELD:** Correct.

18 **DR. ZIEMER:** And it's sort of a lognormal
19 distribution, so in looking at the point at
20 which you look at the energy dependence of the
21 film badges, your focus should be down around
22 8-to-10 MeV which is where most of the X-rays
23 lie.

24 **MR. HINNEFELD:** Thanks for that. You told
25 me that once before.

1 **DR. ZIEMER:** The other thing -- it was more
2 for the record, whatever works -- the other
3 thing is that unless a person was in the
4 direct beam, and I think that there was an
5 orientation where they were saying that there
6 could be direct beam down on the track. But
7 otherwise they were talking about scattered
8 radiation is number one is a small percent of
9 the direct beam. Plus the energies are
10 degraded considerably in the scattered beam as
11 well.

12 **MR. HINNEFELD:** I think the aspect about the
13 orientation, the reason why the inverted
14 orientation is relatively important is in that
15 orientation it appears that the leakage from
16 the Betatron, and the Betatron doesn't appear
17 to be all that heavily shielded, so there
18 could be some 90 degree leakage out of the
19 Betatron head which may, in fact, be the
20 Bremsstrahlung spectrum from that occurs in
21 the head, degraded however it is by whatever
22 shielding you have on the side.

23 And that may, in fact, have presented
24 a somewhat unshielded, I mean, this is in the
25 SC&A report, a somewhat unshielded beam of

1 that?

2 **DR. ZIEMER:** Well, unless my recollection's
3 different than yours, we did that on the last
4 day of the meeting. Maybe Nancy can help me
5 remember, but I think we got the volunteers,
6 and in the absence of a volunteer to serve as
7 chair, I ended up volunteering to serve as
8 chair. So I think we're in place. I think
9 you volunteered.

10 **MS. ADAMS:** Yes.

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

12 Maybe --

13 **MR. GRIFFON (by Telephone):** Yeah, Mark, I
14 was on that, Paul.

15 **DR. ZIEMER:** Yeah, I was thinking you
16 volunteered, so there was at least three of us
17 from this group.

18 **MR. GRIFFON (by Telephone):** I thought John
19 Poston also.

20 **DR. ZIEMER:** And John Poston and then there
21 was an alternate, and I'm trying to remember
22 who it was, but the other work group has --

23 **MS. ADAMS:** Josie.

24 **DR. ZIEMER:** Josie, yes. It was Josie. And
25 so we do have the other work group now ready

1 to go, and it would just be a matter of
2 establishing the first meeting. But I think
3 we're ready to hand off those responsibilities
4 to the other work group for this particular
5 item.

6 **MS. MUNN:** Good, so it's just a question of
7 convening the new work group --

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

9 **MS. MUNN:** -- more than anything else.

10 **DR. ZIEMER:** There's three of us here if you
11 want to stay over.

12 **MS. MUNN:** Well, maybe not this time. But
13 do you have any thoughts about when --

14 **DR. ZIEMER:** Well, I think we need to get
15 underway fairly soon. I don't know if we can
16 meet before our August phone meeting. That
17 would be probably pushing it, at least for me
18 with some other responsibilities, but --

19 **MS. MUNN:** I guess my real question is
20 should we meet before the September meeting.

21 **DR. ZIEMER:** I think if the group, if the
22 others are available, I think we should. One
23 of the reasons for passing this off is there's
24 some level of political pressure to move
25 forward on this particular item. So I don't

1 think we should delay it. We need to be able
2 to focus on it. We have a lot of information
3 already, and I think we can move forward on
4 it.

5 **MS. MUNN:** Do you agree, Mark?

6 **MR. GRIFFON (by Telephone):** Yeah, yeah, I
7 think we should meet before California for
8 sure.

9 **MS. MUNN:** All right, we'll just anticipate
10 some inquiry about our availability in the
11 immediately foreseeable future.

12 **MS. ADAMS:** And Zaida needs to schedule all
13 kind of travel well in advance of the end of
14 the month. In fact, I think it needs to be
15 done by the 5th of August for --

16 **DR. ZIEMER:** For August.

17 **MS. ADAMS:** For August through the end of
18 September.

19 **MS. MUNN:** I have no feel -- are you
20 anticipating a face-to-face meeting, Paul?

21 **DR. ZIEMER:** Yes.

22 **MS. MUNN:** Here?

23 **DR. ZIEMER:** Probably here.

24 **MS. MUNN:** Do we want to even think about
25 discussing a potential date at this time or

1 would you rather postpone that?

2 **DR. ZIEMER:** Well, I think I'll have to do
3 it by e-mail because we have some missing
4 people who aren't on this call, namely Poston
5 --

6 And who was the alternate?

7 **MR. KATZ:** Josie.

8 **DR. ZIEMER:** So there's two other people we
9 need to be able to touch base with.

10 **MS. MUNN:** All right, we'll look forward to
11 hearing from you.

12 **MR. MARSCHKE (by Telephone):** Wanda, this is
13 Steve. I just wanted to question about
14 presently we have the 13 Appendix BB issues in
15 the database. Now that there's a separate
16 work group for Appendix BB and the other TBDs,
17 do we want to maintain these in the Procedures
18 database or do we want to remove them or
19 transfer them or make them go away or keep
20 them in there and let the other work group use
21 it to track them or what?

22 **MS. MUNN:** My thought would be that we would
23 have to set up, that we would show them in
24 our, in this group's database as transferred,
25 and that we would have to establish a separate

1 folder, database as it were, for the 6000,
2 6001 work group. It seems to me that trying
3 to maintain them in the Procedures work group
4 would be confusing. A part of my intent in
5 requesting that a different work group be
6 formed is to get this particular set of issues
7 out of our Procedures tracking.

8 **DR. ZIEMER:** Let me add a thought. It would
9 be a database that would look identical to
10 this one, but it would have a different title
11 on it, and every other parameter would look
12 identically the same, Steve. What do you
13 think about that?

14 **MR. MARSCHKE (by Telephone):** Well, I think
15 that's a good idea, yes, but obviously NIOSH
16 is now going to be responsible for making that
17 happen with the SQL.

18 **DR. ZIEMER:** Well, rather than be the
19 Procedures Review Database, it would be the --

20 **MR. HINNEFELD:** Document Review and
21 Tracking. It's called the Document Review and
22 Tracking or Document Comment and Tracking
23 Application. So it'll be part of that, and I
24 think that would be a sort of a sub-grouping
25 of that application that would come up.

1 **DR. ZIEMER:** It would work the same it would
2 seem to me.

3 **MR. HINNEFELD:** I believe it would, yes.

4 **MS. MUNN:** Is that?

5 **MR. MARSCHKE (by Telephone):** Yeah, thank
6 you.

7 **OTIB-0070**

8 **MS. MUNN:** Now, Steve, are you the person
9 who is going to do the status review on OTIB-
10 0070 for us?

11 **MR. MARSCHKE (by Telephone):** Well, OTIB-
12 0070, the status is very simple, Wanda.
13 Really it's been assigned to Dr. Anigstein,
14 and he really is just starting up on it, but
15 we anticipate getting a draft report out by
16 the end of August if that's okay with the work
17 group.

18 **MS. MUNN:** The end of August.

19 **MR. MARSCHKE (by Telephone):** Yes, a draft.

20 **MS. MUNN:** So that we would have an
21 opportunity to take a look at it before our
22 next face-to-face meeting. Very good. I'll
23 give it an end of August date, and it will
24 appear on our next agenda with either you or
25 the author expected to give us a run down.

1 I'm assuming the end of August gives
2 us only less than a week before our meeting so
3 that we may or may not be able to do much with
4 it at our next face-to-face meeting. But in
5 any case if we have it in hand and have an
6 opportunity to look at it, that will be most
7 helpful. Thank you.

8 Now comes a dilemma for the chair
9 because we are just 15 minutes away from lunch
10 time and everything that I see on our
11 remaining agenda I anticipate to be fairly
12 time consuming unless someone sees something
13 that they know we can cover quickly in a brief
14 period of time. Any thoughts either here or
15 out there in telephone land?

16 **MR. HINNEFELD:** I was curious about the open
17 items from the first set of reviews. I
18 believe that's only PROC-0090 that are
19 actually open. Isn't that true, talking about
20 status open?

21 **MS. MUNN:** Is that correct, Nancy?

22 **MR. MARSCHKE (by Telephone):** I agree,
23 that's correct.

24 **MR. HINNEFELD:** Now, there may be some other
25 status codes we need to sort through like in

1 abeyance and find out the status of those
2 things are in progress. There may be some
3 other status codes, but the things really not
4 closed yet. But if you're talking about
5 strictly open, the items that we marked as
6 open which would indicate there's been no
7 discussion, those, I think all but only ones
8 in the first group of PROC-0090 findings.

9 **MS. MUNN:** Well, we'll just, if that's
10 correct, if someone will verify for us that
11 is, in fact, correct --

12 **MR. MARSCHKE (by Telephone):** Yes, this is
13 Steve. Yes, I have the same information that
14 there are 29 open items which are the PROC-
15 0090 items --

16 **MS. MUNN:** And that's the only thing we have
17 from set one.

18 **MR. MARSCHKE (by Telephone):** -- and there's
19 48 that are in abeyance which indicate that
20 we've come to a meeting of minds. It just
21 hasn't been implemented.

22 **MS. MUNN:** Well, hopefully we can get some,
23 at least brief report on those abeyance items
24 as well.

25 **MR. HINNEFELD:** Well, I can give it a try.

1 **MS. MUNN:** Okay, let's do that after lunch
2 then, and we'll just --

3 Yes, Paul?

4 **DR. ZIEMER:** I have a comment on the first
5 set that has to do with the report to the
6 Secretary. Would this be an appropriate time
7 to make it?

8 **MS. MUNN:** This would be an excellent time
9 to make it.

10 **DR. ZIEMER:** Over the weekend I sent to
11 Christine Branche the official signed document
12 of our report to the Secretary on the first
13 set review. Appended to that was Steve's SC&A
14 executive summary, I forget, I think it was
15 just called a summary report. So that has
16 gone in. I want to point out though that the
17 copy of the summary -- and Steve is aware of
18 this -- that I sent in, I made the changes on
19 the dates on the pages of the SC&A report so
20 that they corresponded to his cover page.

21 But, Steve, I'm wondering as far as
22 your deliverables if SC&A may want to actually
23 generate the corrected copy.

24 **MR. MARSCHKE (by Telephone):** We can do
25 that.

1 **DR. ZIEMER:** I'm just thinking in terms of
2 does a copy of your thing go to David Staudt,
3 for example? Was that a deliverable?

4 (no response)

5 **DR. ZIEMER:** Because what I -- who knows,
6 maybe John Mauro would be able to answer.

7 **MS. MUNN:** That's a good question for John.

8 **DR. ZIEMER:** John's not on the phone.

9 But, Steve, do you know if that's a
10 deliverable?

11 **MR. MARSCHKE (by Telephone):** I don't think,
12 it has not gone. I don't think it has gone.
13 Let's put it that way. I know the way it was
14 transmitted to you all was via e-mail from me
15 to Paul and Wanda so it did not go through
16 official channels.

17 **MR. ELLIOTT:** Be that as it may, whether
18 it's a deliverable or not, for the record if
19 there's any appeal point here, we would need a
20 document that serves as the final version that
21 is corrected.

22 **MR. MARSCHKE (by Telephone):** No, I have no
23 problems in sending a --

24 **DR. ZIEMER:** If you send it out with a cover
25 letter as your final, you know, I made the

1 change in the footnotes so that we had a copy
2 for the Secretary that at least looked right.
3 But after I did that I didn't feel quite
4 comfortable with me making the change in
5 SC&A's report, even though it was a change in
6 the date.

7 **MS. MUNN:** Just changed the date at the
8 bottom of the page.

9 **DR. ZIEMER:** I don't think we ever got from
10 SC&A a report where the cover date and the
11 page date coincided, and I wasn't sure whether
12 you had sent one to David Staudt actually, so
13 that was part of the question. But it seems
14 to me that has to happen. I would point out
15 that it still is considered a draft report and
16 the one that went to the Secretary still has
17 the disclaimer that says it's not yet been
18 approved.

19 **MR. ELLIOTT:** That's why I'm saying we need
20 a document that shows it to be a final --

21 **DR. ZIEMER:** The reason it's not final is we
22 haven't closed out these items. And the
23 report that went to the Secretary recognized
24 that. It says basically we've closed out at
25 the time of the report approximately half of

1 the items, and we gave the nature of the kind
2 of findings so it was more like a status
3 report.

4 So I think it's okay from that
5 perspective, but it's not yet the final
6 report, but it is a version of the report
7 where the dates didn't coincide, and it's the
8 version that we sent to the Secretary. So I
9 think I'd be more comfortable if we had that
10 as official transmission from the contractor.

11 **MS. MUNN:** It might be a good idea to do
12 that. If you'd asked John to do that, it
13 would be helpful.

14 **MR. MARSCHKE (by Telephone):** We can do
15 that, yes.

16 **MS. MUNN:** Thank you.

17 **MR. MARSCHKE (by Telephone):** Any problem
18 that when John sends it through the official
19 channels it's going to have a date on it which
20 is going to be after Paul's letter to the
21 Secretary?

22 **DR. ZIEMER:** It's not going to have your
23 date on it?

24 **MR. MARSCHKE (by Telephone):** Well, the
25 report will have my date on it, the April 8th

1 date on it. But the transmittal letter will
2 be dated sometime probably this week.

3 **MS. MUNN:** I can't see that that's a
4 problem.

5 **DR. ZIEMER:** I don't think that it'll be a
6 problem because by the time it is transmitted
7 to the Secretary, well, I don't know.

8 **MS. MUNN:** Well, and there's also the fact
9 that the question was asked whether it was a
10 deliverable. I would personally have to go
11 back and check our transcripts to recall for
12 certain the discussion on that. But I don't
13 believe that we ever identified it as a
14 deliverable per se. I think it was offered by
15 SC&A as a reasonable status report that we had
16 never given the Secretary and the Secretary
17 might like to have. But that it was part and
18 parcel of activities with this --

19 **DR. ZIEMER:** In a sense though it was tasked
20 by the work group.

21 **MS. MUNN:** Yes, it was, and we agreed that
22 it would be a good thing to do. It would be
23 wise to check.

24 **MR. KATZ:** Wanda, is it labeled an interim
25 report or a status report?

1 **MS. MUNN:** Status report.

2 **MR. KATZ:** So it's not really a draft status
3 report. It's a status report.

4 **MS. MUNN:** It's a status report.

5 **DR. ZIEMER:** Here it is. See, that has
6 April 8th on this.

7 **MR. KATZ:** That's working draft written on
8 the top, but the working draft you wouldn't
9 keep, right?

10 **MS. MUNN:** All right, I'll take a look at
11 the transcript to see if I can identify any
12 clarifying language of whether or not it was
13 identified as a deliverable.

14 Any other comments on the status
15 report?

16 (no response)

17 **MS. MUNN:** My thanks to Paul for getting
18 those dates corrected and getting that letter
19 out to the Secretary at long last. And my
20 apologies to all concerned for not getting
21 that done in a more timely manner. We'll try
22 to do better the next time we have a status
23 report.

24 Any other pressing items we need to
25 look at before we go to lunch?

1 (no response)

2 **MS. MUNN:** If not, we're going to break
3 until one o'clock, and we'll be back on the
4 phone no later than 1:15. Everyone have a
5 nice lunch, we'll see you in a little over an
6 hour.

7 (Whereupon, a lunch break was taken from
8 11:55 a.m. until 1:05 p.m.)

9 **MR. KATZ:** This is the Advisory Board on
10 Radiation Worker Health Procedures work group,
11 and we're getting started again after lunch.
12 And let me just remind everyone on the phone
13 please keep your phones on mute except when
14 you're participating. And if you need to take
15 a break, please hang up and dial back in
16 instead of putting the call on hold which is
17 disruptive for the call. Thank you very much.

18 **MS. MUNN:** May we verify who's on line
19 outside of this room?

20 **MR. GRIFFON (by Telephone):** Yeah, Wanda,
21 I'm back on, Mark Griffon.

22 **MS. MUNN:** Thank you, Mark.

23 Mike, are you there?

24 (no response)

25 **MS. MUNN:** No Mike yet.

1 Other individuals on the line?

2 Steve, are you there?

3 **MR. MARSCHKE (by Telephone):** I'm here,
4 Wanda.

5 **MS. MUNN:** Good. Anyone else from SC&A on
6 line?

7 (no response)

8 **MS. MUNN:** Anyone else from OCAS or ORAU?

9 **MR. SHATTO (by Telephone):** Yes, this is
10 David Shatto.

11 **MS. MUNN:** David, thank you.

12 We intend to take a look briefly later
13 in the afternoon at all of the open items just
14 to see where we are with them and to try to
15 get a feel from you, Steve, or others in SC&A
16 where we are with the sets beyond one and two.
17 As I indicated, it's our expectation that
18 we'll start with PROC-0090. Since I told
19 Arjun that we'd do that at 1:15, I'd like to
20 wait for just a few minutes before we actually
21 undertake that because I know he's interested
22 in several of those items.

23 Is everyone who is involved in PROC-
24 0090 up to speed at where we are with those
25 outstanding items? I trust everyone either

1 has copies of the information that Steve sent
2 out or is on line with the data you need. If
3 you do not have that data, please let us know
4 so we can try to get it to you before we start
5 our discussion.

6 Before we actually start that, are any
7 of the principals that are with us aware of
8 pressing items in the outstanding material
9 that we have which we need to think of again
10 in terms of priority? We have in the past
11 taken that approach when we have items that
12 are for some reason extremely current or
13 holding up reviews of petitions of one sort or
14 another.

15 We've had other discussions relative
16 to the fact that if we don't address these in
17 a very programmed manner, we end up with the
18 situation we have in our first set with the
19 material having been in our hands for a couple
20 of years and still having open items which is
21 not desirable I think from anyone's point of
22 view. We don't want to do that if we can keep
23 from it.

24 But by the same token I hope our
25 exercise this afternoon with respect to PROC-

1 0090 gives us a feel for whether or not we
2 can, in effect, just start one item at a time
3 and move through these in a manner that will
4 make it possible or be feasible for us to
5 close items out in a more timely fashion.

6 Does everyone who is concerned with
7 PROC-0090 have the material that they need for
8 us to discuss it?

9 (no response)

10 **MS. MUNN:** If so, we're going to wait for,
11 by my clock, exactly four minutes to see if
12 Arjun will join us. While we're doing that we
13 might be taking a look at our calendar to see,
14 we had a brief discussion earlier about when
15 this group would have its next face-to-face
16 meeting, and there was requests that we not do
17 that early on Tuesday before we, Tuesday,
18 September the 2nd, prior to our other
19 activities.

20 But it is possible for us to convene
21 this group at the end of the agenda for the
22 full Board meeting which would be the
23 afternoon of Thursday, September 4th. Does
24 that seem to be a reasonable thing to aim for
25 or is that contrary to the needs of some of

1 the members of the group? Any feedback on
2 that?

3 **MR. KATZ:** What time does the Board meeting
4 --

5 **MS. MUNN:** We don't have the final agenda.
6 Normally, the Board meeting is finished in
7 early afternoon. So a three-hour meeting of
8 this group would normally be quite feasible.
9 I'm assuming that this means most of the
10 members involved who are on the east coast are
11 not going to be wanting to leave the southern
12 California area at three or four o'clock in
13 the afternoon.

14 **MR. HINNEFELD:** You can't really get out so
15 you may as well stay over the next morning
16 anyway.

17 **MS. MUNN:** So that being the case, even if
18 the meeting was until four o'clock there, the
19 concept of having an abbreviated face-to-face
20 would not be unreasonable.

21 **MR. HINNEFELD:** Not as far as I'm concerned,
22 I mean, from a NIOSH standpoint.

23 **MS. MUNN:** If no one has any real grief with
24 that, let's tentatively plan on doing that,
25 working on the assumption that it won't be a

1 full day's work, but we will --

2 **MS. HOMOKI-TITUS:** The drafts I've seen
3 don't have it going through the afternoon.
4 The drafts that I've seen of the agenda don't
5 have it going through the afternoon.

6 **MR. KATZ:** Okay, we'll confirm by e-mail.

7 **MS. MUNN:** Yes, we will, and we'll establish
8 a time based primarily on what happens with
9 the full Board schedule. But we'll plan on an
10 afternoon meeting there. My guess would be
11 about three hours. If circumstances permit,
12 we may stretch that to four, but I don't think
13 it's going to go any longer than that.

14 Dr. Makhijani, have you joined us yet?

15 (no response)

16 **PROC-0090**

17 **MS. MUNN:** Since Arjun is not with us yet,
18 and we're within three minutes of the time I
19 specified for him that we would be talking
20 about taking up PROC-0090, I think we'll go
21 ahead and begin it.

22 Steve, are you going to lead this or,
23 Stu, are you going to do it?

24 **MR. HINNEFELD:** Well, I can give a little
25 discussion about what's happened since the

1 last Board meeting and refresh everybody's
2 memory about our last working group meeting.

3 **MS. MUNN:** Is there a possibility that we
4 could do this one item at a time? Steve's
5 been good enough to provide us with individual
6 pages for each of the outstanding items, and
7 we had discussed the possibility of doing it
8 this way. Is it too --

9 **MR. HINNEFELD:** No, that's kind of what I
10 expected to do.

11 **MS. MUNN:** Okay, it's all yours.

12 **MR. HINNEFELD:** Well, at the last working
13 group meeting I described that it's sometimes
14 difficult from the statement of the finding
15 that was in originally on the matrix and is
16 now on the database, it was a little difficult
17 to decide what part of the original review
18 report pertained to the statement of finding
19 as it appears in the database.

20 And a part of that I think was due to
21 the fact that the page numbers that are
22 referenced in the finding description didn't
23 necessarily refer to anything very meaningful
24 in the overall review document. You know, it
25 would refer, sometimes it didn't refer to

1 anything except the checklist which usually
2 just gives fairly cursory information on the
3 review checklist. And sometimes it referred
4 to pages that seemed to be speaking about
5 something other than what that finding was.

6 So I commented to that at the last
7 working group meeting, and then in the interim
8 Arjun and I have exchanged a couple e-mails
9 to, where I kind of specified a little bit
10 more the areas of difficulty that we were
11 having, you know, which ones I had particular
12 trouble finding out, you know, trying to
13 really deduce the true meaning of the
14 procedure. And then Arjun responded by
15 pointing out in the review itself, the main
16 review document, what pages really each
17 finding related to. So we did go through the
18 process of sorting out, getting a better
19 understanding of the meaning of the findings.

20 So having done that then Arjun also
21 responded with a series of responses after my
22 questions about the items, and he gave either
23 a more full description of the finding, a
24 better reference of where to find it in the
25 report, or in some cases he even suggested

1 that these could be closed. I think that
2 relates mainly to the first four where the
3 finding really spoke to the absence of a
4 procedure for the close out interview at the
5 time this review was done. And that procedure
6 for close out interviews has since been issued
7 and has been reviewed in fact by SC&A. I
8 think it had its own report.

9 **MS. MUNN:** Yeah, I think it did.

10 **MR. HINNEFELD:** There's a part where it says
11 it has its own report. So Arjun's initial --
12 I think, now Steve, you can correct me if I
13 mischaracterize this -- but he originally said
14 that he felt like the first four findings, 90-
15 dash-one through four, could probably be
16 closed. Of course, we don't close them unless
17 the work group says to close them, could
18 probably close, or actually, I think what he
19 actually said was these should be transferred
20 to the review of Procedure 92, which is the
21 close out interview procedure because they
22 speak to items of concern related to the close
23 out interview.

24 So I think that would serve to
25 disposition the first four if the work group

1 would go along with that. And Steve has
2 provided to us a PDF of the detail sheets from
3 the Procedures database that describes the
4 interactions and the discussion.

5 **MR. MARSCHKE (by Telephone):** One note
6 difference, a small difference, Stu, is as I
7 read what Arjun wrote, the first four he says
8 should be closed.

9 **MR. HINNEFELD:** Okay.

10 **MR. MARSCHKE (by Telephone):** The next one,
11 which I guess is issue number six, that's the
12 one he's talking about transferring to PROC-
13 0092.

14 **MR. HINNEFELD:** Okay, thanks, Steve, you're
15 right. You're right.

16 So if you wanted to read through the
17 statement of the findings in what Steve sent
18 out, it describes the, kind of what was felt
19 to be an information void with respect to what
20 the claimant could expect when they did this
21 CATI interview, the initial interview, and had
22 they had better information or things of that
23 extent, it would, they felt like this would
24 have gone away or they felt like, most of
25 these felt, I guess, addressed the fact that

1 there really should be some more discussion of
2 the fact that this claimant will have another
3 opportunity to provide input into the process
4 once a dose reconstruction has been drafted,
5 and they've seen what we did with the
6 information we had, they have another
7 opportunity really then to say, hey, you left
8 stuff out, things like this. And so they kind
9 of spoke to that. And so the existence now in
10 a close out interview procedure in Arjun's
11 mind allayed these original four findings.

12 **MS. MUNN:** Okay, so the final finding as of
13 this date will be that items one through four
14 are agreed to be closed?

15 **MR. HINNEFELD:** I'm certainly agreeable with
16 that.

17 **MS. MUNN:** And that item number six is
18 transferred to PROC-0092.

19 **MR. HINNEFELD:** Right, that's what Arjun
20 suggested, and I don't have any trouble with
21 any of those.

22 **MS. MUNN:** Any problem with that, Steve?

23 **MR. GRIFFON (by Telephone):** Well, I just
24 have a question, Wanda. I mean, just to go
25 back to what you've actually told me on

1 several occasions.

2 **MS. MUNN:** You're very faint, Mark.

3 **MR. GRIFFON (by Telephone):** I was just
4 going back to a point you've made to me on
5 several occasions that the, you know, I'm
6 pulling up these findings now, but SC&A agrees
7 that these are closed, and NIOSH is in
8 agreement for these first four or whatever.
9 And I think we as a work group are supposed to
10 decide whether the items are opened or closed.
11 Isn't that sort of the way we should deal with
12 this?

13 **MS. MUNN:** Yes, that's why I'm asking if
14 everyone's on board with this.

15 **MR. GRIFFON (by Telephone):** So I just,
16 before you dismiss them, I thought maybe I'm
17 trying to find the right document so maybe I'm
18 a little behind where you guys are at, but --

19 **MR. HINNEFELD:** It's a PDF, Mark, with a
20 title of "PROC-0090 for 7/21 Work Group
21 Meeting," WG meeting.

22 **MS. MUNN:** And as a matter of fact if you're
23 --

24 **MR. GRIFFON (by Telephone):** Do you know
25 when it was mailed out?

1 **DR. ZIEMER:** Just yesterday.

2 **MR. MARSCHKE (by Telephone):** I don't think
3 I sent it to Mark.

4 **MR. GRIFFON (by Telephone):** I don't see
5 anything.

6 **DR. ZIEMER:** I just got mine yesterday.

7 **MS. MUNN:** Maybe not.

8 **MR. GIBSON (by Telephone):** I don't think
9 I've received it either, Wanda.

10 **MS. MUNN:** Okay, hold on just a moment and
11 let me get my e-mail up here. I had thought I
12 had forwarded that to the Board, but perhaps I
13 did not.

14 **DR. ZIEMER:** It went out Sunday. It was
15 addressed to Christine and Stu and Arjun and
16 John Mauro --

17 **DR. MAKHIJANI (by Telephone):** And Arjun has
18 just joined. Sorry I'm late.

19 **MS. MUNN:** Oh, good.

20 **DR. ZIEMER:** And I got a copy that
21 incidentally, Steve, are you on the line?

22 **MR. MARSCHKE (by Telephone):** Yes, I'm here.

23 **DR. ZIEMER:** Change my e-mail, if you would.
24 I think yesterday was the last day you could
25 still use the old one and it forwarded it

1 automatically. But I'm now comcast.net.

2 **MR. MARSCHKE (by Telephone):** Okay.

3 **DR. ZIEMER:** But I don't see Mark's name on
4 this list. I have a note from Steve, and I
5 don't see Mike's on it either.

6 **MR. GRIFFON (by Telephone):** I don't find
7 anything either, especially from Sunday. I'm
8 looking at the dates shown.

9 **MS. ADAMS:** I have the one that Christine
10 sent me. Do you want me to just forward it to
11 Mark and Mike?

12 **DR. ZIEMER:** Is that this one?

13 **MS. ADAMS:** Yeah.

14 **DR. ZIEMER:** Yeah, we can shoot it to you
15 right away, I think.

16 **MR. GRIFFON (by Telephone):** Okay, that'd be
17 great.

18 **DR. ZIEMER:** And Nancy's going to try to
19 forward it from here. Maybe Steve can.

20 **MS. ADAMS:** I sent it.

21 **DR. ZIEMER:** Okay, Nancy just sent it.

22 **MS. MUNN:** Nancy's already sent it. You're
23 one step ahead of me. I finally got to it.

24 **MR. GRIFFON (by Telephone):** So just before
25 we close those off I'd like an opportunity to

1 at least look them over. I know we've got
2 agreement on the behalf of SC&A and NIOSH on
3 this, but --

4 **MS. MUNN:** Arjun, we just had a brief
5 discussion on the first item that Steve had
6 sent to us for our discussion of PROC-0090.

7 **DR. MAKHIJANI (by Telephone):** Right.

8 **MS. MUNN:** And we had, it was our
9 understanding that you had agreed that items
10 one through four could be closed and that item
11 six would be transferred to PROC-0092. And
12 the other members of the Board had agreed that
13 that was acceptable. Mark's just looking at
14 the material right now to verify --

15 **DR. MAKHIJANI (by Telephone):** Thank you,
16 Wanda.

17 Yeah, I did actually suggest that some
18 items should be closed.

19 **MS. MUNN:** Thank you. We'll give Mark a
20 minute to pull that first sheet up.

21 **MR. GRIFFON (by Telephone):** I hope you're
22 not holding up for me. I mean, you can
23 continue --

24 **MS. MUNN:** No, we just, we want you to be --

25 **MR. GRIFFON (by Telephone):** -- okay,

1 because I don't have anything yet in the e-
2 mail. I'm just keeping an eye so --

3 **MS. MUNN:** Okay, very good. We can move on
4 to the next item and then come back to verify
5 after you've had a chance to take a look at it
6 if that's okay with you.

7 **MR. GRIFFON (by Telephone):** That's fine.

8 **MS. MUNN:** Good, then let's go on to the
9 next item, item number -- that takes care of
10 the next one that we were showing was item
11 number two. We've agreed that one is closed.
12 Item number three is closed. Item number four
13 is closed, and item number six has been
14 transferred, correct? So we're on to --

15 **DR. ZIEMER:** We are still looking --

16 **MR. HINNEFELD:** We are still looking. We
17 haven't really agreed on that.

18 **MS. MUNN:** Yes, yes, I know.

19 **DR. MAKHIJANI (by Telephone):** Which list
20 are we, we're not looking at the list that
21 Steve sent around. Which list are we looking
22 at for these one, two, three?

23 **MS. MUNN:** Yes, yes, that's the list I'm
24 looking at. I'm looking --

25 **DR. MAKHIJANI (by Telephone):** Oh, one

1 through four, okay.

2 **MS. MUNN:** Yes, one through four.

3 **DR. MAKHIJANI (by Telephone):** Five.

4 **MS. MUNN:** Five I think was not --

5 **MR. HINNEFELD:** There didn't seem to be a
6 number five in the database.

7 **DR. MAKHIJANI (by Telephone):** No, there's
8 no number five.

9 **MS. MUNN:** It was either closed out or
10 agreed at the first meeting that it wasn't an
11 issue. So number six is being transferred to
12 --

13 **DR. MAKHIJANI (by Telephone):** Yes, okay,
14 I've caught up with you. Sorry about that.

15 **MS. MUNN:** That's quite all right.

16 And so what we're looking at for the
17 moment is item seven.

18 **MR. HINNEFELD:** Item seven speaks to the way
19 coworker interviews are described and/or
20 conducted. For instance, the interviewee
21 claimant is provided a script, you know, of
22 the questions that are going to be asked in
23 advance of the actual interview. And one of
24 the questions in there is are there, can you
25 name some coworkers who could describe your

1 work history, or more to the point if it's a
2 survivor claimant, coworkers who could
3 describe, who would know about the energy
4 employees work history.

5 In case of a survivor claimant, the
6 energy employees would be deceased. And the
7 finding speaks to the fact that oftentimes
8 coworkers are not contacted. There's no
9 particular explanation to the claimant as to
10 why coworkers would be contacted or not.

11 Some claimants probably went to some
12 trouble to try to identify the names of some
13 coworkers and took quite a lot of effort and
14 then with no contact being made to them it
15 felt like this put them through a lot that
16 they needn't go through especially if we
17 weren't going to call. I think these all kind
18 of factor into it.

19 So, Arjun, if I misspeak in some
20 fashion, you be sure to let me know.

21 **DR. MAKHIJANI (by Telephone):** No, the only
22 thing I would add, Stu, to that list -- I
23 don't know if you were done first of all.

24 **MR. HINNEFELD:** Well, go ahead. Would it be
25 helpful more, it would probably be better if

1 you did it than I.

2 **DR. MAKHIJANI (by Telephone):** No, no,
3 that's fine. I was happy with your list. I
4 don't have any disagreement with what you
5 said. The only thing that I would add to that
6 that was in the original 2005 report, and a
7 very important, substantive point is that
8 survivors are at a kind of disadvantage
9 naturally relative to employee claimants
10 because very often due to secrecy
11 classification and so on people didn't talk
12 about their work.

13 They don't know about the employees'
14 work and so on. And so when a coworker is
15 named, it seemed particularly important to
16 talk to them especially in cases that are
17 being denied. So that was kind of the
18 substantive framework of this whole item.

19 **MR. HINNEFELD:** And our response on this has
20 been, I think there's some valid points,
21 certainly some valid points here to be made is
22 that we don't want to put a claimant through a
23 lot of effort to try to identify coworkers if
24 there's not a lot of probability that we would
25 contact that coworker. We tend not to do too

1 many coworker interviews.

2 The reason for that is that the
3 identification of coworker was intended, you
4 know, the intention was contact a coworker
5 when we have insufficient information about
6 the claim we felt like to allow us to proceed.
7 Now, in practice the way things have turned
8 out, we feel like in most cases we have, we
9 find sufficient information about claims
10 without contacting coworkers in large part
11 because when there's uncertainty about where
12 specifically a person was located.

13 We try to make sure that our dose
14 estimate bounds their experience so that a
15 more specific knowledge about the exact
16 location or exact case or even exact
17 description of incidents because we know from
18 our site research at sites where there are
19 incidents and loose radioactive material, my
20 own experience being from Fernald of course,
21 there was plenty of loose radioactive material
22 at Fernald.

23 And so we try to fashion dose
24 reconstruction approaches that address those
25 kinds of conditions regardless of whether a

1 specific individual was in this incident or
2 they were in six blowouts or six mag flashes
3 in plant five or they were there for a
4 particular, actually working during the shift
5 when there was a UF-4 spill. Because as a
6 general rule, those conditions are found
7 during research and then applied to dose
8 reconstructions that are done appropriately if
9 need be.

10 So we do tend not to use coworkers a
11 lot. I think it would be worthwhile for us to
12 refashion some language in some fashion,
13 certainly to speak in the dose reconstruction
14 it would be a relatively straightforward thing
15 to do. The same in dose reconstruction when
16 we describe the information used in the dose
17 reconstruction to just put in a simple
18 statement that coworkers were not contacted
19 because sufficient information was available
20 through other means. Something like that so
21 there would be that level of understanding.
22 So certainly there are some things like that
23 we could make some modification on I think.

24 **MS. MUNN:** Paul.

25 **DR. ZIEMER:** There's one comment I hear from

1 time to time on the terminology, coworker.
2 Frequently, a claimant will be told that their
3 dose reconstruction was done based on coworker
4 data, which is often the case in a general
5 sense. And when they check up and they say,
6 well, I named three coworkers and none of them
7 were contacted so how can this be?

8 And so I think there's a confusion as
9 to what is meant by coworker in the general
10 sense that we talk about coworker models,
11 which is a whole multitude of people, most of
12 which the worker doesn't know or may not know.
13 And those individuals that they name, which
14 are sort of their working colleagues, and I
15 don't think they always appreciate the
16 difference in that.

17 And the terminology I think has led to
18 some confusion. I don't know how to
19 distinguish that or if some wording could
20 somehow help them understand the difference
21 between the general coworker model issue and
22 the specific people they may name who may not
23 have been contacted or who may not even be
24 claimants.

25 **MS. MUNN:** Well, and we also hear comments

1 from the claimants themselves who say nobody
2 can know exactly where I was doing exactly
3 what I was doing at exactly what time. And,
4 of course, that's, there's good basis in fact
5 for that. But it is, that confusion is
6 further exacerbated, I think, by the use of
7 the term coworker.

8 **MR. ELLIOTT:** We're revising entries on our
9 website, the FAQ's, Frequently Asked
10 Questions, and there's a glossary that will
11 include a description of coworker dataset, a
12 distribution of information, as well as we're
13 going to have to come up with some other
14 terminology perhaps on what it means when we
15 say do you have, in the CATI interview
16 process, do you have other workers that you
17 could identify for us that we should talk to.
18 And we should not call those coworkers in that
19 --

20 **DR. ZIEMER:** Yeah, if there were another
21 term that might be helpful.

22 **MR. ELLIOTT:** -- and I don't know. Stu is
23 very, it's a rare event when we find ourselves
24 in a best estimate situation where we feel or
25 ORAU dose reconstructors feel that it is

1 necessary and appropriate to contact those
2 individuals that have been identified in the
3 CATI. It's rare that that is a necessity in
4 order to provide a best estimate. When we do
5 an overestimate or an underestimate of dose,
6 we typically don't go to that extreme of
7 contacting additional individuals.

8 And one of the reasons why I think is
9 it's not necessary for those types of dose
10 reconstructions, but it's also, when we find
11 ourselves going to somebody else to talk about
12 another person's claim, we start, you're
13 automatically across the line on Privacy Act.
14 I mean, you have to be very careful because
15 you don't want to talk about the person's
16 condition, their health condition, et cetera.

17 And if you do make that contact, you
18 try to limit it to, well, we understand that
19 you worked close or side-by-side with so-and-
20 so. What can you tell us about the process?
21 What can you tell us about the day-to-day
22 activities? What can you tell us about the
23 exposure to radioactive material they might
24 have experienced? That's the limit that we
25 try to achieve there.

1 **MR. HINNEFELD:** Yeah, coworker interviews
2 are pretty complicated because a coworker
3 oftentimes is almost afraid of messing up
4 their coworker's claim. What if I say the
5 wrong thing? Will it go against him? And
6 they're not necessarily easy to contact. If
7 the coworker's not a claimant and the claimant
8 doesn't provide current contact information,
9 they're not always easy to contact.

10 So there are a lot of complications
11 with doing coworker interviews, but the real
12 main reason that we do it so rarely is that we
13 believe we have confidence in the dose
14 reconstruction research that we do that we can
15 bound the dose appropriately without the
16 additional effort of the interview.

17 And I know a part of this, and I think
18 this may have occurred in a number of the
19 findings, is the statement that survivor
20 claimants are at a disadvantage in terms of
21 describing the work area. Don't dispute that.

22 And I just don't know that regardless
23 of what we did in this area, we could really
24 overcome that. I don't know that because of
25 the assumptions we make in making sure we try

1 to bound the dose, I don't know that we have
2 to overcome that.

3 **DR. MAKHIJANI (by Telephone):** Well, a
4 couple -- sorry.

5 **MR. GRIFFON (by Telephone):** I was just
6 going to ask two questions to Stu, I guess.
7 One is you said rarely you interview
8 coworkers. Do you have any sense of a number?

9 **MR. HINNEFELD:** I'd hate to --

10 **MR. GRIFFON (by Telephone):** Because I was
11 wondering if you ever interviewed a coworker
12 for the DR process.

13 **MR. HINNEFELD:** There actually have been
14 some interviews. In fact, I recall back in
15 the old days when I used to be a reviewer of
16 dose reconstructions on our site, I insisted
17 on a coworker interview for a particular event
18 that was described. And in that case of the
19 coworkers that were mentioned by the claimant,
20 one didn't remember the claimant. And the
21 other one said, well, I kind of remember him.
22 I guess maybe he worked there, but I don't,
23 this doesn't sound, what he's describing
24 doesn't sound like something I was at.

25 So the one instance that I know of,

1 there have been a few others, but I would say
2 there have not been 50 coworker interviews.
3 There probably haven't been 20 coworker
4 interviews.

5 **MR. GRIFFON (by Telephone):** And the other
6 question is does it still exist on the
7 modified form? Do you ask that question? Do
8 you ask, if you're never going to use it --

9 **MR. HINNEFELD:** Yeah, well, I didn't want to
10 comment about the modified form because I
11 commented at one time that we had modified the
12 CATI form. In fact, we got suggestions for
13 modifying the CATI form. We have never
14 submitted the revisions to OMB so we're still
15 using the original CATI. I got corrected
16 pretty quickly after that meeting.

17 **MR. GRIFFON (by Telephone):** Oh, I thought -
18 -

19 **MR. HINNEFELD:** And that gives us the
20 opportunity to use this discussion, which we
21 were done anyway. I mean, we had taken this
22 discussion from this finding, these PROC-0090
23 findings, in our original suggested edits,
24 actually ORAU was the one who took these and
25 the original suggested edits.

1 And so we haven't ignored these
2 findings, and it gives us the opportunity to
3 go back and say, well, are these really the
4 edits that we can capture this. So we still
5 have the opportunity. It doesn't have to be,
6 our approval to use that form doesn't expire
7 until January.

8 **MR. GRIFFON (by Telephone):** Go ahead,
9 Arjun. I'm sorry.

10 **DR. MAKHIJANI (by Telephone):** No, just a
11 couple of things. You might consider calling
12 them fellow workers or colleagues or --

13 **DR. ZIEMER:** Exactly the term I was thinking
14 of, Arjun. I'm sorry you said it too soon.

15 **MR. HINNEFELD:** Since you said it, we have
16 to choose something else.

17 **DR. ZIEMER:** And another term that
18 distinguishes it from the others would be
19 useful, and then you could point out that we
20 rarely contact fellow workers except in rare
21 occasions or something like that.

22 Sorry for the interruption.

23 **DR. MAKHIJANI (by Telephone):** No, no
24 problem. I think we're thinking along the
25 same lines, and you certainly have the

1 prerogative. But if you are thinking of
2 modifying the CATI form, and it hasn't been
3 submitted yet, it might be made part of the
4 form so the claimants have it.

5 You know, you generally have enough
6 information, you know, when you can finish a
7 dose reconstruction you generally have enough
8 information, and you generally don't contact
9 coworkers but sometimes it could be helpful.
10 So that at the end people get this note that
11 you didn't contact the coworker doesn't seem
12 like it's disrespectful. They've already kind
13 of known that you're very unlikely to do it.

14 Or that if you need a coworker
15 information that you could go back to them and
16 ask them for coworkers. Something like that,
17 I don't know exactly what would be more
18 beneficial in the sense of less frustrating
19 to, because this was a big item of frustration
20 when we actually talked to them.

21 You know, this partly came from
22 Denise, and now she's part of your outfit. So
23 maybe in modifying the CATI form you might
24 consult with Denise as to how it might be
25 done.

1 **MS. MUNN:** We've had many discussions in
2 this group about modifying the CATI form, and
3 I've always had the impression that doing so
4 bordered on an administrative nightmare.

5 **MR. HINNEFELD:** And it requires OMB review.
6 The reason it requires OMB review is it's an
7 instrument to gather information from a large
8 number of citizens. I think if it's like more
9 than nine. So if you design an instrument to
10 gather information from a large number of
11 citizens, you have to have OMB approval for
12 that instrument, and that's what we had.

13 And because it was OMB approved, we
14 knew that it would be relatively difficult to
15 change, meaning we would have to submit a
16 proposed revision to OMB, and they would have
17 to say okay in order to make the revision. We
18 can revise it. It's not that we can't revise
19 it. We just knew it would be difficult.

20 Now we're at the point where now the
21 OMB approval has a sunset date, a certain time
22 span. It expires in January, so we have to
23 reapply if we continue to do interviews. So
24 at this time this is a convenient time to
25 gather these revisions and submit it and have

1 them approve the use of a new form in this
2 context.

3 **MS. MUNN:** So our wrap up of PROC-0090 would
4 be particularly timeful (sic) right now.

5 **MR. HINNEFELD:** Yes. At least these
6 findings.

7 **MR. ELLIOTT:** Yeah, because we can use these
8 review findings to justify, to argue to OMB
9 the necessity of making these changes. If we
10 went forward with our own thoughts and designs
11 about what a new instrument should look like,
12 then we have, you're going to start from whole
13 cloth arguments with OMB. But here we have
14 something that's been evaluated by this body,
15 and we can take that set of review comments
16 and, I hope, be successful in getting a new
17 instrument approved.

18 **MS. MUNN:** How involved was the original
19 approval process with OMB? Of course, we were
20 all just first out of the chute then.

21 **MR. ELLIOTT:** Well, you guys didn't even
22 know about it. I mean, it's not something
23 you're involved in.

24 **MS. MUNN:** I know. I meant you --

25 **MR. ELLIOTT:** -- very involved. In this

1 instance they don't --

2 **MR. KATZ:** Actually, I think I did that
3 work, and it wasn't particularly interactive
4 in this case. OMB didn't come back with a lot
5 of issues in this case. They did come back
6 and consult on several issues, but there
7 wasn't, and there wasn't a lot of public
8 input.

9 But this is really perfect because one
10 of the things OMB wants to know, too, is that
11 experts review the instrument or stakeholders
12 have had a chance to sort of make certain that
13 the instrument is appropriate. And in this
14 case we have really the perfect situation
15 because we have an expert review of just the
16 issue that they would want so it's actually
17 great.

18 **MR. GRIFFON (by Telephone):** I should point
19 out, Ted, that this review wasn't a review of
20 the questionnaire. We've only looked at these
21 procedures, right?

22 Arjun, am I correct in, SC&A never
23 reviewed the questionnaire itself, the content
24 of the questionnaire.

25 **DR. MAKHIJANI (by Telephone):** We did review

1 the CATI form and had a number of comments on
2 it.

3 **MR. HINNEFELD:** There's a section in the
4 report that --

5 **DR. MAKHIJANI (by Telephone):** And they are
6 in the report in terms of what was, you know,
7 what might be beneficial to be in there. But
8 at that time -- now we haven't revisited it in
9 all of our experience in the discussions of DR
10 that we've had. But there are a number of
11 recommendations in there.

12 **MR. GRIFFON (by Telephone):** I do recall
13 that now, but I'm looking at, these are all
14 CATI process not --

15 **MS. MUNN:** Correct. And either the Board or
16 this group, I think the Board as a whole, we
17 went over the CATI, and this has been a
18 tremendous amount of attention.

19 **MR. HINNEFELD:** There's at least one of
20 these findings that says a very good number of
21 recommendations on the CATI form on how the
22 CATI form can be improved. And that is
23 captured as at least one of the findings.

24 **MR. GRIFFON (by Telephone):** Yeah, okay, all
25 right. And I know as a Board we went over it

1 many times, but we were discouraged from going
2 anywhere with it. So anyway, okay.

3 **MS. MUNN:** Now, where were we? We were on
4 number seven.

5 **DR. MAKHIJANI (by Telephone):** Just a
6 second. Just for clarity on that point, is
7 there a suggestion that some of those things
8 might be incorporated so they might be
9 discussed or not relevant at the present time?
10 I didn't understand.

11 **MR. HINNEFELD:** Well, I don't have a
12 discussion with me today, but we can provide
13 that. I mean, when the original comment
14 suggested revisions were made that ORAU put
15 together, this was some time ago that we have
16 not submitted to OMB, they did, in fact, use
17 this report, and they did look at this report
18 as -- now they didn't necessarily adopt all
19 the recommendations of this report. But they
20 did look at this report and made suggested
21 revisions based on the content of the report.

22 **MS. MUNN:** So, Arjun, is the question you
23 were asking whether there is going to be an
24 actual list of suggested revisions
25 forthcoming? Is that your question?

1 **DR. MAKHIJANI (by Telephone):** Yeah. I
2 mean, obviously there have been revisions, and
3 I was just wondering whether the working group
4 is going to look at those revisions in light
5 of the suggestion that had been made in our
6 earlier review or we're going to leave it at
7 that. I just wanted some clarity.

8 **MS. MUNN:** Yeah, actually, I thought --

9 **DR. MAKHIJANI (by Telephone):** -- in terms
10 of our work review.

11 **MS. MUNN:** -- I thought that we had
12 understood that there had been no revisions
13 made. There are no revisions that have been
14 made to the CATI.

15 **DR. MAKHIJANI (by Telephone):** Yeah, but
16 they are being made, and I was wondering
17 before it's submitted to OMB whether we're
18 leaving it as is and saying ORAU/NIOSH have
19 reviewed the work that was done and it's okay,
20 or that the working group is going to consider
21 it or whether you want us to look at it. I
22 just wanted some clarity on the revisions that
23 are being made.

24 **MS. MUNN:** Oh, well, it was my assumption
25 that one of our purposes in going through this

1 PROC-0090 exercise at this time is to identify
2 any outstanding potential suggestions for
3 revision, and that following our review, NIOSH
4 would identify from their records and from
5 their understanding what those suggested
6 changes would be, and that we would all have
7 an opportunity to look at those before they,
8 their formal contact with OMB. Is that not a
9 reasonable way to proceed?

10 **DR. MAKHIJANI (by Telephone):** Yeah, I
11 think, but, you know, this particular item has
12 not been on the table until this moment, at
13 least I wasn't aware that it was on the table.
14 And it would be useful for it to be. I think
15 it would be very useful, but we have not
16 talked about this as an outstanding item
17 before because of the problem of the origin of
18 the form.

19 **MS. MUNN:** Oh, what do you mean we haven't
20 talked about this?

21 **DR. MAKHIJANI (by Telephone):** This being
22 substantive revisions of the questionnaire
23 other than, you know, we've talked about the
24 fellow workers question, but we have not
25 talked about -- I'm struggling to find our

1 January report on my computer here. I don't
2 have it.

3 **MS. MUNN:** Yeah, well, I think we've talked
4 about it often, but as I said have come to the
5 conclusion that there was a great deal more
6 effort involved than would be achieved by the,
7 the success would be achieved by the changes
8 at that time. But we're now talking about a
9 cumulative set of well-discussed, thoroughly-
10 reviewed items which have been accumulated and
11 will, in my view, be brought to us in a
12 succinct form, much easier for us to review
13 than these multiple pages from the procedure.

14 **DR. MAKHIJANI (by Telephone):** Okay, yes, I
15 think that sounds fine to me.

16 **MS. MUNN:** Is that reasonable?

17 **DR. MAKHIJANI (by Telephone):** Yes, it does
18 sound fine to me.

19 **MR. ELLIOTT:** I don't know what's being
20 asked here. I mean, we certainly have --

21 **DR. ZIEMER:** Is this item seven?

22 **MS. MUNN:** No, we're talking about the
23 entire issue, of the overall issue, of change
24 to the CATI form. And we know that NIOSH has
25 received comments from various sources, and

1 we're making more as we go through this PROC-
2 0090 process. I was hopeful that when we
3 finish PROC-0090, we would have some very
4 specific items that would be suggested.

5 But certainly it's not clear in my
6 mind how extensive those are, whether or not
7 they're generally required or would be
8 helpful. After we had finished PROC-0090,
9 this work group can do one of two things.
10 They can either step out of the entire issue,
11 or we can continue to follow up and see what
12 NIOSH's suggestion of proposed changes might
13 be.

14 Larry, am I way off base here?

15 **MR. ELLIOTT:** I don't believe you're off
16 base at all. I think that is what I
17 understand our process to have been on many
18 other procedures and other items where we have
19 received, as you have received, a review and
20 comments about a given procedure or
21 methodology. And I'm okay with that. I guess
22 where I was confused I wasn't sure if you were
23 asking, or Arjun was asking to be -- or I
24 think I heard Mark ask this at the Board
25 meeting -- an opportunity to review the OMB

1 submittal.

2 That causes me some concern. I don't
3 know that we're interested or able to insert a
4 Board review of the submittal. I think we're
5 confident in understanding what the issues are
6 that have been raised in the review, and we
7 have developed or are developing our position
8 on those and moving that OMB form submittal,
9 advancing it in a separate track from what is
10 going on in this Board process.

11 Let me turn that around. If we
12 inserted a Board review on the OMB submittal,
13 I'm not sure that we'll be enabled to make the
14 timeframe that we need to make.

15 **DR. ZIEMER:** Well, if I could, I think
16 there's a separate issue here, too, and that
17 is, what's the Board's role in that kind of a
18 process. I don't think we have a role in your
19 submittal, per se. However, once it's
20 submitted, then there's a document being used
21 as a procedure which we can turn around and
22 review and say is this now addressed
23 adequately the issues that were raised in the
24 previous round. Because it would be subject
25 to a review just as this had, and we would

1 have to gain some experience with it, get
2 feedback and so on.

3 **MS. MUNN:** Yes, Ted.

4 **MR. KATZ:** Let me just say --

5 **DR. ZIEMER:** Be like a new procedure where
6 you commit to revising something where we say,
7 okay, that's the outcome. We're fine with
8 that. Once it's revised we'll have a chance
9 to look at it again under a new light.

10 **MR. KATZ:** -- so let me explain --

11 **MR. GRIFFON (by Telephone):** I'm sorry. Can
12 I ask one thing just to clarify what I was
13 saying before? And, Larry, I agree, years
14 back I had asked for that, requested that we
15 could review the form that you were
16 submitting. And I understand the problems
17 with that. I guess what I was looking for now
18 is clarification that we, as a work group,
19 discussed the findings or the findings we're
20 discussing right now were all process related
21 in the CATI process.

22 They're not content related, and
23 Arjun's report, I believe the original SC&A
24 report, does have some information on content.
25 To the extent that would be useful to flesh

1 out and have agreement within our work group
2 or within the full Board to give to NIOSH
3 prior to their submittal of a new version. I
4 think that's where I thought we could have
5 input.

6 These things we've discussed so far,
7 maybe the coworker item is one thing that's on
8 the form. But there were definitely some
9 specific comments that we made about the
10 content of the form itself, and we've, I don't
11 think we brought those forward in this final
12 set of findings.

13 Is that wrong, Arjun, or --

14 **DR. MAKHIJANI (by Telephone):** Yeah, I
15 believe that that's correct, Mark. I have the
16 report in front of me. I cannot find -- I can
17 give you examples. For instance, one of the
18 comments was there's no question about food.
19 Workers often ate in contaminated places.
20 There's no question about overtime or bringing
21 home contaminated clothing or vehicles. So
22 there are a number of specific suggestions
23 like that or --

24 **MR. GRIFFON (by Telephone):** We didn't
25 really discuss those in the work group so if

1 we may or may not decide that some of them are
2 relevant to pass on to NIOSH and some we
3 believe are, whatever. I think we --

4 **DR. ZIEMER:** Are those in a finding that we
5 have already dealt with or --

6 **MR. HINNEFELD:** They're in the report.

7 **DR. ZIEMER:** In the body but they don't show
8 up as a finding.

9 **MR. HINNEFELD:** One of the findings that's
10 enumerated on the database. So there are
11 several suggestions made with respect to the
12 CATI form. And it refers you back to the
13 discussion in the report. So it essentially
14 is, you know, the recommendations are
15 essentially captured in one of the findings.

16 **DR. MAKHIJANI (by Telephone):** Mark, from
17 the time you chaired the group, I don't recall
18 that we, you know, we discussed the report,
19 and we did discuss many of these things, but I
20 don't recall that we went over changing of the
21 form because it was kind of academic at the
22 time.

23 **MR. GRIFFON (by Telephone):** At the time,
24 yeah, yeah. So now it might be more relevant
25 and we should maybe look at those again and

1 see if we want to pass those on as
2 recommendations from the work group to NIOSH.

3 **DR. MAKHIJANI (by Telephone):** They're on
4 page 205 of our January 17th, 2005, report in
5 case anybody wants to refer to it.

6 **MR. GRIFFON (by Telephone):** Give that
7 reference again, Arjun?

8 **DR. MAKHIJANI (by Telephone):** They're on
9 page 205 of the January 17th, 2005, report,
10 Section 5.5.1, which actually starts on the
11 prior page, page 204. It's called "Gaps in
12 the CATI Forms".

13 **MR. KATZ:** So, Mark, let me just -- this is
14 Ted -- talk about process issues as I recall
15 them related to doing these OMB pieces
16 information requests. We can certainly
17 incorporate expert opinion up front, but the
18 issue as Larry pointed out is a timing one.
19 And if we have to have a renewal in January, I
20 think Stu might have said?

21 **MR. HINNEFELD:** Yes.

22 **MR. KATZ:** There's a public comment process
23 that's part of it that makes it fairly
24 lengthy. And in this case it's either one or
25 two comment periods, each of which I believe

1 are 60 days. So it may work out that you can
2 get this work if you have to have more
3 deliberation done before it's submitted to
4 OMB. But if not, then there's that public
5 comment period as I think Dr. Ziemer was
6 indicating.

7 So one way or the other you can
8 certainly work it in. But if we haven't
9 submitted it yet, and we have a lot of the
10 information, the recommendations that have
11 already been developed, certainly we can
12 address those before we submit it because it
13 shouldn't take that long.

14 **MR. ELLIOTT:** And we will.

15 **MR. KATZ:** Right.

16 **DR. ZIEMER:** But, Mark, you're saying that
17 although SC&A suggested some things, the work
18 group hasn't really reviewed them per se. We
19 haven't looked at those for adequacy,
20 appropriateness and --

21 **MR. GRIFFON (by Telephone):** Well, and I
22 think Arjun's maybe correct. We tabled them
23 at the time because there was no sense on
24 discussing something that we couldn't effect.

25 **DR. ZIEMER:** Yeah, I understand. In other

1 words we agree there were gaps, but we didn't
2 spend any time on trying to delineate them.

3 **MR. GRIFFON (by Telephone):** I'm not even
4 sure we got to the point of agreeing there
5 were gaps. To be fair I'm not sure everyone
6 on the work group was in agreement with all
7 those items.

8 **DR. MAKHIJANI (by Telephone):** That's
9 correct. We did not have an item by item --

10 **MR. GRIFFON (by Telephone):** Right, I don't
11 think --

12 **DR. MAKHIJANI (by Telephone):** -- to my
13 recollection.

14 **MR. GRIFFON (by Telephone):** No, I don't
15 think so. So I think it would be useful just
16 to --

17 **MS. MUNN:** Well, we talked about it an awful
18 lot. I'm surprised we didn't have an item-by-
19 item because we did talk about it a lot. My
20 question, Ted, with respect to the public
21 hearings, the comment period, those are
22 following the submittal to --

23 **MR. KATZ:** Absolutely.

24 **MS. MUNN:** -- OMB, correct?

25 **MR. KATZ:** It's published in the Federal

1 Register, and then there's a 60-day public
2 comment period.

3 **MS. MUNN:** For the OMB document that you
4 would be submitting.

5 **MR. ELLIOTT:** A tentative timeline -- I was
6 just looking in my e-mail here for one day
7 someone sent to Stu, and I thought he put a
8 timeline in but he didn't. But I believe the
9 timeline we have discussed is that in
10 September, no later than mid-September, we
11 have got to get this OMB package up into being
12 processed for hopes that it'll be renewed and
13 approved by January. If not, then they give
14 us an extension, but we don't like to carry
15 extensions for very long.

16 **MS. MUNN:** Well, it sounds to me as though
17 that certainly is a legitimate sounding
18 timeline. From this group's perspective this
19 means that this becomes a major item on our
20 September meeting, one that we should be
21 prepared to bring as close to closure as
22 possible since we're going to have to fish or
23 cut bait on that one.

24 **DR. MAKHIJANI (by Telephone):** Well, Ms.
25 Munn, it might be more expedient in terms of

1 what Larry and others have been saying in
2 terms of NIOSH time constraints. If NIOSH
3 simply considered these items and got back to
4 the working group about what they found useful
5 in them, and we went from there, it might cut
6 short the amount of time that we need to
7 discuss it.

8 **MS. MUNN:** Yeah, I sort of thought that was
9 what I was suggesting when I first brought
10 this up.

11 **MR. ELLIOTT:** Well, certainly during the
12 public comment periods if you haven't had a
13 chance before then to develop your position,
14 that will give you another opportunity to
15 speak about the Board's position on these
16 particular issues.

17 **MS. MUNN:** Well, let's get through the case
18 at hand, which is PROC-0090, and urge the
19 Board members to please re-review or re-read
20 the SC&A report so that you have in your
21 individual minds any revisions that you feel
22 are crucial. I would urge all of us not to
23 dwell on minutia and to remember that we want
24 to eliminate, not to complicate --

25 **MR. GIBSON (by Telephone):** Hey, Wanda, this

1 is Mike. Just for the record this item may
2 not be exclusively for the Procedures group
3 because I'm sure this will come to head in the
4 Worker Outreach work group, too.

5 **DR. ZIEMER:** Worker Outreach group might
6 want to --

7 **MS. MUNN:** Yes.

8 **MR. GIBSON (by Telephone):** Okay.

9 **MS. MUNN:** Would you like us to assume that
10 we will copy you? As a member of the Worker
11 Outreach group we can certainly make sure that
12 that is on your slate, right?

13 **MR. GIBSON (by Telephone):** Yes, you know,
14 I'm just sure that this item's going to come
15 up somewhere in that work group so I just
16 wanted to get that out there --

17 **DR. ZIEMER:** I think that's appropriate,
18 Mike. You may want to have the group actually
19 review the CATI form and see if you have some
20 independent comments.

21 **MR. GIBSON (by Telephone):** Right, that's
22 what I anticipated.

23 **MS. MUNN:** All right, very good. We were on
24 item seven, and I have no clear memory of
25 where we were on item seven. Can anybody help

1 me out?

2 **DR. ZIEMER:** Well, the terminology on
3 coworker was one of the issues, right? Are we
4 going to look at that and see whether there's
5 some -- I think Larry's suggesting that in the
6 -- let's see, your definition list, you're
7 going to have a list of --

8 **MR. ELLIOTT:** A glossary, we have. We have
9 various ways.

10 **DR. ZIEMER:** -- where you might clarify the
11 usage of the term coworker and --

12 **MR. ELLIOTT:** We need to do something
13 similar for partial dose reconstructions.
14 We're receiving a lot of questions about what
15 does a partial dose reconstruction really
16 mean.

17 **MS. MUNN:** Why didn't you do the whole
18 thing?

19 **MR. ELLIOTT:** Yeah, why didn't you do the
20 whole thing. So we're looking at, Chris
21 Ellison is looking at those kind of things on
22 our website and trying to figure out how many
23 different ways that we can say what needs to
24 be said and place it in different places on
25 the web page.

1 **DR. ZIEMER:** And maybe the fellow worker or
2 some other term.

3 **MR. ELLIOTT:** I like fellow worker. I think
4 that may be something we can utilize here.

5 **MS. MUNN:** So our action on this is going to
6 be what?

7 **MR. HINNEFELD:** Well, the change in
8 terminology between coworker and fellow
9 worker. And also, I think, a little more
10 clarity to the claimant about the fact that we
11 aren't necessarily going to hunt down fellow
12 workers, that they would be contacted on
13 occasion or rare occasions. We rarely contact
14 fellow workers because as a general rule we
15 can obtain sufficient information for the dose
16 reconstruction without. Some words along the
17 line that sort of resets the expectation in
18 the mind of the claimant about what this
19 process is, what this fellow worker process
20 is.

21 **MS. MUNN:** So for this particular finding,
22 is our next entry going to be that NIOSH will
23 suggest additional wording or a revision of
24 wording as a potential change for the CATI?
25 We can't say change for it at this point, as a

1 potential change?

2 **MR. HINNEFELD:** Yeah, it may be the CATI or
3 it may be other part of the acknowledgement
4 packet that's, you know, it may be in a
5 variety of places, ways to communicate --

6 **MS. MUNN:** Interaction with claimants, yeah.
7 Finding eight.

8 **MR. MARSCHKE (by Telephone):** Number seven
9 now is changed to in abeyance?

10 **MS. MUNN:** Yes.

11 **MR. MARSCHKE (by Telephone):** Thank you.

12 **MS. MUNN:** That's my understanding.

13 Anyone else?

14 (no response)

15 **MS. MUNN:** In abeyance. Number eight.

16 **MR. HINNEFELD:** Number eight, I'll start
17 unless Arjun wants to talk about it.

18 **DR. MAKHIJANI (by Telephone):** No, no,
19 please go ahead.

20 **MR. HINNEFELD:** The finding statement is
21 procedure lacks sufficient information to
22 assist the recipient in interpreting the
23 questions, especially family member claimants.
24 And this speaks to actually the preparation of
25 the interviewer if I'm not mistaken.

1 This kind of started us off on the
2 wrong path. And our response originally,
3 well, we don't try to prepare the claimants
4 for this interview. We give them the script
5 and things like that, but we don't try to pony
6 them up for the interview. But I think the
7 intent of the finding was really the
8 preparation of the interviewers.

9 Is that right, Arjun?

10 **DR. MAKHIJANI (by Telephone):** Yeah.

11 **MR. HINNEFELD:** And this more specific
12 statement, I guess this may be the original
13 statement of finding. Interviewers are not
14 required to have an incident list or a job
15 category list or familiarity with the specific
16 facility that the survivor worked at in
17 particular.

18 In other words they don't have to read
19 the site description section of the site
20 profile, and so they don't have this body of
21 information in front of them that would make
22 it easier for them to understand what the
23 claimant is telling them. This to me is a
24 difficult area to get into because at what
25 point have you instructed them enough, an

1 interviewer enough.

2 You know, the interviewers have to do,
3 even today, 200 new claims a month are coming
4 from the Department of Labor. And, of course,
5 we have worked through a large backlog of
6 claims, so there are a lot of interviews to
7 do. And I think there might be a sort of a,
8 you know, maybe the ORAU people can kick me
9 under the table or just tell me I'm wrong.

10 I think there's probably an attempt
11 for someone who's, if they're familiar with a
12 particular site, to try to do those interviews
13 with that site rather than try to make them
14 knowledgeable about everything. But because
15 of work balance concerns you just can't rely
16 on saying, okay, Joe's going to do all the
17 Hanford interviews or Joe and Tom are going to
18 do all the Hanford interviews.

19 So you're in the position then of
20 trying to make your interviewers knowledgeable
21 about some level of detail of some 200 sites
22 that we have claims from. So first of all,
23 you're starting out with something you can't
24 really accomplish in particular detail. When
25 you get into things like lists of incidents,

1 that to me is always, what is an incident is
2 always sort of an ill-defined task.

3 If you make a list of incidents that
4 occurred at such-and-such facility and without
5 specifying a threshold and what kind of
6 incident you're talking about, you're kind of
7 on a hopeless journey here because an incident
8 to a worker is something that affected him out
9 of the ordinary in his particular work day
10 whether there was a particular consequence to
11 it from dosimetry, or there may have been
12 something that happened that was of
13 consequence to dosimetry that he wasn't in a
14 position to observe that he was just affected
15 by.

16 So to us it's a little difficult to
17 come up with an incident list. And we don't
18 even, actually, we don't even try to develop
19 comprehensive list of incidents in our site
20 profile. So when you get into this kind of
21 situation is, of trying to prepare the
22 interviewers more thoroughly, make them more
23 knowledgeable so that they can better
24 understand the, what the claimant says, you
25 really run into a, you can't make them

1 completely knowledgeable that they will
2 absolutely understand what the claimant says
3 no matter what.

4 And so you get a kind of a balancing
5 of costs, diminishing returns in trying to
6 balance how much effort can you spend on
7 training your interviewers versus how much
8 benefit do you get out by making them that
9 much smarter about the specific sites. So to
10 me it's really hard to address this. It's
11 really hard to say we can make the
12 interviewers good enough that they'll
13 understand what these guys are talking about,
14 and they'll never misunderstand a term.

15 And the example that keeps popping
16 into my head, and this goes way back to my
17 early days in the program when, I think it was
18 at a public comment session, a claimant
19 complained about the interviewers not really
20 knowing very much because he had used the word
21 cold trap, and it had been transcribed as coal
22 trap, C-O-A-L trap. Now, if we were to
23 describe the activities at a gaseous diffusion
24 plant or ^ 64 facility -- and that's my
25 familiarity --

1 **MS. MUNN:** Or an FFTF.

2 **MR. HINNEFELD:** -- and you've talked about
3 what they did, what does this facility do,
4 you're getting pretty, fairly detailed by the
5 time you start talking about the cold traps
6 and all that. So it's not likely that had
7 this person been particularly familiar with
8 even the facility, if they had studied the
9 facility and known what they did, the term
10 cold trap may not have been part of that. I
11 mean, that's going pretty far.

12 Now, that's probably an extreme
13 example, and I'm sure Arjun will point out
14 that that's an extreme example. But this is
15 one where, look, we're interested in helping
16 the claimants as we can. And the interviewers
17 are interested in helping the claimants as
18 they can. We try to provide them the
19 information that will assist them in doing
20 that, but we can't take on a task that's
21 essentially undoable just to try to do an
22 undoable task a little better.

23 And so we aren't really proposing to
24 change too much other than what we would do as
25 just process improvements because we want to

1 do a good interview and we want the interview
2 to be a good circumstance for the claimant.

3 **MR. ELLIOTT:** Given all of that, ORAU still
4 trains the interviewers --

5 **MR. HINNEFELD:** There is training material
6 for the interviewers.

7 **MR. ELLIOTT:** -- on various sites, and when
8 a new site profile or technical basis document
9 or technical information bulletin comes on
10 line and is implemented, that's one of the
11 training --

12 **MR. HINNEFELD:** I don't know.

13 **MR. ELLIOTT:** Is it? I thought that's what
14 I understood.

15 **MR. SIEBERT:** David, are you still on the
16 line?

17 (no response)

18 **MR. HINNEFELD:** David Shatto?

19 **MR. SIEBERT:** That would be the person who
20 would, I think might be able to answer that
21 because I don't know.

22 **MS. MUNN:** Certainly, Stu, what you have to
23 say is well received with respect to the
24 minefield that we get into with semantics.
25 And I can think of really no better one than

1 the incident incidence because it's certainly
2 not just the workers themselves, the general
3 public misunderstands what's meant by an
4 incident report, what an incident is. I have
5 a good long story that I'll tell anyone who's
6 happy to listen after we're off transcript
7 here about how shocked PBS film crew was.

8 **MR. SHATTO (by Telephone):** I'm sorry, Stu,
9 I was trying to hit mute and I disconnected
10 myself.

11 **MR. HINNEFELD:** Did you hear Larry's
12 question about the training for the
13 interviewers when new documents come out?

14 **MR. SHATTO (by Telephone):** Yes, I did,
15 about is there specific training on a facility
16 as it comes on line. Is that the question?

17 **MR. HINNEFELD:** That was the question,
18 right.

19 **MR. SHATTO (by Telephone):** No, there's not
20 specific training for the interviewers as that
21 comes on line.

22 **MR. HINNEFELD:** Well, when a technical
23 document comes out, the training usually is to
24 the dose reconstructors about how to implement
25 that, that technical document. So, but now

1 there is a training package for the
2 interviews, right?

3 **MR. SHATTO (by Telephone):** Yes, there is.
4 It's a basic training on the facilities in
5 general and where to go get information as
6 it's needed.

7 **MR. ELLIOTT:** And then the other thing I
8 would point out is that after the interview is
9 conducted and a report is drafted, the people
10 who were interviewed get an opportunity to
11 comment on that and edit it. And maybe they
12 don't raise questions like perhaps everyone
13 thinks they should about, well, you don't have
14 anything in here on the incidents or you don't
15 have anything here about the accident that I
16 had. But there is that one more time for an
17 interviewee to provide input.

18 **MR. HINNEFELD:** Yeah, and maybe David can
19 provide at little, maybe he has a sort of
20 anecdotal impression about how frequently we
21 get proposed revisions from claimants when
22 they see the first CATI report that we put
23 out.

24 **MR. SHATTO (by Telephone):** For like
25 updates?

1 **MR. HINNEFELD:** Right. When we do a CATI,
2 we write down what we think we heard, and we
3 send it to the claimant, do we get, do you
4 have any kind of feeling for --

5 **MR. ELLIOTT:** Are there a lot of changes?

6 **MR. HINNEFELD:** -- do they hesitate to speak
7 up or do they speak up freely?

8 **MR. SHATTO (by Telephone):** They do make
9 several changes. I mean, some interviews may
10 go through two or three different revisions.
11 It depends on the interviewee, the claimant,
12 if they have a lot of specific knowledge that
13 they're wanting a lot of detail, then, yes,
14 they will have several revisions depending on
15 what they're trying to get across. And it
16 does change. Sometimes they'll change their
17 mind on where they wanted their focus.

18 **MS. MUNN:** Can you hear all right? It's
19 very faint here.

20 **MR. HINNEFELD:** Based on the process that we
21 have, and like I said how far do we go to try,
22 how far do we go down this task if we can't do
23 completely. You know, we haven't really
24 proposed any particular changes in this avenue
25 other than the fact that we do, as just normal

1 process improvement, track that kind of
2 activities in all our work. If we can find
3 ways to improve what we're doing, we implement
4 those.

5 **MS. MUNN:** So?

6 **DR. MAKHIJANI (by Telephone):** If I might
7 just comment on what Stu said. I don't think
8 the intent of the comment -- now, it was a
9 long time ago, so I don't remember exactly
10 what I was thinking then or what Kathy and I
11 were thinking then, but knowing what I know
12 now and the experience we've had, the intent
13 of the comment isn't that an interviewer
14 should be a health physicist in the CATI
15 interviewer or an expert on a particular site.

16 But knowledgeable and familiar with
17 the site profile is sort of a different thing.
18 Or to have the claimant's claim in front of
19 them so it would be at least cursorily
20 familiar with the claim, none of which is
21 required now. You've got so many sites, and I
22 understand that many sites don't even have a
23 site profile.

24 So I would agree that there are
25 interviewers to whom particular sites like

1 you've got a lot of claims from Hanford and
2 there are two or three interviewers who
3 basically handle those interviews. It might
4 be worth the time for them to actually go
5 through the site profile, and also I don't
6 know how you want to decide whether they
7 should have the claim in front of them or not.

8 So it might smooth the process down
9 the way if the interviewer had that. You
10 know, you all are doing the work, and it's
11 hard to second guess details down into the
12 weeds like that.

13 **MS. MUNN:** Well, and it's hard for me,
14 individually, to try to identify why exactly
15 the interviewer should be in a position of
16 needing to provide more information to the
17 claimant than the claimant has access to
18 already. That's difficult to decide. You
19 certainly don't want to lead claimants one way
20 or the other. Either they have information or
21 they do not have information.

22 So where do you come down on, what
23 would you suggest sufficient information would
24 be in interpreting the questions? The
25 questions have more to do with the work that

1 an individual did. I guess I'm asking
2 something from SC&A which was inferred in the
3 original finding that doesn't seem to have an
4 answer.

5 **DR. MAKHIJANI (by Telephone):** Well, I don't
6 know that it doesn't have an answer, Ms. Munn.
7 We made at least an inferential recommendation
8 that the interviewer should be more familiar
9 with the site profile and should have the
10 claim in front of them. Now, if that's not
11 practical beyond what is being done, I mean,
12 that's a call that the working group has to
13 make in terms of what you tell NIOSH and, of
14 course, that NIOSH makes in terms of how they
15 actually go about things.

16 **MR. HINNEFELD:** Now, Arjun, when you say
17 talk about having the claim in front of them,
18 are you talking about the claimants' exposure
19 history?

20 **DR. MAKHIJANI (by Telephone):** Yeah, you
21 know, say, even if it's an employee, you leave
22 aside the problems with survivor claimants, I
23 think often people don't remember things, and
24 or may say something that's wrong, in which
25 case you might have a CATI record that's

1 contradictory to the paper record.

2 Now, I don't know whether this kind of
3 thing would cause the interviewer to depart
4 from the script. I mean, there are a number
5 of things that are implicit in the way, in the
6 recommendation in the way the interview is
7 conducted. So from a practical point of view
8 it's hard to tell. But the survivors often
9 say don't know, don't know, don't know.

10 You have raised the objection that you
11 don't want interviewers to be prompting
12 interviewees, and I would agree with that.
13 You don't want interviewers to be prompting
14 interviewees. So there's a kind of a fine
15 line, and I don't have a very good judgment
16 about where that fine line is.

17 So in a way I think there's a concept
18 that's before you and how you implement that
19 concept or what the working group thinks about
20 it is kind of what I would defer to how you
21 think the interviewee might best be helped to
22 produce or remember the best quality
23 information that would help the dose
24 reconstructor.

25 **MS. MUNN:** We can probably go further than

1 saying there's a fine line. I think there's a
2 bright line if you really and truly get down
3 and think about it. And that bright line has
4 to be that the interviewer does not contribute
5 anything to this process in terms of
6 information.

7 If the interviewer is there for the
8 purpose of providing information, then this,
9 by definition, causes a bias in the response
10 of the individual being interviewed. I think
11 most any individual who's done interviewing, I
12 think most psychologists in that field would
13 take that position. But your questioner must
14 be neutral, otherwise you are biasing the
15 information one way or the other.

16 **DR. MAKHIJANI (by Telephone):** But neutral
17 is a little different than not knowledgeable.
18 Interviewers, well, you know, this is kind of
19 a discussion on an abstract level, but the
20 point at issue was not whether the interviewer
21 should be neutral or not, and that's, of
22 course, I would agree. The point at issue is
23 whether the interviewer should be
24 knowledgeable.

25 **MS. MUNN:** One would maintain that the dose

1 reconstructor needs to be knowledgeable. The
2 interviewer, however, is accepting
3 information, being open to all information,
4 presenting a question hopefully in a neutral
5 way. So what we're pushing for here is
6 closure on this particular finding.

7 **DR. MAKHIJANI (by Telephone):** And as I've
8 said, I think that the spirit of the finding,
9 and I personally am willing to say that I
10 think NIOSH has looked at this finding and can
11 see how best it might implement it. And
12 mostly as I hear Stu's responses that you're
13 doing what can be done to make the interview
14 outcome as complete and accurate as possible
15 and that nothing more needs to be done.

16 Is that sort of a summary of what you
17 said, Stu?

18 **MR. HINNEFELD:** That's a very good
19 characterization of what I said.

20 **DR. MAKHIJANI (by Telephone):** So at that
21 stage I guess it's just for the working group
22 to decide whether this issue is closed or
23 whether we need to debate it more.

24 **MS. MUNN:** Is the sense of the discussion
25 which has just ensued can be captured in our

1 closing comment on the status sheet, is there
2 any objection to calling this closed?

3 (no response)

4 **MS. MUNN:** We can always leave it in
5 abeyance until we see the words. What is your
6 choice?

7 **DR. MAKHIJANI (by Telephone):** Well, is
8 NIOSH going to revise some of the words in the
9 procedures for interviewers or how is --

10 **MR. HINNEFELD:** Yeah, see, there's a
11 revision of PROC-0090 that will be done.

12 **DR. MAKHIJANI (by Telephone):** So I would
13 suggest that we can just leave it in abeyance
14 until that time, but I don't see that there's
15 further discussion from my point of view. I
16 listened to Stu, and I think they've
17 considered this.

18 **DR. ZIEMER:** It's not clear to me how the --
19 are you talking about the new CATI form?

20 **MR. HINNEFELD:** Yeah, I think there'll be
21 some changes in procedures as well, PROC-0090
22 procedures.

23 **DR. ZIEMER:** But even in the procedures it's
24 hard for me to see how you specifically
25 address this. In other words you'll have

1 interviewers who are trained in a way so that
2 they know technical terms and that sort of
3 thing.

4 **MR. HINNEFELD:** To the extent we can, yeah.

5 **DR. ZIEMER:** To the extent you can, so if
6 somebody's talking about a Roentgen they sort
7 of know that terminology. I tend to agree, I
8 think, with what Wanda's saying that even if
9 they give misinformation like if someone from
10 Idaho said I was in the SL-2 accident, I don't
11 want the interviewer to say, no, you mean the
12 SL-1 accident. I would like him to put down
13 what the claimant thinks that they were
14 involved in.

15 And the claimant may have it wrong,
16 but it doesn't seem to me that we want the
17 interviewer interposing themselves because
18 maybe the claimant is right because they were
19 at the site. Or we don't want the interviewer
20 saying, no, well, that didn't happen at your
21 site so that's not good information. Whatever
22 they have, so not to interpose themselves. So
23 I'm just concerned that we don't push this to
24 the point where the interviewers are
25 controlling the input from the clients.

1 **MR. MARSCHKE (by Telephone):** This is Steve
2 Marschke. Stu said something earlier in the
3 discussion about that an attempt is made to
4 use an interviewer who's more familiar with
5 the site. And I think if words to that effect
6 were in PROC-0090, not necessarily saying he
7 must be familiar with the site, but we do
8 acknowledge that we do at least make an
9 attempt to use knowledgeable, you know, people
10 who are knowledgeable of the site and use,
11 again like you mentioned for Hanford, use the
12 same interviewers for all the Hanford
13 claimants or the same group of interviewers
14 for all the Hanford claimants and so on and so
15 forth, that might help. I don't know.

16 **DR. ZIEMER:** So that if they said I worked
17 in the canyons at Savannah River, the
18 interviewer sort of knows what they're talking
19 about.

20 **MR. MARSCHKE (by Telephone):** Exactly.

21 **DR. ZIEMER:** I don't have any trouble with
22 that idea.

23 **MR. HINNEFELD:** I hate to speak
24 knowledgeably here because this affects the
25 work of ORAU, not the work of me, and I want

1 to see before we commit to that -- we may well
2 do that, but we want to --

3 **DR. ZIEMER:** To the extent possible.

4 **MR. HINNEFELD:** -- given the work planning
5 constraints and getting what has to be done,
6 done. And to the extent that it is merely a
7 suggestion that we will attempt to do this,
8 and so as need be they can do work planning
9 and have the people do what has to be done. I
10 don't see any particular problem in that. But
11 I really hate to speak very definitively about
12 this.

13 And I know Dave is not really a task
14 team leader for this task. He's sitting in
15 for his boss, and he may be a little concerned
16 about speaking up as well. But I think that
17 kind of thing if we can say it truthfully, and
18 it's sort of a guidance or suggestions rather
19 than a hard and fast rule that would interfere
20 with our work plan, then I personally don't
21 see a particular problem with that.

22 **MR. SHATTO (by Telephone):** This is David.
23 I was going to jump in just a second. I think
24 that would affect, it could affect some of the
25 work planning given our, I mean, some of these

1 sites, I mean, there's 200 -- like you said
2 earlier -- there's 200- and-some facilities
3 out there. Some of these I think Wanda
4 actually stated earlier, we don't want to
5 discredit anything that the claimant's saying.
6 I would hate for the interviewers to think
7 that they are to say something didn't happen
8 at a site. That's my input.

9 **MR. ELLIOTT:** This is Larry Elliott. I
10 think it would be different if we were having
11 this conversation at the front end of this
12 program where we have a large number, had a
13 large number of claims per certain sites, and
14 you could tailor your interview staff to be
15 knowledgeable about a given site. But we're
16 not there now.

17 We're at a juncture now where the 200
18 claims that we're seeing come from DOL in a
19 given month, maybe 20 of them are Hanford, if
20 that, maybe another 20 are Savannah River, and
21 then the rest are all over the place. And so
22 I think we're not searching now for
23 interviewers that have established knowledge
24 about a given site as much as knowledge about
25 how to do the interview and do it effectively.

1 So I don't know. We'll take it under
2 advisement, and we'll consider it, but as I
3 know Stu has jotted this down, he'll go back
4 to ORAU, and we'll talk about it.

5 **MS. MUNN:** Good. I'm just searching for a
6 set of words that are comprehensive enough to
7 make everybody happy that we can close this
8 out. So we'll await the words. Okay?

9 (no response)

10 **MS. MUNN:** Anything else on item eight? I
11 hope not.

12 (no response)

13 **MS. MUNN:** Can we move on to item nine?

14 **MR. HINNEFELD:** The statement of item nine's
15 finding is the interviewer is not required to
16 have knowledge of the facility although some
17 may have it. Now, to me this sounds like the
18 one we just talked about. It sounds like
19 number nine. I mean, the preparation of the
20 interviewer not to be knowledgeable, so I
21 think it's the same one.

22 **MS. MUNN:** It appears to be an extension of
23 the same thing, just further delineation of --

24 **MR. HINNEFELD:** My suggestion would be this
25 could be addressed in finding number nine. It

1 could be changed to that unless there's some
2 aspect of this that I didn't pick up on.

3 **MS. MUNN:** Or eight.

4 **MR. HINNEFELD:** This is nine?

5 **MS. MUNN:** This is nine we're looking at
6 now.

7 **MS. ADAMS:** You jumped to ten, Stu.

8 **MR. HINNEFELD:** I jumped to ten?

9 **MS. ADAMS:** Yeah.

10 **MR. HINNEFELD:** Well, I think it sounds a
11 lot like nine.

12 **MS. MUNN:** Yes, it actually appears that
13 eight and nine are a parsing of the same
14 issue. So let us agree to close one or the
15 other and cover it --

16 **DR. ZIEMER:** The same way.

17 **MR. HINNEFELD:** Yeah, I guess you're right.
18 I consider eight, nine and ten to be largely
19 the same. It has to do with how well prepared
20 is the interviewer, how knowledgeable is the
21 interviewer of the site in order to do the
22 interview and it seems like to be the same, I
23 think maybe eight contains the additional
24 context of how familiar is the interviewer
25 with the claim --

1 **MS. MUNN:** Yes.

2 **MR. HINNEFELD:** -- in addition to the site.
3 So there's that additional element with eight.
4 Eight, nine and ten are very much the same.

5 **MS. MUNN:** May we close nine and ten by
6 saying that they will be covered by item
7 eight? Any objection to that?

8 **MR. ELLIOTT:** Well, at the risk of
9 belaboring the discussion here, I need to
10 understand a little more as to what is
11 intended by the comment that the interviewer
12 needs to understand the claim better. What
13 part of the claim or what aspect of the claim
14 needs to be better understood by the
15 interviewer in order to conduct an effective
16 interview?

17 **MR. HINNEFELD:** I don't know the specifics;
18 we said number eight, but they said in one of
19 the findings later on it has to do with having
20 the exposure history available to the claimant
21 -- or to the interviewer during the interview.
22 Right now, the interview doesn't necessarily
23 wait on the response from the DOE on the
24 exposure.

25 **DR. ZIEMER:** I don't think it's mentioned in

1 eight, nine or ten.

2 **MR. HINNEFELD:** No, it's not mentioned in
3 eight, nine or ten, but it comes up later.
4 And then Arjun talked about having the claim
5 open in front of him. That would be
6 something, somewhere we might want to go
7 because maybe that's worth talking about some
8 more. At the time of the CATI interview, the
9 claim file essentially consists of the package
10 that the Department of Labor sent over to us.

11 **DR. ZIEMER:** So you don't have the DOE
12 records.

13 **MR. HINNEFELD:** Not now. Sometimes yes,
14 sometimes no, might or may not. It's not a
15 required to proceed with the interview but it
16 might be there. So the file that the DOL
17 sends over is the claimant form and one, two,
18 three or something like that, the form that
19 the claimant fills out in order to file a
20 claim with the Department of Labor.

21 On that there's some information the
22 claimant fills in about where they worked and
23 their job title and things like that. And
24 then there is the, behind that there's
25 usually, there will be the medical information

1 that they provided to the Department of Labor.
2 And then there will be whatever the Department
3 of Labor has done to develop and support the
4 information in the application, usually an
5 employment verification, and there may be some
6 interpretation of the medical record, maybe
7 not.

8 There may not be anything, any kind of
9 interpretive statement, but sometimes the
10 medical information is pretty lengthy. So
11 from the status, now, the interviewer has
12 available to them on the screen without ever
13 opening the claim file most of the demographic
14 information that's associated with the claim.

15 It will show them what the covered
16 employment is, what the diseases are, what the
17 covered conditions are so that that's
18 available to them on a view screen. And, in
19 fact, I believe it's probably on the CATI
20 report. One of the things they do is ask the
21 claimant to verify these are the covered
22 conditions that the Department of Labor has
23 told us about. Are these the cancers that you
24 have.

25 **MR. ELLIOTT:** And the employment history.

1 **MR. HINNEFELD:** And the employment history.
2 So opening the file, the claim file, or having
3 the claim file or making the interviewer open
4 the claim file, to me, doesn't provide them a
5 whole lot more information than what's on the
6 view screen that's used actually to populate
7 the CATI form.

8 So other than the exposure record, the
9 DOE exposure record, which would be perhaps
10 relevant information, to verify, then you'd
11 have to gin up the question the Department of
12 Labor indicates that you were monitored from
13 this year to that year or from these years to
14 those years via film badge and that you had
15 bioassay samples.

16 Rather than go through that which
17 requires an interpretation of that record by
18 the way, and not necessarily an easy one
19 especially in the case of Hanford, there's not
20 a lot in the claim file that's really beyond
21 what's just automatically produced on the CATI
22 form.

23 **DR. ZIEMER:** Well, is this being asked for
24 in a different item that we're not --

25 **MR. HINNEFELD:** Well, that exposure history

1 comes later. It's in one of the later
2 findings. But this one Arjun did on one of
3 the findings, number eight, talked about the
4 interviewer being more knowledgeable of the
5 claim, and Arjun mentioned that they're not
6 required to have the claim file open when they
7 do the interview or have the claim file when
8 they do the interview.

9 And I guess my point is that the bulk
10 of the claim file at that point doesn't, you
11 know, can be many, many pages, but the
12 information that really is relevant to our
13 task is the demographic information and the
14 information about covered conditions of
15 covered employment which is automatically
16 reproduced from database onto the CATI form.

17 So I don't know that access to the
18 claim gives the claimant or the interviewer a
19 lot more information than they have from the
20 database information that's summarized for
21 them.

22 **DR. MAKHIJANI (by Telephone):** That may be
23 right, Stu. That may be right. Yeah, it's
24 possible that it doesn't add a whole lot in
25 the interview if you get into all the details

1 of how the claim files ^ look and how
2 difficult a lot of paperwork is. This may not
3 be, this is not necessarily a useful
4 suggestion.

5 **MR. HINNEFELD:** And one thing you all need
6 to keep in mind, this report was originally
7 written in 2005.

8 **DR. MAKHIJANI (by Telephone):** No, it was
9 written in 2004, sent out in January of 2005.

10 **MR. HINNEFELD:** And Arjun's seen a lot more
11 of the program since then. And so he may not
12 have written this today.

13 **DR. MAKHIJANI (by Telephone):** Yeah, I think
14 knowing how difficult a lot of the material in
15 the individual claim files is, I think it's
16 not a very useful suggestion.

17 **MR. MARSCHKE (by Telephone):** Just for a
18 little clarification, at the end of issue
19 eight in parentheses it refers back to finding
20 eight of the original report which talks about
21 family member claimants. And in issue nine in
22 the parentheses it refers back to finding one
23 of the original report which refers to worker
24 claimants.

25 So I guess really the fine points

1 between, the difference between issue eight
2 and nine is that, does any additional
3 knowledge or information need to be provided
4 to an interviewer who is interviewing family
5 member claimants as opposed to a worker
6 claimant.

7 **DR. ZIEMER:** Well, I'm certainly willing to
8 answer that. I think the answer is no, and
9 here's the reason. Number one I think there's
10 often a misconception, particularly among
11 family members, that there's a burden on them
12 to provide the information to process the
13 claim, when, in fact, we're simply trying to
14 supplement the information. Do they have
15 other information that we don't already have.
16 But I don't think it serves us well to say, to
17 try to coach them on what the claimant did as
18 part of gathering information. It's sort of -
19 - in fact, we need to make it clear to them
20 that processing the claim is not dependent on
21 their knowing details of the claimants' work,
22 and I think we do that, at least we try to,
23 right?

24 **MR. ELLIOTT:** I hope we do. I think we do.

25 **DR. ZIEMER:** Although we still hear these

1 comments from family members who say they
2 asked me to provide all of this information,
3 and I don't know anything about it. We
4 certainly need to make it clear if they know
5 additional things, fine. If not, the claim
6 will be able to be processed very well, thank
7 you.

8 **MR. ELLIOTT:** But I would hope we're doing
9 that. I think we're doing that, but it's
10 something that we always feel we need to
11 revisit with whoever does interviews.

12 **DR. ZIEMER:** In fact, the family members may
13 not even be able to verify all the things that
14 the claimant did that Stu was talking about.

15 **DR. MAKHIJANI (by Telephone):** It may be
16 useful in this context to insert, to let the
17 individual know that if NIOSH feels they
18 cannot do dose reconstruction, that they do
19 initiate 83-14 special exposure cohorts. It
20 may not be. I mean, it's a suggestion that
21 might put the claim -- and now that you have
22 done, initiated many, quite a few 83-14 SECs,
23 you have a track record that you can point to
24 with claimants that always believe that you
25 have enough information in that you've

1 initiated a number of them which could put
2 them a little more at ease that, you know, if
3 you don't have enough information that you'll
4 do that.

5 **DR. ZIEMER:** Yeah, but in a way that's still
6 the same end result that we can proceed, that
7 it's not dependent on the family members to
8 come up with details on the work or the
9 incidents or the type of materials worked with
10 or locations or anything else. So I think in
11 answer to the original question do you give,
12 do we need different training for the
13 interviewers for family members or different -
14 - what is it -- different information that's
15 given to them. I don't think so.

16 **DR. MAKHIJANI (by Telephone):** One could
17 take a fairly radical position here and say
18 the interview's almost never useful, and why
19 do the interview. Why not just do it in those
20 cases where the dose reconstructor feels they
21 need information from the claimant?

22 **MR. HINNEFELD:** Well, that could work. Need
23 a rule change.

24 **DR. MAKHIJANI (by Telephone):** Yeah, I mean,
25 these comments --

1 **DR. ZIEMER:** Well, these aren't claimants.

2 **DR. MAKHIJANI (by Telephone):** -- a part of
3 the problem has been resolved by the changing
4 of the original letter that was sent that said
5 this is critical, you know, your dose
6 reconstruction may not work if, you know, it
7 may not be able to be done accurately if you
8 don't provide this information. And that has
9 been changed. That letter has been improved,
10 and so the imperative language has been taken
11 out of it.

12 But if the materials in the interview
13 are rarely useful, then -- and I think in
14 reviewing dose reconstructions -- Hans and
15 Kathy are not on the line I imagine -- but
16 generally we found that the dose
17 reconstruction is done without much reference
18 to the CATI. And in that case there's a sort
19 of a bigger question that arises, and maybe
20 we're doing them just because they're part of
21 the regulation.

22 **DR. ZIEMER:** But on the other hand there are
23 still a number of claimants, that is family
24 member claimants, who have had a wealth of
25 information about their family member for whom

1 the claim is being initiated. So some know
2 nothing, but we've seen some that know a lot.
3 But I don't think you can eliminate that
4 interview. They are claimants if the
5 individual has died and they are, they have
6 the same status legally, don't they?

7 **MR. ELLIOTT:** They do have the same status.

8 **DR. ZIEMER:** Entitled to an interview and --

9 **MR. ELLIOTT:** But there's no requirements
10 that an interview be conducted out of the law.
11 We put that in there in our regulation --

12 **DR. ZIEMER:** Yeah, but it's there.

13 **MR. ELLIOTT:** -- thinking that we wanted to
14 hear the individual worker's side of the
15 story, and if a survivor claimant had anything
16 to offer to supplement the information for the
17 claim to better our ability to reconstruct
18 dose, we wanted that. We want to give them
19 the opportunity to provide that. It's really
20 a test of just how much value we have gained
21 from the interviews. If we do away with it,
22 we'd have to do an assessment of that.

23 **MR. MARSCHKE (by Telephone):** We could make
24 the interviews optional by the claimant.

25 **MR. ELLIOTT:** Well, they are. They are

1 right now. They're voluntary. They don't
2 have to go through an interview. In fact,
3 we've had some that have declined interviews.

4 **MS. MUNN:** But the issue with number 11 is
5 whether or not the follow up action that's
6 listed from NIOSH is adequate for us to close
7 it. It says this finding refers only to the
8 page in the checklist. The statement of the
9 finding is pretty complete. It appears on the
10 checklist. Also seems to allude to additional
11 discussion on this topic. There's no
12 reference to where that discussion appears.
13 If there's additional discussion, its page
14 number would help. Is there additional
15 discussion or can this be closed?

16 **MR. HINNEFELD:** Are we on to 11 now?

17 **MS. MUNN:** Well, I thought we were.

18 **MR. HINNEFELD:** I thought we went up to ten.

19 **MS. MUNN:** I thought we had beaten ten to
20 death.

21 **MR. HINNEFELD:** I didn't say we hadn't
22 beaten it to death.

23 **DR. ZIEMER:** No, he had pointed out that the
24 difference between eight and ten is one refers
25 to family member interviews and the other

1 referred to the energy employee.

2 **MS. MUNN:** But we had discussed that and had
3 concluded that the wording that we were going
4 to use to close eight would cover --

5 **DR. ZIEMER:** Nine and ten.

6 **MS. MUNN:** -- nine and ten.

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

8 **MS. MUNN:** So let's look at 11 before we
9 take a comfort break.

10 **MR. HINNEFELD:** Okay, number 11 that 7/3/08,
11 the last, the lowest listed one on the page,
12 was that was my comment to Arjun to try to
13 clarify. And then he responded on 7/15. So
14 it appears above our comment. And he points
15 out that this finding relates to findings
16 number four and eight on page 208 of their
17 report.

18 So while the statement of the finding
19 as it existed in the database just referred to
20 the page number for the checklist, Arjun says
21 that's supposed to relate to these two other
22 findings in the summary finding section. And
23 so that's that discussion. That was the
24 discussion we had, our e-mail exchange between
25 the last work group meeting and this one.

1 With respect to number 11, if I can
2 summarize -- and if I miss this, Arjun, please
3 help me out.

4 **DR. MAKHIJANI (by Telephone):** Sure.

5 **MR. HINNEFELD:** My reading of finding number
6 four is that, finding number four speaks again
7 to the disadvantage of survivor claimants and
8 recommends that a coworker interview be
9 required in the instance of a survivor claim
10 with the attempt to try to find someone akin
11 to an EE claimant, you know, an EE claimant
12 who was actually on the work site actually
13 doing what he did, try to find somebody akin
14 to them and make a requirement to do a
15 coworker interview for a survivor claimant.
16 That's number four.

17 And number eight I believe also speaks
18 to the level of preparation about the -- and
19 specific knowledge on the part of the
20 interviewers. Did I summarize those okay?

21 **DR. MAKHIJANI (by Telephone):** Yeah, eight
22 is actually a summary of all the things we
23 said in regard to the difficulty being greater
24 for family member claimants.

25 **MR. HINNEFELD:** Right, and so this would

1 then be additional preparation for survivor
2 interviews on the part of the interviewer.

3 **DR. MAKHIJANI (by Telephone):** Yeah, there
4 are other things in number eight. It's just a
5 summary list of bullet points, stuff about
6 closing interviews and the health physicist
7 should be present, in finding eight in the
8 original report on page 211. Yeah, I think
9 finding four is as you said.

10 **MR. HINNEFELD:** And I guess from our
11 discussion so far we felt all along that
12 coworker or fellow employee, fellow worker
13 interviews we want to do those when we don't
14 have enough information otherwise, and in most
15 cases we feel like we do. Consequently, we
16 don't feel like we should necessarily go do
17 coworker interviews whenever we have a
18 survivor claimant.

19 We think that we have in almost all
20 cases enough information anyway and why add
21 that because that's a significant increase in
22 the amount of work necessary to complete
23 coworker interviews for every survivor
24 claimant because about half our claims are
25 survivor claimants.

1 **DR. ZIEMER:** Unless you have the issues that
2 Larry raised about privacy of the claimant
3 itself vis-a-vis the coworkers.

4 **MS. MUNN:** Arjun?

5 **DR. MAKHIJANI (by Telephone):** Yes. I think
6 we've discussed the issue of coworkers and
7 some language has been suggested and NIOSH is
8 going to revise that language so we can review
9 it at that time.

10 **MS. MUNN:** So item 11 --

11 **DR. ZIEMER:** It's basically the same issue.

12 **MR. HINNEFELD:** Yes, it's largely the same
13 issue as the earlier discussion about coworker
14 interviews and letting people know whether
15 we're going to do them or not, what kind of
16 expectation do they have.

17 **DR. MAKHIJANI (by Telephone):** Yeah, and
18 when I reviewed it in writing these responses
19 to you, Stu, I did find that some, because of
20 the way the checklist was organized, and then
21 we did findings on top of the checklist, there
22 was a fair amount of repetition as you had
23 noted so some of these things keep popping up
24 because there was repetition in the original
25 finding.

1 **MS. MUNN:** So may we close this with the
2 understanding that it is being addressed?

3 **DR. MAKHIJANI (by Telephone):** Well, I
4 thought we were going to put it in abeyance
5 because NIOSH was revising the language. Now
6 if we don't want to revisit the language, you
7 can close it.

8 **MS. MUNN:** All right, my concern is, is it
9 in abeyance and going to require additional
10 language on this item, or is it in abeyance
11 awaiting language on other preceding items?
12 That's my concern.

13 **DR. MAKHIJANI (by Telephone):** It's a
14 duplication of the preceding items. We
15 already discussed that, and I understood Stu
16 to say they're going to revise the language.
17 And this is essentially the same thing.

18 Am I misunderstanding that, Stu?

19 **MR. HINNEFELD:** No, I think you're right. I
20 think it's number seven. I'm trying to sort
21 out which one it was. I think it's finding
22 number seven.

23 **MR. MARSCHKE (by Telephone):** I agree with
24 you, Stu. I think it's number seven as well.

25 **MR. HINNEFELD:** Okay.

1 **DR. MAKHIJANI (by Telephone):** Yes,
2 unfortunately, this is a little bit of a
3 duplication. I'm sorry about that, but there
4 was some duplication in the original.

5 **MR. HINNEFELD:** So that one will be
6 addressed in finding seven.

7 **MS. MUNN:** Good, in abeyance for now.

8 **MR. MARSCHKE (by Telephone):** I think one of
9 the reasons there's duplication, Arjun, is
10 because we took three procedures, and comments
11 from three procedures and put them together
12 into one procedure.

13 **DR. MAKHIJANI (by Telephone):** Yeah, we also
14 used the checklist. Now, we did the same
15 thing, you know, we didn't have to go to the
16 OMB, but we had to go to the Board to revise
17 our checklist. And we thought instead of
18 dragging things out we'd use the DR checklist
19 for a procedure review, and it didn't really
20 work too well.

21 **MS. MUNN:** No, it seldom does.

22 **DR. MAKHIJANI (by Telephone):** And some of
23 the problems arose from that.

24 **MR. HINNEFELD:** And so in order not to miss
25 any findings, the way the report was written

1 when the list of findings was compiled, they
2 would pick a finding off a checklist and then
3 they would pick the findings as they were
4 expressed later on, and so as a general rule
5 the checklist, the later on information just
6 supplemented what was on the checklist.

7 **DR. MAKHIJANI (by Telephone):** And we said
8 the same thing in different ways and so we got
9 some confusion unfortunately introduced in the
10 process.

11 **MS. MUNN:** Well, that's one of the things I
12 hope that we can achieve by going through
13 these one by one, is diminishing this
14 staggering number of items that we have down
15 to a handful that address with more
16 specificity the concerns that we have.

17 **DR. MAKHIJANI (by Telephone):** I believe,
18 Ms. Munn, there are a handful right now.

19 **MS. MUNN:** Before we address item 12, let's
20 take a no longer than 15 minute break. Be
21 back at 3:15.

22 (Whereupon, a break was taken from 3:00 p.m.
23 until 3:15 p.m.)

24 **MR. KATZ:** This is the Advisory Board on
25 Radiation Worker Health, and it's the

1 Procedures work group. And we're just
2 starting back up after a break.

3 **MS. MUNN:** We're starting with PROC-0012,
4 correct?

5 **MR. HINNEFELD:** PROC-0090, finding 12.

6 **MS. MUNN:** Oh, I'm sorry, PROC-0090, finding
7 12.

8 **MR. HINNEFELD:** And this has to do with the
9 knowledge of the interviewers, the facility
10 knowledge of the interviewers.

11 **MR. ELLIOTT:** Somebody doesn't have their
12 phone on mute, or is it feedback in here?

13 **MS. MUNN:** Hold on just a moment. We had an
14 interference problem.

15 Go ahead, Stu.

16 **MR. HINNEFELD:** Okay, I believe this is
17 essentially the same as the other earlier
18 findings about the facility-specific knowledge
19 of the interviewer.

20 **MS. MUNN:** It appears to me to be.

21 Arjun, are you back?

22 (no response)

23 **MS. MUNN:** Arjun isn't back so we can't get
24 his buy-in, I guess.

25 Steve, are you there?

1 (no response)

2 **MR. HINNEFELD:** Could be they gave up.

3 **DR. ZIEMER:** We're not on mute, are we?

4 **MR. KATZ:** We're not on mute.

5 **DR. ZIEMER:** Mark or Mike still there?

6 **MR. KATZ:** Is anyone on the line?

7 **MR. GIBSON (by Telephone):** Yeah, this is
8 Mike. I'm here.

9 **MR. KATZ:** I think maybe we're a little
10 early.

11 **MS. MUNN:** Two minutes. Two minutes early.

12 Let's see if anything other than item
13 12, item 13.

14 **DR. ZIEMER:** Is 12, did we decide that's the
15 same as eight through ten?

16 **MS. MUNN:** Well, since our folks are not
17 back here yet so that we can ask them that.
18 I'm just asking us to take a look. It appears
19 that 12 and 13 --

20 **MR. HINNEFELD:** Twelve takes a little
21 different approach here when you read the bulk
22 of it in the report. It advocates outreach to
23 communities of claimants in advance of the
24 CATIs, the need to make the CATI less
25 threatening and more complete site knowledge

1 on the part of the interviewer. So there's
2 kind of something, the second and third parts
3 of that I think have been addressed.

4 The first part advocates outreach to
5 communities of claimants. So this I think was
6 in the context of, I know Denise was one of
7 the people who was interviewed for this
8 review, and at the time there were a lot of
9 people, Mallinckrodt employees, who were
10 awaiting, were being scheduled for CATIs and
11 Denise was getting a lot of calls, can you
12 help me with this.

13 And the comment was in these
14 situations where you have these pockets of
15 claimants, where you're going to be doing a
16 large number of interviews, perhaps it would
17 be worthwhile to go do an outreach to just
18 kind of familiarize it with the CATI process.
19 We've never really done that, you know, done
20 outreach for the purpose of CATI process. And
21 it's sort of moot at this point anyway because
22 like Larry mentioned earlier, the days with
23 large pools of claims ready to be interviewed
24 from specific sites are pretty much done.

25 We interview them, the interviews are

1 fairly current, the CATI interviews are fairly
2 current. There's not a really long wait
3 between the time a case is referred to us and
4 the time the interview's done. And so they're
5 done just as they come in. So you don't
6 really have this opportunity for outreach out
7 there any more to go to these pools of
8 uninterviewed (sic) claimants.

9 So to me since that really doesn't
10 seem to be in the cards any more at this point
11 in the program, and the other two parts of it
12 I think have been addressed to make the CATI
13 less threatening was, I think, addressed by
14 our change in the letter to the claimant and
15 more complete site knowledge by the
16 interviewer is subject of several other
17 findings that we've already talked about.

18 **MS. MUNN:** Hopefully, when Arjun and Steve
19 get back --

20 **DR. MAKHIJANI (by Telephone):** Yeah, I'm
21 back.

22 **MR. MARSCHKE (by Telephone):** We're both
23 back.

24 **MS. MUNN:** Oh, good you're back. Did you
25 hear the bulk of the comment?

1 **DR. MAKHIJANI (by Telephone):** Unfortunately,
2 I did not. I didn't realize I was late.

3 **MS. MUNN:** I started two minutes early. You
4 can blame me.

5 **MR. HINNEFELD:** Arjun, what I said about
6 number 12 was, number 12, while the summary
7 statement on the database talks about the
8 interviewers are trained to be sensitive but
9 do not require facility knowledge, and this
10 apprehension that the procedure's not
11 addressed, as I read the finding in the
12 report, not the summary statement here, it
13 seemed to me that there was an advocacy in
14 this write up for conducting outreach-type
15 meetings to communities where there are a
16 large number of claimants to be interviewed.

17 I think this came up in the context of
18 a discussion with Denise Brock at the time.
19 And she had received a lot of calls or a lot
20 of Mallinckrodt claimants who were being
21 scheduled for interviews. She was getting a
22 lot of calls when people were concerned about
23 doing a good job in the interview. And so I
24 believe the comment stated that it would be a
25 good idea to go to these communities where you

1 **MS. MUNN:** Yes.

2 **MR. HINNEFELD:** The procedure does not
3 require an interviewer ^ to elicit site-
4 specific data. Again, I think this is another
5 statement of the finding earlier about the
6 preparation of the interviewer for the
7 interview in order to be as helpful as
8 possible. And I think we've kind of talked
9 that one quite a bit as well.

10 **DR. MAKHIJANI (by Telephone):** Yep, I agree.

11 **MR. HINNEFELD:** I don't know if that's
12 closed or addressed in another finding.

13 **MS. MUNN:** Yes, it's closed, captured
14 elsewhere.

15 Item 14.

16 **MR. HINNEFELD:** Interview contains numerous
17 gaps. This is what we talked about at some
18 length earlier on. This finding refers to the
19 page or so of specific recommendations about
20 what to do on the CATI form, which I think
21 would appropriately be in abeyance as we are
22 going about revising that form for the reason
23 of a re-approval.

24 And so I forget where we ended up with
25 that. I think if I recall, the work group was

1 going to look through the recommendations in
2 the report and maybe provide ones to us they
3 thought should be particularly important to
4 address.

5 Was that where we were with that?

6 **MS. MUNN:** Well --

7 **DR. ZIEMER:** Discuss it at the next meeting.

8 **MS. MUNN:** -- it was, I hope, that NIOSH
9 would also be putting together a list of
10 recommendations that they had had up to this
11 point that they were willing to consider in
12 terms of potential revisions to the CATI.

13 And I had asked the members of this
14 work group to go through the report and this
15 procedure again and to list individually
16 concerns that they had with respect to what
17 might be added to. And that that would be our
18 primary, our first topic at our meeting in
19 September at the end of the Board meeting
20 since that fits your schedule for, if we can
21 come to some conclusion at that work group
22 meeting with respect to recommendations from
23 NIOSH.

24 **MR. HINNEFELD:** So you would like us then to
25 provide essentially our take on these

1 recommendations in advance of --

2 MS. MUNN: Yes.

3 MR. HINNEFELD: -- (indiscernible).

4 MR. KATZ: Our plans for changes.

5 MS. MUNN: The ones that you already have.

6 MR. HINNEFELD: -- and receive the proposed
7 revisions.

8 MS. MUNN: Yes.

9 DR. ZIEMER: Isn't this part of the issue as
10 to seeing the work product in advance of your
11 submission to OMB?

12 MR. KATZ: First, there's nothing to, if you
13 want to see our plans for how we're going, our
14 basic plans for how we're going to change the
15 CATI interview --

16 DR. ZIEMER: We don't have to approve it,
17 but we need to see it.

18 MR. KATZ: -- don't have to approve it, but
19 if that will help you then in making any
20 further recommendations as to what you might
21 have --

22 MR. HINNEFELD: I can tell you some of the
23 recommendations --

24 MR. KATZ: -- add to the --

25 MR. HINNEFELD: -- have just been adopted in

1 our recommendation. There's no question about
2 overtime work that's in there now, in the
3 proposed revision. There's this statement
4 here there's no separate form for coworkers,
5 when, in fact, there is one. There's no
6 question about in vivo monitoring, and that's
7 been added. So there's some that we just
8 said, we just took at face value and put in
9 there.

10 **MS. MUNN:** And using that as a skeleton for
11 this work group to base any additional
12 information on that would be the topic of our
13 conversation when we met in September.

14 **DR. MAKHIJANI (by Telephone):** Ms. Munn, if
15 we know the items that NIOSH is already
16 incorporating, it might be the subject of a
17 brief working group call or technical call
18 between NIOSH and us that we can make notes
19 and communicate to the working group if NIOSH
20 wants closure on this before. I'm a little
21 concerned that we should not slow down NIOSH
22 in any way or kind of have comments after
23 NIOSH's deadline.

24 It might be better if we got all the
25 comments in before, well before NIOSH's

1 deadline for submittal. At least that's the
2 way it seemed to me, but maybe Larry, it
3 doesn't matter to NIOSH.

4 **DR. ZIEMER:** We can do the public comment
5 period if --

6 **DR. MAKHIJANI (by Telephone):** Okay, that's
7 fine.

8 **DR. ZIEMER:** -- the other thing on this is
9 probably we need to make sure that Mike
10 Gibson's Worker Outreach group also gets the
11 same material.

12 **DR. MAKHIJANI (by Telephone):** Okay, fine.

13 **MS. MUNN:** Mike will have it.

14 **DR. ZIEMER:** Mike will have it. Mike, you -
15 - anyway, right, from us. So it's part of the
16 same thing that was raised earlier.

17 **MS. MUNN:** Are we in agreement on item 14
18 then, in abeyance? Will be addressed by the
19 revisions.

20 (no response)

21 **MS. MUNN:** Item 15.

22 **MR. HINNEFELD:** The procedures do not
23 provide for explanation if information is not
24 used. I think this is a good point. I think
25 it's, you can't really put that in the

1 procedure for CATIs though because at the time
2 the CATI is done, you don't know if the
3 information in the interview is going to be
4 used or not.

5 What we have done, independent of any
6 changes in the CATI procedures, we do now
7 address this in the dose reconstruction. And
8 that specifically any incident information
9 that the claimant provides is addressed in
10 their dose reconstruction report whether it's
11 relevant to dose reconstruction or not even to
12 the point of when they speak about non-
13 radiological exposures.

14 We say, we address that in the dose
15 reconstruction. It was just a comment that
16 this doesn't affect the radiation exposure.
17 So I believe that's been done. I don't know
18 if I can show you a procedure that requires
19 them to do it, but I can tell you it's done
20 because it's one of the things we check for.

21 **MS. MUNN:** SC&A, can we close this?

22 **DR. MAKHIJANI (by Telephone):** Yeah, I
23 believe so, yeah.

24 **MS. MUNN:** Work group members, closed?

25 **DR. ZIEMER:** Yes.

1 **MS. MUNN:** Item 16.

2 **MR. HINNEFELD:** This is the one I talked
3 about earlier, the DOE file, the exposure
4 history file is not required to be with the
5 interviewer during the interview. And, in
6 fact, we do not wait for that response
7 necessarily to schedule the interview.
8 Sometimes it will be there. Sometimes it
9 won't. But we don't necessarily ask the
10 interviewer to make that a part of the
11 (indiscernible).

12 There is a fundamental difficulty
13 here, and that is interpreting the exposure
14 history. That's the fundamental difficulty
15 because exposure histories that you get from
16 the various sites are not always clear. Until
17 you've looked at a number from that site, it's
18 not always clear what you've got. At Hanford
19 you get the same thing in two or three
20 different formats.

21 So it's a little difficult to
22 interpret what you're looking at. Usually, it
23 takes a health physicist some instruction and
24 a few times looking at a particular site's
25 reports to really know what he or she is

1 looking at. So if we have the exposure
2 history open in front of the interviewer, I
3 don't know that that by itself sufficiently
4 helps anything.

5 So then the question would become
6 would it be helpful during the interview for
7 the interviewee to know what kind of exposure
8 record we received from them about them so
9 that they could at that time say, well, that
10 doesn't sound right. I know I wore a badge
11 the whole time I worked there, or something to
12 that effect. I believe that might be the
13 intent.

14 Is that the intent, Arjun?

15 **DR. MAKHIJANI (by Telephone):** It is the
16 intent.

17 **MR. HINNEFELD:** Okay, so now that is a more
18 complicated thing than just having the
19 response available to the interviewer.

20 **MS. MUNN:** Are we not then doing two things?
21 First, we're implying that you won't do a CATI
22 until you have this information.

23 **MR. HINNEFELD:** That would be one aspect.

24 **MS. MUNN:** I don't think we want to --

25 **MR. HINNEFELD:** Well, I don't know what kind

1 of work redesign that means.

2 **MS. MUNN:** And the second thing would be, is
3 this not in the arena of dose reconstruction,
4 not CATI.

5 **MR. HINNEFELD:** Well, the opportunity,
6 during the interview with the worker, it would
7 give you the opportunity at that time before
8 you do the dose reconstruction for the worker
9 to say they didn't give you all my exposure
10 history because I know I wore a badge that
11 whole time, and we could make additional
12 inquiry.

13 Because right now we would go ahead
14 and do the dose reconstruction, we would send
15 the person a dose reconstruction report, and
16 they would say, wait a minute. You say I was
17 monitored for these years here, but I was
18 monitored for my entire employment. And so at
19 that point, at close-out interview time, is
20 then when we go back to the Department of
21 Energy and see if there's some reason, you
22 know, have them look again if there's some
23 other way to look to try to resolve that
24 issue.

25 **MS. MUNN:** Arjun and Steve --

1 **DR. MAKHIJANI (by Telephone):** Yeah, I think
2 if I got the gist of Stu's comment right that
3 this is better dealt with at the close out
4 interview.

5 **MR. HINNEFELD:** That's when we deal with it
6 now. At that point then a health physicist in
7 the normal course of things has looked at the
8 file, has interpreted the exposure history
9 report and has, writes in the dose
10 reconstruction report, I believe, that
11 monitored from these dates to these dates.
12 And so during the close out interview that's
13 discussed with the claimant.

14 If the claimant says that's not right,
15 I was monitored more than that or that's not
16 right, I was never monitored, then there's an
17 issue that has to be resolved during the close
18 out interview process before the dose
19 reconstruction can move forward.

20 **DR. ZIEMER:** And that interview is done by -
21 -

22 **MR. HINNEFELD:** That's done by the same
23 interviewers, but in this instance I believe
24 it would be flagged by either a reviewer or
25 even to an HP about what do we do about this

1 CATI.

2 **DR. ZIEMER:** So it's just a little later in
3 the process when they actually had a chance to
4 gather the dose information and do the first
5 cut on the DR?

6 **MR. HINNEFELD:** Yes. It's after a draft
7 dose reconstruction is prepared.

8 **DR. MAKHIJANI (by Telephone):** Now, I can't
9 remember what the status of our resolution is
10 regarding all the stuff around the presence of
11 a health physicist and the reviewed by a
12 health physicist of the material offered
13 during the closing interviews and how all that
14 is handled. I agree that PROC-0090 is not the
15 right place to review all that, but I think
16 it's all still open under the closing
17 interview.

18 **MR. HINNEFELD:** I mean, this could be
19 transferred to -0092 if you wanted to do that
20 and with the idea that --

21 **DR. MAKHIJANI (by Telephone):** Yeah, I think
22 that that would be useful. It would be useful
23 to transfer it to -0092.

24 **MR. HINNEFELD:** And I do know that ORAU now
25 spends additional effort with dose

1 reconstructors dealing with interviewers and
2 interview reviewers to make sure that there's
3 more a steadier flow of information among
4 those people. And I think the interviewers
5 are probably asking the health physicists more
6 for interpretation at close out interview time
7 than they were at the time when you reviewed
8 close out interviews.

9 **DR. MAKHIJANI (by Telephone):** Okay.

10 **MR. HINNEFELD:** As a result of that as a
11 matter of fact. So there's been some movement
12 there, but since we're not on that, and I
13 don't think we'll get to it today, I don't
14 think I'll last that long, I suspect that
15 maybe just saying that this would be one
16 that's better suited for the close out
17 interview aspect of things might be the best
18 way to go.

19 **MS. MUNN:** So our final comment would be, if
20 the work group agrees, that this will be dealt
21 with at the close out and the disposition is
22 transferred to PROC-0092. Is that acceptable
23 to all?

24 **DR. ZIEMER:** Yes.

25 **DR. MAKHIJANI (by Telephone):** Agreed.

1 **MS. MUNN:** Work group members?

2 **DR. ZIEMER:** Yes.

3 **MR. GIBSON (by Telephone):** Yes, sounds
4 fine.

5 **MS. MUNN:** Item 17.

6 **MR. HINNEFELD:** This again is the, well,
7 it's similar to the earlier one. When you
8 read the whole write up in the report, it
9 advocates better preparation of the
10 interviewer. It recommends requiring coworker
11 interviews for survivor claimants and/or a
12 better explanation as to why coworkers weren't
13 interviewed.

14 I think that part we can address in
15 the dose reconstruction by saying this is the
16 information used in your dose reconstruction
17 and coworkers were not interviewed because
18 sufficient information was available. Now,
19 something like that can be done in the dose
20 reconstruction. And then the other things
21 that we talked about.

22 **DR. ZIEMER:** Eight through ten would cover
23 the rest of that, wouldn't it?

24 **MR. HINNEFELD:** Yes.

25 **MS. MUNN:** Nothing new in here that we

1 haven't already discussed, is there?

2 **DR. MAKHIJANI (by Telephone):** Yeah, no,
3 you're right, Ms. Munn. That's right.

4 **MS. MUNN:** So this is covered by the
5 language that's going to be inserted in item
6 eight.

7 Is this in abeyance or closed?

8 **DR. MAKHIJANI (by Telephone):** I think it's
9 simply transferred. It's a duplication of,
10 you may say it's a duplication of other items
11 now covered, something like that.

12 **MS. MUNN:** Well, but we're not transferring
13 it to another procedure.

14 **MR. HINNEFELD:** This is addressed in a
15 different finding.

16 **MS. MUNN:** We're addressed in a different
17 finding. So that would close it.

18 Item 18, insufficient (indiscernible).

19 **MR. MARSCHKE (by Telephone):** This is the
20 same as 14.

21 **DR. ZIEMER:** Yeah.

22 **MS. MUNN:** Is the final statement covered by
23 item 14?

24 **DR. ZIEMER:** Fourteen, the CATI gaps are --

25 **MR. HINNEFELD:** The CATI gaps are 14. The

1 interviewer training is eight through ten, I
2 believe.

3 **MS. MUNN:** Covered by items which we are
4 going to all put under item eight and 14 and
5 closed, correct?

6 (no response)

7 **MS. MUNN:** Item 19.

8 **MR. HINNEFELD:** This is the one about
9 requiring coworker interviews for survivor
10 claimants and for also, I guess, maybe about
11 being more clear and what if coworkers weren't
12 interviewed. I think it's a repeat of another
13 one.

14 **DR. MAKHIJANI (by Telephone):** I agree.

15 **MS. MUNN:** Covered by eight, closed.
16 Item number 20.

17 **MR. HINNEFELD:** I think this speaks to the
18 CATI itself. Yeah, that's the way it looked
19 to me was this seemed to be addressed in
20 finding 14 and finding eight, so I think it
21 has to do with the gaps in the CATI, and, I
22 think, the training of the interviewers.

23 **MS. MUNN:** And the SC&A follow up says --

24 **MR. MARSCHKE (by Telephone):** Section 5.5,
25 which is the gaps in the CATI, addressed in

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MS. MUNN: It was covered by item 14, right?

MR. MARSCHKE (by Telephone): Yes.

MS. MUNN: Closed.

Item 21, definitions.

MR. HINNEFELD: This has to do with definitions in -- let's see, this would have been the review procedure and what does it mean when someone reviews the interview for completeness and technical content. And it kind of originates in the fact that the reviewer, the interview reviewers, are not necessarily health physicists.

And that's kind of behind the nature of some of these findings in the review. When they say it's not technically, you know, when it's technically content and complete, shouldn't that be a health physicist making that judgment that, okay, this is a complete interview.

Well, the current work process is that the health physicist, when he gets the assignment to do the dose reconstruction, at that point then looks at the CATI and makes whatever judgment is necessary about the

1 completeness of the CATI and is there
2 something here that needs to be resolved
3 before you go ahead. I believe that's the
4 work process.

5 So I think there was -- and I think
6 actually these reviewers, interviewer
7 reviewers, were actually called HP reviewers
8 in the procedure. That certainly gave rise to
9 this confusion because they're not HPs. I
10 think that was the origin of the comment.

11 You have these people you call HP
12 reviewers who are really not HPs. And when
13 you say they're going to review this for
14 completeness and technical content, since they
15 don't really do dose reconstructions, how do
16 they know it's complete and the technical
17 content's okay.

18 So I think there's probably a wording
19 change here that has to be made. I think it's
20 actually in the upcoming revision to PROC-0090
21 that more clearly defines the role of these
22 people and the purpose of this review and more
23 thoroughly describes the use of, you know,
24 that the dose reconstructor who actually then
25 gets assigned to do the dose reconstruction is

1 the one who actually does the evaluation of
2 the CATI to determine if sufficient
3 information is available or whether more has
4 to be sought. So I think that will be changed
5 in their change procedure which would put this
6 one in abeyance because it depends on a
7 revision to the procedure.

8 **MS. MUNN:** So procedure revision will expand
9 wording, right?

10 **MR. HINNEFELD:** Yes.

11 **MS. MUNN:** In abeyance. Any objection?

12 **DR. ZIEMER:** Looks good.

13 **MS. MUNN:** Item 22, this is the site profile
14 about closing (indiscernible).

15 **MR. HINNEFELD:** This addresses a couple
16 things. There's no reference to the site
17 profile. I think -- and this is during the
18 review of the interview, so I think that maybe
19 has to do with does this review consider
20 consistency of the CATI with the site profile.
21 I'm not exactly sure about that.

22 But it also, additional findings, the
23 purpose of the finding are that there's no
24 reference to the close out interview and to
25 the claimant. In other words the claimant's

1 not told that you'll have another opportunity
2 after we draft the dose reconstruction. After
3 what you've told us today, you'll have another
4 opportunity to provide us input at the time we
5 do the close out interview. So that was
6 something that could probably be addressed in
7 a procedure.

8 And then the final part of it is that
9 the exposure history isn't addressed with the,
10 you know, as part of the review. You know,
11 the exposure history isn't balanced against
12 what the person said to see if the
13 recollection of their monitoring is the same
14 as the history we got. And, again, as our
15 current work process goes that's ^ that's done
16 by the dose reconstructor, not by the HP
17 reviewer.

18 It could be the origin of this comment
19 at this point partly stems from the fact that
20 these people called HP reviewers, and if you
21 have an HP reviewer looking at it at that
22 time, shouldn't they be making these
23 judgments. In fact, they're not really HPs
24 and so they're being asked to do other things
25 rather than that, and the dose reconstructor

1 is the one who's called on to do those
2 judgments when he's assigned to do the dose
3 reconstruction.

4 So I don't know. Arjun, is there
5 more you wanted to talk about on this one?

6 **DR. MAKHIJANI (by Telephone):** No, no, I
7 think this is also being dealt with under
8 0092.

9 **MR. MARSCHKE (by Telephone):** Is this, the
10 initial NIOSH response refers them to,
11 actually refers to what is now PROC-0090-dash-
12 6 issue. And we basically, I think we're
13 going to agree to transfer that to -0092.

14 **DR. MAKHIJANI (by Telephone):** Yes.

15 **MR. MARSCHKE (by Telephone):** That would be
16 consistent.

17 **MS. MUNN:** Is that what we agreed on six?

18 **MR. HINNEFELD:** Yes, that's what we agreed
19 on six.

20 **MR. MARSCHKE (by Telephone):** That's what
21 SC&A and NIOSH agreed. I don't know that
22 we've gotten the working group to agree yet.

23 **MS. MUNN:** Well, yes, I thought we had.

24 **MR. HINNEFELD:** I think you did.

25 **MS. MUNN:** Yeah, we did.

1 **MR. HINNEFELD:** Because that was the first
2 one after the four closed ones.

3 **MS. MUNN:** So this would be covered by,
4 yeah, it's covered by item six which transfers
5 it to PROC-0092 which would make this one
6 closed. Any disagreement?

7 (no response)

8 **MS. MUNN:** Very good. Item number 23, no
9 explicit connection --

10 **MR. HINNEFELD:** No explicit connection to
11 review information in closing interview
12 provided. I believe this is a suggestion that
13 at the time that this is done, at the time the
14 CATI is done, you should not yet tell the
15 claimant specifically so it would be in the
16 procedure or in the script or somewhere that
17 they will receive, after they receive the
18 draft dose reconstruction based on the
19 information they have, we will talk to them
20 about it before it goes any further in the
21 close out interview, and they'll have the
22 opportunity then to see did we get their
23 information appropriately captured in the dose
24 reconstruction --

25 **MS. MUNN:** This is the same --

1 **MR. HINNEFELD:** -- and tell them
2 specifically that. I think we've talked about
3 this before.

4 **MS. MUNN:** The same item we talked about
5 earlier today.

6 **MR. HINNEFELD:** I think we have. I'm a
7 little hard pressed right now to figure out
8 which one it is.

9 **MS. MUNN:** Yeah, I am, too, but we agreed
10 that this was one of the language changes that
11 we were considering for the new potential CATI
12 changes.

13 **MR. HINNEFELD:** Either in the CATI or in the
14 procedures.

15 **MS. MUNN:** That will be addressed elsewhere
16 which makes it in abeyance, right?

17 **MR. HINNEFELD:** I believe so.

18 **MS. MUNN:** Any disagreement?

19 (no response)

20 **MS. MUNN:** Item 24.

21 **DR. ZIEMER:** This is the same one as 21,
22 completeness and technical content?

23 **MR. HINNEFELD:** I believe so.

24 Does that sound right to you, Arjun,
25 that this is --

1 **DR. MAKHIJANI (by Telephone):** Right.

2 **MR. HINNEFELD:** -- the same as 21?

3 **MS. MUNN:** So we said procedure revision
4 will expand wording. So I'm going to say it's
5 covered by item 21, closed.

6 Any objections?

7 (no response)

8 **MS. MUNN:** Item 25, reviewer qualifications.

9 **MR. HINNEFELD:** I believe in this instance
10 we agree that these reviewer qualifications
11 since they were called HP reviewers, I think
12 we're changing that name actually in the
13 revision of the procedure. So that needs to
14 be spelled out a little better in terms of
15 what these personnel do and what they're
16 expected to accomplish when their
17 qualifications ^.

18 **MS. MUNN:** And so where will that be done?

19 **MR. HINNEFELD:** That'll be in PROC-0090.

20 **MS. MUNN:** PROC-0090 revision. In abeyance.

21 Agreed?

22 **DR. MAKHIJANI (by Telephone):** Agreed.

23 **MR. HINNEFELD:** I think everybody's numb,
24 Wanda.

25 **MS. MUNN:** We may have to disband before

1 we're finished.

2 Item 26, process is implicitly biased
3 against family member claimants.

4 **DR. MAKHIJANI (by Telephone):** Could I
5 explain that a little bit? We've had a lot of
6 -- especially the use of the word biased -- we
7 had a lot of findings and observations
8 regarding the difficulties that were
9 confronted by survivor claimants especially
10 and elaborated on that quite a bit. And I
11 remember John and I actually -- I don't know
12 if John Mauro's on the line, but John and I
13 had discussed at great length the use of this
14 particular term.

15 The reason it is in there is that it
16 was in the checklist originally for the dose
17 reconstruction. This is one of those things
18 that there was a Board-approved form that
19 required us to say whether there was bias in
20 the process or not and so it was very explicit
21 in the approved form.

22 And so just to provide some context,
23 that's how this word got to be used. But
24 generally the thrust of it was that there were
25 a number of situations where survivor

1 claimants were at a disadvantage, and it
2 related to the coworker interviews and
3 insufficient preparation of the interviewers
4 and so on.

5 **MR. HINNEFELD:** So if it's the preparation
6 of the interviewer, we have addressed that.

7 **DR. MAKHIJANI (by Telephone):** Yeah, we
8 addressed coworker interviews as well, so I
9 think the details as it concerns the use of
10 the term biased have been addressed in other
11 places.

12 **MR. HINNEFELD:** Okay.

13 **MR. MARSCHKE (by Telephone):** Well, 17,
14 again, if you look at the initial response,
15 17-1 refers us back to PROC-0020 -- issue 20,
16 PROC-0090, issue 21, which we said is going to
17 be in abeyance. We're going to make wording
18 changes there. And PROC-0003-dash-5 is now
19 PROC-0090-dash-8, which we also said was in
20 abeyance. And PROC-0005-dash-12 is PROC-0090-
21 dash-17, which we said was addressed in eight.

22 **MS. MUNN:** We're expecting that item eight
23 to address a wide range of other items here
24 which were duplicative, anticipating language
25 change that would cover all of those.

1 **MR. HINNEFELD:** Well, when you say all of
2 those, I mean, many times it's a restatement
3 of the same thing.

4 **MS. MUNN:** Yes, it is. The question is
5 whether that language is anticipated to be
6 inclusive of the issues raised here in 26.

7 **MR. HINNEFELD:** Well, Arjun described that
8 the word biased comes in from the checklist,
9 and what they were really commenting on was
10 the preparation of the interviewer which is
11 being addressed.

12 **DR. MAKHIJANI (by Telephone):** And also
13 regarding the coworker interviews, the
14 differential of information and so on.

15 **MR. HINNEFELD:** The requirement for a
16 coworker interview when it's a survivor
17 claimant which is being addressed in number
18 14.

19 **DR. MAKHIJANI (by Telephone):** Yeah, the
20 elaboration of this -- just so people have the
21 context -- this was the reason that we had
22 that list of bullet points. I don't remember
23 now what the finding number was. I think it
24 was finding eight. Let me try to find it
25 here. It was finding eight. We had a list of

1 bullet points, the ^ procedures are
2 considerably greater for family member
3 claimants than for employee claimants and we
4 covered this earlier.

5 It was a summary of items that we
6 already talked about, and this was the detail
7 that was provided to justify or elaborate on
8 the use of the term biased in the checklist.
9 And then the checklist term got transferred to
10 the matrix as well.

11 **MS. MUNN:** And does this change the
12 checklist wording?

13 **DR. MAKHIJANI (by Telephone):** No, I don't
14 think, well, the checklist wording is in the
15 original 2005 report so I don't imagine it
16 changes the checklist wording. It's just I
17 think we've dealt with this in my opinion in
18 the other specific items that we covered.

19 **MS. MUNN:** So we can say addressed in item
20 eight and other PROC-0090.

21 **DR. MAKHIJANI (by Telephone):** I believe so.

22 **MS. MUNN:** And closed?

23 **MR. HINNEFELD:** Yes, it's addressed
24 elsewhere.

25 **MS. MUNN:** Closed.

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Agreed?

DR. MAKHIJANI (by Telephone): Yes.

DR. ZIEMER: Yes.

MS. MUNN: Item 27.

MR. HINNEFELD: I believe this really reflects the fact that an HP reviewer rather than a review by a dose reconstructor, HP reviewer is ^ a dose reconstructor. Like I said in our work process currently this review is done by the dose reconstructor when he or she gets the dose to reconstruct, they're assigned the case to reconstruct, they then make this judgment about the adequacy of the CATI and whether it would be beneficial to go back and try and get clarifying information. And so it's done at that point rather than earlier which you would probably expect would be done if it was, in fact, the dose reconstructor doing that HP review that the procedure talks about. We expect to address this by revising the PROC-0090 procedure and to be a little more clear about what the HP review, what was called the HP reviewer, but that isn't what's done there. So that's, we intend to revise the procedure to address

1 that. So I believe that puts it in abeyance.
2 But it's also the same as other findings that
3 we've already talked about these findings.

4 **MS. MUNN:** Right, and Arjun's follow-up
5 action finding down there indicates that it
6 really is finding nine issue.

7 **MR. HINNEFELD:** That's finding nine in the
8 SC&A report.

9 **MS. MUNN:** In the SC&A report, yeah.

10 **MR. HINNEFELD:** It's not finding nine on any
11 of the number --

12 **MS. MUNN:** I understand.

13 **MR. HINNEFELD:** -- in the database.

14 **MS. MUNN:** And that it's grammar. It's not
15 a part of the CATI follow-up procedure. So
16 our closing comment here would be concerns are
17 now addressed in revisions to PROC-0090.

18 **MR. HINNEFELD:** Yes, and we think it's
19 addressed in finding 21.

20 **MS. MUNN:** All right, finding 21 and closed.

21 Item 28. It's hard to see any
22 difference in that and what we --

23 **MR. HINNEFELD:** Yeah, we've already talked
24 about that. It's addressed in a couple of the
25 other findings we've talked about. At least

1 eight and maybe, I'm not sure it's claimant
2 dose records, but that's a little later.

3 **MS. MUNN:** So closed, correct? Agreed?

4 (no response)

5 **MS. MUNN:** Finding 29, completeness and
6 technical content, and the last word from SC&A
7 is they agree?

8 **DR. MAKHIJANI (by Telephone):** Yes, it's a
9 duplication.

10 **MS. MUNN:** It's a duplication.

11 **MR. HINNEFELD:** It was number, what, 24?

12 **MS. MUNN:** And they said referred to 24.

13 **DR. ZIEMER:** Twenty-four is the same as 21.

14 **MS. MUNN:** We said 24 was being covered by
15 item 21. So we can say item 21, okay?

16 **DR. MAKHIJANI (by Telephone):** Yeah.

17 **MS. MUNN:** And closed.

18 Can you believe we're at item 30, the
19 last one of PROC-0090? Reviewer's not
20 required to review the claimant DOE file. Can
21 we say that's correct? They're not required
22 to?

23 **MR. HINNEFELD:** It was under 16.

24 **DR. ZIEMER:** Well, the same as 16.

25 **MR. MARSCHKE (by Telephone):** Sixteen was

1 transferred to -0092. Or do we just want to -
2 -

3 **MS. MUNN:** I think it was transferred to -
4 0092, but we also covered it under 16, right?

5 **DR. ZIEMER:** Right, which was transferred to
6 -0092.

7 **MS. MUNN:** So if we say it's covered by 16,
8 then we can close it because 16 says it's
9 dealt with, close out and transferred to PROC-
10 0092.

11 **DR. ZIEMER:** Right.

12 **MS. MUNN:** Correct?

13 **DR. ZIEMER:** Correct.

14 **MS. MUNN:** So we can close this one.

15 We will look forward to see a new
16 updated listing on PROC-0090 when we get to
17 the beach.

18 As I understand we have covered all
19 the outstanding material in set one with this
20 exercise. If that is not the case, please
21 speak now.

22 **MR. HINNEFELD:** Well, we covered the open
23 ones.

24 **MS. MUNN:** Yes, the open ones.

25 **DR. ZIEMER:** Forty-eight others in abeyance?

1 **MS. MUNN:** Yes, we will have a few more in
2 abeyance here to finish this. But when this
3 is updated, we can get a better feel for where
4 we are.

5 **MR. MARSCHKE (by Telephone):** The ones that
6 are in abeyance, I guess I ask the question
7 have any of the procedures that they refer to
8 been updated so that, I mean, SC&A could go
9 back and look to see whether or not the
10 procedure has, the revised words, so that we
11 could maybe close out some of those 48 that
12 are in abeyance?

13 **MR. HINNEFELD:** I know OTIB-0008 and OTIB-
14 0010 have been revised. So I'm trying to pull
15 up the database now to show, so I can get
16 these on my screen. As I recall, OTIB-0008
17 and, ORAU OTIB-0008 and OTIB-0010 are in the
18 first group and showing in abeyance, those
19 have both been revised.

20 PROC-0006, there's one finding in
21 abeyance. That has been revised to Appendix
22 B, and Appendix B has been removed from PROC-
23 0006. I need to get the list up to see if I
24 can speak off the top of my head of any of the
25 others. So I'm working on it.

1 **MS. MUNN:** Steve, the Microsoft Excel list
2 that you sent us showing our total findings --

3 **DR. MAKHIJANI (by Telephone):** Would you say
4 that again? I'm on my cell phone now
5 unfortunately, and I'm having a little
6 trouble.

7 **MS. MUNN:** Oh, I'm sorry. I'm sorry. I was
8 just asking Steve about his Excel files that
9 he sent us which I believe was intended to
10 show all of the material we have in our
11 basket.

12 Is that not correct, Steve?

13 **MR. MARSCHKE (by Telephone):** Yes, that was,
14 that does show all the ones that were in the
15 basket, yes. It doesn't necessarily identify
16 which ones are with the first set.

17 **MS. MUNN:** Correct. I understand. I just
18 wanted to check with --

19 Nancy, have you taken a look at that
20 Excel sheet that Steve sent to us?

21 **DR. MAKHIJANI (by Telephone):** I'm sorry to
22 interrupt. I got cut off because my phone
23 battery ran out on me, and I had to reconnect.
24 Could I sign off? I presume we're completely
25 done with -0090 now.

1 **MS. MUNN:** We are completely done with PROC-
2 0090. We're not going to talk about it again
3 today I hope.

4 **DR. MAKHIJANI (by Telephone):** Thank you.

5 **MS. MUNN:** Thank you, Arjun, we appreciate
6 your help.

7 **MS. ADAMS:** In answer to your question, I
8 think I believe it matches the list.

9 **MS. MUNN:** Good. It's always comforting to
10 know that the two sets of data are tracking.
11 It is discomfoting to know that we have 224
12 open items and 64 in abeyance.

13 **MR. HINNEFELD:** Okay, I think I can give
14 some responses on these procedures in abeyance
15 now. Nancy was kind enough to give me a
16 printed out list of the ones that are in
17 abeyance. There's a finding from OTIB-0001
18 that has not been revised.

19 IG-0001 has been revised, but I
20 believe that the findings are shown in
21 abeyance either came from the second look at
22 IG-0001 or we determined in that second list
23 not to have been addressed by the revision of
24 IG-0001. IG-0001's been looked at twice. And
25 so I believe the ones in abeyance for IG-0001,

1 there's been no change to address those.

2 **MS. MUNN:** That was five, right?

3 **MR. HINNEFELD:** How many? These aren't
4 sorted so I don't know.

5 **MS. MUNN:** Oh, okay.

6 **MR. HINNEFELD:** I don't know how many there
7 are. There are findings from OTIB-0004,
8 revision two, at least one. There is a
9 revision after that. There is OTIB-0004,
10 revision three, but I don't know, you know,
11 this may be a situation like IG-0001, like the
12 later version was reviewed and determined that
13 the in abeyance finding from the earlier
14 version wasn't fixed in that revision.

15 Steve, do you know off the top of your
16 head on OTIB-0004?

17 **MR. MARSCHKE (by Telephone):** I'm just
18 looking up. Hang on just a second. OTIB-
19 0004, revision three, yes, we did look at that
20 one. And I think that's in the same category.
21 We must have --

22 **MR. HINNEFELD:** Must have left some open
23 that are in abeyance.

24 **MR. MARSCHKE (by Telephone):** Left some
25 open, yeah. Only basically partially

1 resolved. I think that's the wording we used.

2 **MS. MUNN:** And those six that are
3 transferred, were they transferred to PROC-
4 0090?

5 **MR. HINNEFELD:** No, they're not, these are,
6 I think anything transferred out of OTIB-0004
7 would probably have been transferred to global
8 issues.

9 **MR. MARSCHKE (by Telephone):** The only one
10 that I got being transferred in the first set
11 was from IG-0001.

12 **MS. MUNN:** Okay. There was one, correct?
13 (no response)

14 **MR. HINNEFELD:** I keep looking through the
15 OTIBs before I go to the procedures because of
16 the way the documents are sorted here. I want
17 to get through all the OTIBs first.

18 There's one finding in abeyance for
19 OTIB-0007. OTIB-0007, I believe, must have
20 been cancelled.

21 **MR. MARSCHKE (by Telephone):** I don't show
22 OTIB-0007 being in the, at least not in the
23 first set.

24 **MR. HINNEFELD:** Not the first set.

25 **MR. MARSCHKE (by Telephone):** I don't see

1 that being as one in the first set that was
2 done in the first set.

3 **MS. MUNN:** Well, OTIB-0007 has everything
4 closed on it and found out that Nancy gave us
5 her status. There were four findings and four
6 closures, only one of the original revision,
7 rev. 00.

8 **MR. MARSCHKE (by Telephone):** I can run
9 through and tell you which ones I have in
10 abeyance if that would help, Stu.

11 **MR. HINNEFELD:** Yeah, if you can just maybe
12 give the procedure number. Let's go through
13 OTIBs first.

14 **MR. MARSCHKE (by Telephone):** I have OTIB-
15 0001.

16 **MR. HINNEFELD:** That has not been revised.

17 **MR. MARSCHKE (by Telephone):** OTIB-0002,
18 rev. 1.

19 **MR. HINNEFELD:** That has been revised.
20 There's now a rev. 2, but I don't know if you
21 guys have looked at that or not.

22 **MR. MARSCHKE (by Telephone):** I can find
23 out. What did I say, OTIB --

24 **MR. HINNEFELD:** OTIB-0002. You said OTIB-
25 0002.

1 **MR. MARSCHKE (by Telephone):** Yeah, we're
2 supposed to have looked at that.

3 **MR. HINNEFELD:** You looked at rev. 2 so
4 that's probably in the situation then where
5 it's, the finding from rev. 1 wasn't
6 completely closed.

7 So the next document then?

8 **MR. MARSCHKE (by Telephone):** The next
9 document was OTIB-0004, which we've already
10 talked about. OTIB-0008, which you said
11 there's a new revision on.

12 **MR. HINNEFELD:** Yes, OTIB-0008 has been
13 revised.

14 **MR. MARSCHKE (by Telephone):** OTIB-0010.

15 **MR. HINNEFELD:** That has been revised.

16 **MR. MARSCHKE (by Telephone):** And PROC-0006,
17 and you said that one was revised as well.

18 **MR. HINNEFELD:** Yes, PROC-0006 was revised.

19 **MR. MARSCHKE (by Telephone):** And then the
20 only other ones we had were OCAS, IG-0001, IG-
21 0002.

22 **MR. HINNEFELD:** Well, two has not been
23 revised. One has been revised but re-looked
24 at. And those were determined to remain in
25 abeyance.

1 **MR. MARSCHKE (by Telephone):** And then the
2 TIB-0002.

3 **MR. HINNEFELD:** OCAS TIB-0002?

4 **MR. MARSCHKE (by Telephone):** Yes. There
5 were two low priority comments, issues.

6 **MR. HINNEFELD:** Rev. zero, that's not been
7 revised.

8 Eight and ten were revised. I think
9 those should resolve those findings if I'm not
10 mistaken.

11 **MR. MARSCHKE:** Okay, we'll take a look at
12 eight and ten.

13 **MR. HINNEFELD:** And I think the PROC-0006
14 revision should, because the finding relates
15 to Appendix B, and Appendix B was removed.
16 That's the DCFs, and it relates to the issue
17 on the IG-0001 DCFs. And since those DCFs
18 exist in IG-0001, we did figure there was no
19 need to have them in PROC-0006 as well so we
20 just took them out.

21 **MR. MARSCHKE (by Telephone):** Right, that
22 would make sense. So we'll take a look at
23 those three for definite and maybe we'll be
24 able to remove some of these or change some of
25 these in abeyance ones to closed.

1 **MS. MUNN:** That would be wonderful and much
2 appreciated.

3 **OVERVIEW OF OPEN ITEMS FROM SECOND SET**

4 I'm going to ask the work group
5 whether we have the strength and energy to
6 even begin to address the second set of items
7 and ask for a report on where we are with the
8 third set. I'm not certain how and when we
9 can address the third set. We have a lot of
10 open items in the second set. I don't have
11 them broken out on my screen as to set right
12 now.

13 **MS. ADAMS:** There should be 37 open ones.

14 **MS. MUNN:** Do we want to begin trying to do
15 something with those or are we all brain dead
16 to the point where we really and truly need to
17 postpone with fresh eyes to undertake the
18 second set? I'll leave it to the discretion
19 of the group. I personally --

20 **DR. ZIEMER:** Do we have the matrix on the
21 second set?

22 **MS. MUNN:** We have the matrix populated. I
23 don't believe we have the matrix populated on
24 the third set. Am I correct?

25 (no response)

1 **MS. MUNN:** Steve, can you give us an update
2 on where we are with the second set and third
3 set?

4 **MR. MARSCHKE (by Telephone):** The second
5 set, I'm just looking at it now. Basically,
6 we have, the ones that all are open it appears
7 like they were, we have findings and NIOSH
8 initial responses, but they were never
9 discussed in the working group, and that's why
10 they remain -- oops, there are some of them
11 that were discussed in the --

12 **MS. MUNN:** Yeah, we picked, they were sort
13 of selected, some of them were selected by
14 reason of pressing requests for action on them
15 in order to move forward in other things, but
16 we've not addressed them as a group.

17 **MR. MARSCHKE (by Telephone):** Right. So I
18 mean, the 37 that are open in the second set
19 are, I guess they're ready to be discussed
20 whenever, because we have the finding. We
21 have the NIOSH response and so I guess
22 whenever we want to sit down and discuss them,
23 we can work our way through them.

24 **MS. MUNN:** We do have a fully populated
25 database.

1 **MR. MARSCHKE (by Telephone):** Yes.

2 **MS. MUNN:** And, but I have not even
3 attempted to begin the third set. Is that
4 populated fully?

5 **MR. MARSCHKE (by Telephone):** Hang on just a
6 second. I do not believe -- well, let me
7 check before I --

8 **MR. HINNEFELD:** I don't believe we've
9 entered our initial responses.

10 **MR. MARSCHKE (by Telephone):** That's what I
11 was going to say, but I didn't want to be
12 wrong again. I'm tired of being wrong.

13 **MS. MUNN:** I didn't think we had started to
14 address them.

15 **MR. MARSCHKE (by Telephone):** Yes, all 145
16 of those are shown as being open. Well, wait
17 a minute. Yeah, we really don't have the
18 NIOSH responses to those.

19 **MS. MUNN:** We did have some NIOSH responses
20 ready. Weren't they made but just not
21 populated yet?

22 **MR. HINNEFELD:** I don't recall we provided
23 them on the third set.

24 **MS. MUNN:** Okay.

25 **MR. HINNEFELD:** On the second set we have.

1 **MS. MUNN:** Yeah, I knew that the second set
2 was done, but I had thought that there had
3 been some work done on the third set. All we
4 have is just the third set empty?

5 **MR. MARSCHKE (by Telephone):** That's what
6 I'm showing, Wanda.

7 **MS. MUNN:** Okay, is there any probability
8 that any of those are going to be populated
9 prior to our September meeting?

10 **MR. HINNEFELD:** I don't know.

11 **MS. MUNN:** We'll have more than we can
12 handle to begin to address the second set
13 anyway.

14 **MR. HINNEFELD:** We may be able to populate
15 some but not all. I'm a little hard pressed
16 here to sort out where we are in terms of
17 other things that are going on --

18 **MS. MUNN:** I understand that.

19 **MR. HINNEFELD:** -- we're asking our
20 contractor to do.

21 **MS. MUNN:** Right. Could we request that you
22 do take a look at where we are on that? And
23 it would not be the expectation from here
24 certainly that we populate that third set for
25 the September meeting, but if we at the

1 September meeting had some idea where and when
2 we were going to begin to look at that, it
3 would be helpful. The current hope is that
4 after we have addressed what we've already
5 spoken about at the September meeting, that we
6 will also begin to address the second set. We
7 have the database populated. The question
8 before us really is shall we do with the
9 second set what we've just done with PROC-0090
10 which is start through those procedures as
11 they appear on our screen and just plow
12 through them one at a time rather than making
13 any attempt to prioritize them since, so far
14 as I know right now, we have no outstanding
15 concerns from any quarter with respect to one
16 given procedure that's holding something up.
17 If someone's aware of such a thing, let me
18 know, otherwise we'll work on the premise that
19 we'll do what we can in September and at a
20 minimum hope to begin to address the second
21 set when we finish up our prior work. Any
22 problems with that?

23 **DR. ZIEMER:** Sounds good.

24 **MS. MUNN:** Any thoughts or instructions for
25 the good of the order?

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(no response)

MS. MUNN: If not, I think we all need to
take a deep breath and declare ourself
adjourned.

(Whereupon, the meeting was adjourned at
4:20 p.m.)

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CERTIFICATE OF COURT REPORTER**STATE OF GEORGIA****COUNTY OF FULTON**

I, Steven Ray Green, Certified Merit Court Reporter, do hereby certify that I reported the above and foregoing on the day of July 21, 2008; and it is a true and accurate transcript of the testimony captioned herein.

I further certify that I am neither kin nor counsel to any of the parties herein, nor have any interest in the cause named herein.

WITNESS my hand and official seal this the 10th day of March, 2009.

STEVEN RAY GREEN, CCR, CVR-CM, PNSC**CERTIFIED MERIT COURT REPORTER****CERTIFICATE NUMBER: A-2102**